Open Source Used In Data Center Network Manager 11.5(1)

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6f2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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* /opt/cola/permits/1081901175_1654022873.931922/0/jboss-ejb-client-1.0-16-final-sources-1.jar/org/jboss/ejb/client/AttachmentKeys.java
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1.13 jasper 1.900.1 33.el7

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  jar/com/vmware/vim25/ws/ApacheTrustSelfSigned.java
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jar/com/vmware/vim25/AlarmCreatedEvent.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/ClockSkew.java
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 * This code is auto generated using yavijava_generator
 * https://github.com/yavijava/yavijava_generator
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/DistributedVirtualSwitchHostInfrastructureTrafficClass.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/HostVirtualNicManagerNicType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VirtualMachineFileLayoutExFileType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VirtualMachineTicketType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VmFaultToleranceConfigIssueReasonForIssue.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/PerformanceManagerUnit.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/VirtualMachineGuestOsIdentifier.java

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Found in path(s):
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineConfigSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineConfigInfo.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineFileLayoutExFileInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VMwareIpfixConfig.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineVMCIDevice.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineDatastoreInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineRuntimeInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/DatastoreInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualVideoCardOption.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineVideoCard.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualDisk.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineBootOptions.java

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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/ws/ClientCreator.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/ClusterVmComponentProtectionSettingsStorageVmReaction.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/BatchResultResult.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/DistributedVirtualSwitchNetworkResourceControlVersion.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/CannotEnableVmcpForClusterReason.java

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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/GuestFileManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostCacheConfigurationManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/IscsiManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/VirtualMachineDeviceManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostEsxAgentHostManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/GuestProcessManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/StoragePod.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/GuestOperationsManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/GuestAuthManager.java

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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanHostDiskResult.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanClusterConfigInfoHostDefaultInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanHostConfigInfo.java
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/**

 * The returned XML data is in the following format:
 * <pre>
 * {@code
 * <?xml version="1.0" encoding="UTF-8" ?>
 * <definitions targetNamespace="urn:vim25Service"
 * xmlns="http://schemas.xmlsoap.org/wsdl/
 * xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/
 * xmlns:interface="urn:vim25"
 * >
 * <import location="vim.wsdll" namespace="urn:vim25" />
 * <service name="VimService">
 * <port binding="interface:VimBinding" name="VimPort">
 * <soap:address location="https://localhost/sdk/vimService" />
 * </port>
 * </service>
 * </definitions>
 * }
 * </pre>
 */

* Utility class for checking the version of VISDK the server supports.
* @author Steve JIN (sjin@vmware.com)
*/

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*/opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostNetworkSystem.java
*/opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/PropertyFilter.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ProfileManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ServiceInstance.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/EventManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ClusterProfileManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostProfile.java
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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/util/MorUtil.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/View.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostLocalAccountManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/InventoryView.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostPatchManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ScheduledTask.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostServiceSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/PropertyCollectorUtil.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostFirewallSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/OvfManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/PropertyCollector.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/ContainerView.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostSnmpSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostSnmpSystem.java

jar/com/vmware/vim25/mo/ProfileComplianceManager.java
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  jar/com/vmware/vim25/mo/ManagedEntity.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mo/ComputeResource.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
  jar/com/vmware/vim25/mo/VirtualMachineProvisioningChecker.java
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  jar/com/vmware/vim25/mo/HostDatastoreBrowser.java
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* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/HostActiveDirectoryInfo.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/HostActiveDirectorySpec.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/HostConfigManager.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/ConfigTarget.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/StorageIORMConfigOption.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/HostNtpConfig.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/StorageDrsPodConfigInfo.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/VMwareDVSConfigSpec.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/HostRuntimeInfoNetworkRuntimeInfo.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/HostNasVolume.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/DistributedVirtualPortgroupInfo.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/VirtualDiskRawDiskMappingVer1BackingInfo.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/HealthStatusChangedEvent.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/HostInternetScsiHbaIPProperties.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/StorageDrsIoLoadBalanceConfig.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/OpaqueNetworkTargetInfo.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/DVSCConfigInfo.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/VMwareDVSCConfigInfo.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vm25/DVSDruntimeInfo.java
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jar/com/vmware/vim25/GatewayNotReachable.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VsanNewPolicyBatch.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/mo/GuestAliasManager.java
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jar/com/vmware/vim25/mo/CertificateManager.java
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jar/com/vmware/vim25/VrpResourceAllocationInfo.java
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jar/com/vmware/vim25/VirtualEthernetCardResourceAllocation.java
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jar/com/vmware/vim25/VirtualResourcePoolSpec.java
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jar/com/vmware/vim25/HostDistributedVirtualSwitchManagerNetworkResourcePoolKey.java
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jar/com/vmware/vim/rest/sample/RestAppDemo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/ISCSITargetCHAPProfile.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VirtualizationManagerEntityType.java
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jar/com/vmware/vim25/ArrayOfDatastoreEventArgument.java
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jar/com/vmware/vim25/ArrayOfLicenseAssignmentManagerEntityFeaturePair.java
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Found in path(s):
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/ws/SoapFaultException.java
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Found in path(s):
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/VsanUpgradeSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostAccessManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/GuestWindowsRegistryManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/OverheadMemoryManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostCertificateManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/VRPResourceManager.java

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Found in path(s):
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/DigestNotSupported.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/CannotComputeFTCompatibleHosts.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/CannotEnableVmcpForCluster.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/FilterInUse.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/CannotDisableDrsOnClusterManagedByVDC.java

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Found in path(s):
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/Datacenter.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/IpPoolManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostSystem.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/HostProfileManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/DistributedVirtualPortgroup.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/DistributedVirtualSwitch.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/SessionManager.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/mo/DistributedVirtualSwitchManager.java

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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/DvsHostInfrastructureTrafficResourceAllocation.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/DvsVmVnicResourceAllocation.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostPnicNetworkResourceInfo.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HbrManagerVmReplicationCapability.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VRPEditSpec.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/DvsVnicAllocatedResource.java

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* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VsanUpgradeSystemUpgradeHistoryDiskGroupOpType.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/ReplicationVmInProgressFaultActivity.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/IncompatibleHostForVmReplicationIncompatibleReason.java
* /opt/cola/permits/1110675874_1606843708.75/0/yavijava-6-0-05-sources-
jar/com/vmware/vim25/VirtualDiskSharing.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostInternetScsiHbaScsiIpv6AddressAddressConfigurationType.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/HostProtocolEndpointPEType.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/VirtualMachineVMCIDeviceAction.java
* /opt/cola/permits/110675874_1606843708.75/0/yavijava-6-0-05-sources-jar/com/vmware/vim25/PlacementAffinityRuleRuleType.java

1.15 agroal-pool 1.1

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* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/wrapper/StatementWrapper.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/ConnectionHandler.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/DataSourceProvider.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/util/XAConnectionAdaptor.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/util/ListenerHelper.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/wrapper/PreparedStatementWrapper.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/ConnectionFactory.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/util/PropertyInjector.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/wrapper/CallableStatementWrapper.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/MetricsRepository.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/util/PriorityScheduledExecutor.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/PoolPropertiesFactory.java
* /opt/cola/permits/1003070137_1646171685.53/0/agroal-pool-1-1-sources-jar/io/agroal/pool/util/AgroalSynchronizer.java
1.16 jetty-util 8.1.7.v20120910

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/*
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

/*
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

Found in path(s):
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/security/Constraint.java
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/*
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

/*
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ajax/JSONObjectConvertor.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/PatternMatcher.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/Utf8StringBuffer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/Scanner.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/preventers/SecurityProviderLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/IntrospectionUtil.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/component/FileDestroyable.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/preventers/Java2DLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/resource/BadResource.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/preventers/LDAPLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/component/Container.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/ajax/JSONDateConvertor.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/log/JavaUtilLog.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/preventers/LoginConfigurationLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/IO.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/StringUtil.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/preventers/AppContextLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/QuotedStringTokenizer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/security/CertificateUtils.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/component/Dumpable.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/UrlEncoded.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/AttributesMap.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/thread/ExecutorThreadPool.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/ArrayQueue.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/log/Log.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/StringMap.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/HostMap.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/statistic/SampleStatistic.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/resource/ResourceCollection.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/resource/JarFileResource.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/security/B64Code.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/resource/ResourceFactory.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/B64Code.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/BlockingArrayQueue.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/RolloverFileOutputStream.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/jetty/log/LoggerLog.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ajax/JSONPojoConvertorFactory.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/security/Credential.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ssl/AliasedX509ExtendedKeyManager.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ajax/JSONPojoConvertor.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ConcurrentHashSet.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/MultiException.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/LazyList.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/preventers/DriverManagerLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/log/StdErrLog.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/thread/Timeout.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/resource/URLResource.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/preventers/GCThreadLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ajax/JSONEnumConvertor.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ajax/JSON.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/log/Logger.java
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/*
* @(#)UnixCrypt.java 0.9 96/11/25
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/**
 * Utf8 Appendable abstract base class
 * 
 * This abstract class wraps a standard { @link java.lang.Appendable } and provides methods to append UTF-8
 * encoded bytes, that are converted into characters.
 * 
 * This class is stateful and up to 4 calls to { @link #append(byte) } may be needed before state a character is
 * appended to the string buffer.
 * 
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
 * inspired by
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 * 
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/**

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*/
1.17 netty-codec 4.1.53.Final

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jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* *
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*
*/

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* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java
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* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-jar/io/netty/handler/codec/ProtobufEncoderNano.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-jar/io/netty/handler/codec/protobuf/HeaderUtil.java
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/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/"">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
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* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
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jar/io/netty/handler/codec/DateFormatter.java
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jar/io/netty/handler/codec/DatagramPacketEncoder.java
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jar/io/netty/handler/codec/string/LineSeparator.java
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jar/io/netty/handler/codec/string/LineEncoder.java
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jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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  jar/io/netty/handler/codec/compression/Bzip2Decoder.java
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  jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
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  jar/io/netty/handler/codec/DecoderResultProvider.java
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  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
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  jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/StringDecoder.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/serialization/ClassResolvers.java
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  jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
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* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/compression/Snappy.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/CorruptedFrameException.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/serialization/package-info.java
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  jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-
  jar/io/netty/handler/codec/compression/ZlibDecoder.java
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  jar/io/netty/handler/codec/EncoderException.java
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  jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
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  jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
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  jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
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  jar/io/netty/handler/codec/DecoderException.java
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*/
/**
* A decoder that splits the received [\@link ByteBuf\]s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* [\@link LengthFieldBasedFrameDecoder\] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* <p>
* <h3>2 bytes length field at offset 0, do not strip header</h3>
* <p>
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
* 
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* +--------+----------------+      +--------+----------------+
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 0, strip header</h3>
* <p>
* Because we can get the length of the content by calling
* [\@link ByteBuf\#readableBytes\()], you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength  = 2
* lengthAdjustment   = 0
* </pre>
* \textit{initialBytesToStrip} = 2 (= the length of the Length field)

* BEFORE DECODE (14 bytes) \hspace{1cm} AFTER DECODE (12 bytes)

* \hspace{1cm} +--------+----------------+ \hspace{1cm} +----------------+
* | Length | Actual Content | \hspace{1cm} | Actual Content |
* | 0x000C | "HELLO, WORLD" | \hspace{1cm} | "HELLO, WORLD" |
* \hspace{1cm} +--------+----------------+ \hspace{1cm} +----------------+
* \hspace{1cm} </pre>

* \texttt{lengthFieldOffset} = 0
* \texttt{lengthFieldLength} = 2
* \texttt{lengthAdjustment} = -2 (= the length of the Length field)
* \texttt{initialBytesToStrip} = 0

* BEFORE DECODE (14 bytes) \hspace{1cm} AFTER DECODE (14 bytes)

* \hspace{1cm} +--------+----------------+ \hspace{1cm} +--------+----------------+
* | Length | Actual Content | \hspace{1cm} | Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | \hspace{1cm} | 0x000E | "HELLO, WORLD" |
* \hspace{1cm} +--------+----------------+ \hspace{1cm} +--------+----------------+
* \hspace{1cm} </pre>

* \texttt{lengthFieldOffset} = 2 (= the length of Header 1)
* \texttt{lengthFieldLength} = 3
* \texttt{lengthAdjustment} = 0
* \texttt{initialBytesToStrip} = 0

* BEFORE DECODE (17 bytes) \hspace{1cm} AFTER DECODE (17 bytes)

* \hspace{1cm} +--------+----------+----------+----------------+ \hspace{1cm} +--------+----------+----------+----------------+
* | Header 1 | Length  | Actual Content | \hspace{1cm} | Header 1 | Length  | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" | \hspace{1cm} | 0xCAFE | 0x00000C | "HELLO, WORLD" |
This is an advanced example that shows the case where there is an extra
header between the length field and the message body. You have to specify a
positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
header into the frame length calculation.

```
lengthFieldOffset   = 0
lengthFieldLength   = 3
<b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
initialBytesToStrip = 0
```

BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
```
| Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
| 0x00000C | 0xCAFE | "HELLO, WORLD" |      | 0x00000C | 0xCAFE | "HELLO, WORLD" |
```

This is a combination of all the examples above. There are the prepended
header before the length field and the extra header after the length field.
The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra
header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero
`<tt>initialBytesToStrip</tt>` to strip the length field and the prepended
header from the frame. If you don't want to strip the prepended header, you
could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
<b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
<b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
```

BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
```
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
```

This is a combination of all the examples above. There are the prepended
header before the length field and the extra header after the length field.
```
Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

```
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-------------------------------+-------------------------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-------------------------------+-------------------------------+
* </pre>
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/cola/permits/1104729131_1604648967.07/0/netty-codec-4-1-53-final-sources-jar/io.netty.handler.codec/LengthFieldBasedFrameDecoder.java

1.18 picketlink-api 2.5.5.sp12

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* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/authentication/BaseAuthenticator.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/IdentityConfigurationEvent.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/authentication/web/support/RequestCache.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/authentication/Authenticator.java
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* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/authentication/web/FormAuthenticationScheme.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/authentication/event/PreLoggedOutEvent.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-
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* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/annotations/Authc.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/annotations/Basic.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/AuthenticationConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/FilteringMode.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/OutboundRedirectConfiguration.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/SecurityConfigurationChildBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/event/SecurityConfigurationEvent.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/AuthenticationConfiguration.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/DigestAuthenticationConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/PathConfigurationChildBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/http/MethodNotAllowedException.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/AuthorizationConfiguration.java
* /opt/cola/permits/1003069610_1654022936.015121_0/picketlink-api-2-5-5-sp12-sources-1.jar/org/picketlink/config/http/DigestAuthenticationConfigurationBuilder.java
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* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/IdentityBeanConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/FormAuthenticationConfigurationBuilder.java
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* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/BasicAuthenticationConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/annotations/Path.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/AuthenticationConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/AuthorizationConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/SecurityConfiguration.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/SecurityConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/AuthorizationConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/InboundHeaderConfiguration.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/CustomAuthenticationConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/SecurityConfigurationChildBuilder.java
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* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/annotations/Digest.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/CustomAuthenticationConfiguration.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/InboundHeaderConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/config/http/AuthenticationMethodConfigurationBuilder.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/authentication/web/support/HTTPDigestUtil.java
* /opt/cola/permits/1003069610_1654022936.015121/0/picketlink-api-2-5-5-sp12-sources-1-jar/org/picketlink/authorization/util/AuthorizationUtil.java
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1.19 cxrf-rt-security-saml 3.2.5-jbossorg-1

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1.20 websocket-api 9.3.9.v20160517
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1.21 orc 0.4.26-1.el7

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* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/mock/web/MockMultipartFile.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/test/context/transaction/AfterTransaction.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/test/web/ModelAndViewAssert.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/mock/web/portlet/MockCacheControl.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/mock/web/portlet/MockPortletPreferences.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/mock/web/portlet/MockClientDataRequest.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/mock/web/RunBeforeTestMethodCallbacks.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/mock/web/portlet/MockPortletURL.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/mock/web/MockHttpSession.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/test/annotation/ExpectedException.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/mock/web/MockPortletRequest.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/test/context/junit4/AbstractTransactionalJUnit4SpringContextTests.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/mock/jndi/SimpleNamingContextBuilder.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/test/annotation/DirtiesContext.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/mock/web/MockServletContext.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/test/annotation/ExpectedException.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/mock/web/MockActionRequest.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-jar/org/springframework/framework/mock/web/MockPortletRequest.java
jar/org/springframework/mock/web/HeaderValueHolder.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/mock/web/portlet/MockPortletSession.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/annotation/ProfileValueUtils.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/mock/web/portlet/MockPortletResponse.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/context/support/DirtyContextTestExecutionListener.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/mock/web/portlet/MockPortletConfig.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/mock/web/portlet/MockPortalContext.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/mock/web/portlet/MockMultipartActionRequest.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/mock/web/MockServletConfig.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/mock/web/MockRequestDispatcher.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/context/support/AbstractContextLoader.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/mock/web/MockHttpServletResponse.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/context/testng/AbstractTestNGSpringContextTests.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/jdbc/JdbcTestUtils.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/context/testng/SpringFailOnTimeout.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/context/junit4/SpringJUnit4ClassRunner.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/context/junit4/statements/SpringFailOnTimeout.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/context/junit4/statements/RunBeforeTestClassCallbacks.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/context/junit4/statements/RunAfterTestClassCallbacks.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/context/support/AbstractTestExecutionListener.java
* /opt/cola/permits/110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1-
jar/org/springframework/test/context/support/DirtiesContextTestExecutionListener.java
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Found in path(s):
13.1 kbd 1.15.5-15.el7

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```
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1.jar/src/framework/test/context/support/GenericPropertiesContextLoader.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1.jar/src/framework/test/jpa/OrmXmlOverridingShadowingClassLoader.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1.jar/src/framework/test/annotation/SystemProfileValueSource.java
* /opt/cola/permits/1110676691_1606844023.19/0/spring-test-3-0-0-release-sources-1.jar/src/framework/test/ConditionalTestCase.java
```

---

```
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```

---
PC Screen (console) Fonts - psf1 header

0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2 byte 2256 characters, Unicode index
>2 byte 3512 characters, Unicode index
>2 byte 4256 characters, Unicode level 2 index
>2 byte 5512 characters, Unicode level 2 index
>3 byte 8x%d

PC Screen (console) Fonts - psf2 header

0 lelong 0x864ab572 psf2 screen font data
>12 lelong 1 with Unicode index
>28 lelong x 0x00000000 256 glyphs
>32 lelong 0 0x00000000 256 glyphs

---

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getfd.c getkeycodes.c getunimap.c kbd_mode.c loadunimap.c
psfontop.c psfxtable.c resizecons.c screendump.c setkeycodes.c
setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
chtvt.1 dealloctv.1 kbd_mode.1 setleds.1 setmetamode.1
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1.32 perl-filter 1.49-3.el7

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---
abstract: 'Source Filters'
author:
  - 'Paul Marquess <pmqs@cpan.org>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120630'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Filter
no_index:
directory:
  - t
  - inc
recommends:
  Filter::Simple: 0.88
  Filter::Simple::Compile: 0.02
requires: {}
resources:
  license: http://dev.perl.org/licenses/
  repository: https://github.com/rurban/Filter
  version: 1.49

Found in path(s):
* /opt/cola/permits/1000849030_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/Filter-1.49.tar.gz-cosi-expand-archive-iNJ8NX82/Filter-1.49/META.yml
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* /opt/cola/permits/1000849030_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/perl-Filter.spec
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Found in path(s):
* /opt/cola/permits/1000849030_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/Filter-1.49.tar.gz-cosi-expand-archive-iNJ8NX82/Filter-1.49/Call/Call.pm
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=head1 NAME

perlfilter - Source Filters

=head1 DESCRIPTION

This article is about a little-known feature of Perl called
I<source filters>. Source filters alter the program text of a module
before Perl sees it, much as a C preprocessor alters the source text of
a C program before the compiler sees it. This article tells you more
about what source filters are, how they work, and how to write your
own.

The original purpose of source filters was to let you encrypt your
program source to prevent casual piracy. This isn't all they can do, as
you'll soon learn. But first, the basics.

=head1 CONCEPTS

Before the Perl interpreter can execute a Perl script, it must first
read it from a file into memory for parsing and compilation. If that
script itself includes other scripts with a C<use> or C<require>
statement, then each of those scripts will have to be read from their
respective files as well.

Now think of each logical connection between the Perl parser and an
individual file as a I<source stream>. A source stream is created when
the Perl parser opens a file, it continues to exist as the source code
is read into memory, and it is destroyed when Perl is finished parsing
the file. If the parser encounters a C<require> or C<use> statement in
a source stream, a new and distinct stream is created just for that
file.

The diagram below represents a single source stream, with the flow of
source from a Perl script file on the left into the Perl parser on the
right. This is how Perl normally operates.
file ------> parser

There are two important points to remember:

=item 1.

Although there can be any number of source streams in existence at any given time, only one will be active.

=item 2.

Every source stream is associated with only one file.

A source filter is a special kind of Perl module that intercepts and modifies a source stream before it reaches the parser. A source filter changes our diagram like this:

file ----> filter ----> parser

If that doesn't make much sense, consider the analogy of a command pipeline. Say you have a shell script stored in the compressed file I<trial.gz>. The simple pipeline command below runs the script without needing to create a temporary file to hold the uncompressed file.

    gunzip -c trial.gz | sh

In this case, the data flow from the pipeline can be represented as follows:

    trial.gz ----> gunzip ----> sh

With source filters, you can store the text of your script compressed and use a source filter to uncompress it for Perl's parser:

    compressed       gunzip
    Perl program ---> source filter ---> parser

=head1 USING FILTERS

So how do you use a source filter in a Perl script? Above, I said that a source filter is just a special kind of module. Like all Perl modules, a source filter is invoked with a use statement.

Say you want to pass your Perl source through the C preprocessor before execution. As it happens, the source filters distribution comes with a C
preprocessor filter module called Filter::cpp.

Below is an example program, C<cpp_test>, which makes use of this filter. Line numbers have been added to allow specific lines to be referenced easily.

```
1: use Filter::cpp;
2: #define TRUE 1
3: $a = TRUE;
4: print "a = $a\n";
```

When you execute this script, Perl creates a source stream for the file. Before the parser processes any of the lines from the file, the source stream looks like this:

```
cpp_test ---------> parser
```

Line 1, C<use Filter::cpp>, includes and installs the C<cpp> filter module. All source filters work this way. The use statement is compiled and executed at compile time, before any more of the file is read, and it attaches the cpp filter to the source stream behind the scenes. Now the data flow looks like this:

```
cpp_test ----> cpp filter ----> parser
```

As the parser reads the second and subsequent lines from the source stream, it feeds those lines through the C<cpp> source filter before processing them. The C<cpp> filter simply passes each line through the real C preprocessor. The output from the C preprocessor is then inserted back into the source stream by the filter.

```
  -> cpp --.
    |    |
    |    |<`
  cpp_test ----> cpp filter ----> parser
```

The parser then sees the following code:

```
use Filter::cpp;
$a = 1;
print "a = $a\n";
```

Let’s consider what happens when the filtered code includes another module with use:

```
1: use Filter::cpp;
2: #define TRUE 1
```
3: use Fred;
4: $a = TRUE;
5: print "a = $a\n";

The C<cpp> filter does not apply to the text of the Fred module, only to the text of the file that used it (C<cpp_test>). Although the use statement on line 3 will pass through the cpp filter, the module that gets included (C<Fred>) will not. The source streams look like this after line 3 has been parsed and before line 4 is parsed:

```
cpp_test ---> cpp filter ---> parser (INACTIVE)
  Fred.pm ----> parser
```

As you can see, a new stream has been created for reading the source from C<Fred.pm>. This stream will remain active until all of C<Fred.pm> has been parsed. The source stream for C<cpp_test> will still exist, but is inactive. Once the parser has finished reading Fred.pm, the source stream associated with it will be destroyed. The source stream for C<cpp_test> then becomes active again and the parser reads line 4 and subsequent lines from C<cpp_test>.

You can use more than one source filter on a single file. Similarly, you can reuse the same filter in as many files as you like.

For example, if you have a uuencoded and compressed source file, it is possible to stack a uudecode filter and an uncompression filter like this:

```
use Filter::uudecode; use Filter::uncompress;
```

```
M'XL(".H<US4''V9IF%L')Q;>7/;1I_>_J3=&E=%:F*I"T?22Q/
M6]9*<IQCO*XFT"0[PL%Y+IG?WN^ZYN-$J].JE$.20/?K=_.>
...
```

Once the first line has been processed, the flow will look like this:

```
file ---> uudecode ---> uncompress ---> parser
  filter          filter
```

Data flows through filters in the same order they appear in the source file. The uudecode filter appeared before the uncompress filter, so the source file will be uuencoded before it's uncompressed.

=head1 WRITING A SOURCE FILTER

There are three ways to write your own source filter. You can write it in C, use an external program as a filter, or write the filter in Perl. I won't cover the first two in any great detail, so I'll get them out
of the way first. Writing the filter in Perl is most convenient, so I'll devote the most space to it.

=head1 WRITING A SOURCE FILTER IN C

The first of the three available techniques is to write the filter completely in C. The external module you create interfaces directly with the source filter hooks provided by Perl.

The advantage of this technique is that you have complete control over the implementation of your filter. The big disadvantage is the increased complexity required to write the filter - not only do you need to understand the source filter hooks, but you also need a reasonable knowledge of Perl guts. One of the few times it is worth going to this trouble is when writing a source scrambler. The C<decrypt> filter (which unscrambles the source before Perl parses it) included with the source filter distribution is an example of a C source filter (see Decryption Filters, below).

=item B<Decryption Filters>

All decryption filters work on the principle of "security through obscurity." Regardless of how well you write a decryption filter and how strong your encryption algorithm is, anyone determined enough can retrieve the original source code. The reason is quite simple - once the decryption filter has decrypted the source back to its original form, fragments of it will be stored in the computer's memory as Perl parses it. The source might only be in memory for a short period of time, but anyone possessing a debugger, skill, and lots of patience can eventually reconstruct your program.

That said, there are a number of steps that can be taken to make life difficult for the potential cracker. The most important: Write your decryption filter in C and statically link the decryption module into the Perl binary. For further tips to make life difficult for the potential cracker, see the file I<decrypt.pm> in the source filters distribution.

=back

=head1 CREATING A SOURCE FILTER AS A SEPARATE EXECUTABLE

An alternative to writing the filter in C is to create a separate executable in the language of your choice. The separate executable reads from standard input, does whatever processing is necessary, and
writes the filtered data to standard output. C<Filter::cpp> is an example of a source filter implemented as a separate executable - the executable is the C preprocessor bundled with your C compiler.

The source filter distribution includes two modules that simplify this task: C<Filter::exec> and C<Filter::sh>. Both allow you to run any external executable. Both use a coprocess to control the flow of data into and out of the external executable. (For details on coprocesses, see Stephens, W.R., "Advanced Programming in the UNIX Environment." Addison-Wesley, ISBN 0-210-56317-7, pages 441-445.) The difference between them is that C<Filter::exec> spawns the external command directly, while C<Filter::sh> spawns a shell to execute the external command. (Unix uses the Bourne shell; NT uses the cmd shell.) Spawning a shell allows you to make use of the shell metacharacters and redirection facilities.

Here is an example script that uses C<Filter::sh>:

```perl
use Filter::sh 'tr XYZ PQR';
$a = 1;
print "XYZ a = $a\n";
```

The output you'll get when the script is executed:

```
PQR a = 1
```

Writing a source filter as a separate executable works fine, but a small performance penalty is incurred. For example, if you execute the small example above, a separate subprocess will be created to run the Unix C<tr> command. Each use of the filter requires its own subprocess. If creating subprocesses is expensive on your system, you might want to consider one of the other options for creating source filters.

=head1 WRITING A SOURCE FILTER IN PERL

The easiest and most portable option available for creating your own source filter is to write it completely in Perl. To distinguish this from the previous two techniques, I'll call it a Perl source filter.

To help understand how to write a Perl source filter we need an example to study. Here is a complete source filter that performs rot13 decoding. (Rot13 is a very simple encryption scheme used in Usenet postings to hide the contents of offensive posts. It moves every letter forward thirteen places, so that A becomes N, B becomes O, and Z becomes M.)

```perl
package Rot13;
```
use Filter::Util::Call;

sub import {
    my ($type) = @_;
    my ($ref) = [];
    filter_add(bless $ref);
}

sub filter {
    my ($self) = @_;     
    my ($status);

    tr/n-za-mN-ZA-M/a-zA-Z/
    if ($status = filter_read()) > 0;
    $status;
}

1;

All Perl source filters are implemented as Perl classes and have the same basic structure as the example above.

First, we include the C<Filter::Util::Call> module, which exports a number of functions into your filter's namespace. The filter shown above uses two of these functions, C<filter_add()> and C<filter_read()>.

Next, we create the filter object and associate it with the source stream by defining the C<import> function. If you know Perl well enough, you know that C<import> is called automatically every time a module is included with a use statement. This makes C<import> the ideal place to both create and install a filter object.

In the example filter, the object (C<$ref> is blessed just like any other Perl object. Our example uses an anonymous array, but this isn't a requirement. Because this example doesn't need to store any context information, we could have used a scalar or hash reference just as well. The next section demonstrates context data.

The association between the filter object and the source stream is made with the C<filter_add()> function. This takes a filter object as a parameter (C<$ref> in this case) and installs it in the source stream.

Finally, there is the code that actually does the filtering. For this type of Perl source filter, all the filtering is done in a method called C<filter()> . (It is also possible to write a Perl source filter using a closure. See the C<Filter::Util::Call> manual page for more
details.) It's called every time the Perl parser needs another line of source to process. The C<filter()> method, in turn, reads lines from the source stream using the C<filter_read()> function.

If a line was available from the source stream, C<filter_read()> returns a status value greater than zero and appends the line to C<$_>. A status value of zero indicates end-of-file, less than zero means an error. The filter function itself is expected to return its status in the same way, and put the filtered line it wants written to the source stream in C<$_>. The use of C<$_> accounts for the brevity of most Perl source filters.

In order to make use of the rot13 filter we need some way of encoding the source file in rot13 format. The script below, C<mkrot13>, does just that.

die "usage mkrot13 filename
" unless @ARGV;
my $in = $ARGV[0];
my $out = "$in.tmp"
open(IN, "<$in") or die "Cannot open file $in: $!
";
open(OUT,">$out") or die "Cannot open file $out: $!
";

print OUT "use Rot13;
";
while (<IN>) {
    tr/a-zA-Z/n-za-mN-ZA-M/;
    print OUT;
}

close IN;
close OUT;
unlink $in;
rename $out, $in;

If we encrypt this with C<mkrot13>:

    print " hello fred \n";

the result will be this:

    use Rot13;
    cevag "uryyb serq\a";

Running it produces this output:

    hello fred

=head1 USING CONTEXT: THE DEBUG FILTER
The rot13 example was a trivial example. Here's another demonstration that shows off a few more features.

Say you wanted to include a lot of debugging code in your Perl script during development, but you didn't want it available in the released product. Source filters offer a solution. In order to keep the example simple, let's say you wanted the debugging output to be controlled by an environment variable, C<DEBUG>. Debugging code is enabled if the variable exists, otherwise it is disabled.

Two special marker lines will bracket debugging code, like this:

```perl
## DEBUG_BEGIN
if ($year > 1999) {
    warn "Debug: millennium bug in year $year\n";
}
## DEBUG_END
```

The filter ensures that Perl parses the code between the <DEBUG_BEGIN> and C<DEBUG_END> markers only when the C<DEBUG> environment variable exists. That means that when C<DEBUG> does exist, the code above should be passed through the filter unchanged. The marker lines can also be passed through as-is, because the Perl parser will see them as comment lines. When C<DEBUG> isn't set, we need a way to disable the debug code. A simple way to achieve that is to convert the lines between the two markers into comments:

```perl
## DEBUG_BEGIN
#if ($year > 1999) {
    # warn "Debug: millennium bug in year $year\n";
    #}
## DEBUG_END
```

Here is the complete Debug filter:

```perl
package Debug;

use strict;
use warnings;
use Filter::Util::Call;

use constant TRUE => 1;
use constant FALSE => 0;

sub import {
    my ($type) = @_;
    my (%context) = (
        Enabled => defined $ENV{DEBUG},
    );
}```
sub Die {
    my ($self) = shift;
    my ($message) = shift;
    my ($line_no) = shift || $self->{LastBegin};
    die "$message at $self->{Filename} line $line_no.
    
}

sub filter {
    my ($self) = @_;  
    my ($status);
    $status = filter_read();
    ++ $self->{LineNo};

    # deal with EOF/error first
    if ($status <= 0) {
        $self->Die("DEBUG_BEGIN has no DEBUG_END")
        if $self->{InTraceBlock};
        return $status;
    }

    if ($self->{InTraceBlock}) {
        if (/\s*##\s*DEBUG_END/) {
            $self->Die("Nested DEBUG_BEGIN", $self->{LineNo})
        } elsif (/\s*##\s*DEBUG_BEGIN/) {
            $self->{InTraceBlock} = TRUE;
            $self->{LastBegin} = $self->{LineNo};
        } elsif (/\s*##\s*DEBUG_END/) {
            $self->Die("DEBUG_END has no DEBUG_BEGIN", $self->{LineNo});
        }
    }

    # comment out the debug lines when the filter is disabled
    s/^/#/ if ! $self->{Enabled};
    } elsif (/\s*##\s*DEBUG_BEGIN/) {
        $self->{InTraceBlock} = TRUE;
        $self->{LastBegin} = $self->{LineNo};
    } elsif (/\s*##\s*DEBUG_END/) {
        $self->Die("DEBUG_END has no DEBUG_BEGIN", $self->{LineNo});
    }
    return $status;
}

1;
The big difference between this filter and the previous example is the
use of context data in the filter object. The filter object is based on
a hash reference, and is used to keep various pieces of context
information between calls to the filter function. All but two of the
hash fields are used for error reporting. The first of those two,
Enabled, is used by the filter to determine whether the debugging code
should be given to the Perl parser. The second, InTraceBlock, is true
when the filter has encountered a C<DEBUG_BEGIN> line, but has not yet
encountered the following C<DEBUG_END> line.
If you ignore all the error checking that most of the code does, the
essence of the filter is as follows:
sub filter {
my ($self) = @_;
my ($status);
$status = filter_read();
# deal with EOF/error first
return $status if $status <= 0;
if ($self->{InTraceBlock}) {
if (/^\s*##\s*DEBUG_END/) {
$self->{InTraceBlock} = FALSE
}
# comment out debug lines when the filter is disabled
s/^/#/ if ! $self->{Enabled};
} elsif ( /^\s*##\s*DEBUG_BEGIN/ ) {
$self->{InTraceBlock} = TRUE;
}
return $status;
}
Be warned: just as the C-preprocessor doesn't know C, the Debug filter
doesn't know Perl. It can be fooled quite easily:
print <<EOM;
##DEBUG_BEGIN
EOM
Such things aside, you can see that a lot can be achieved with a modest
amount of code.
=head1 CONCLUSION
You now have better understanding of what a source filter is, and you
might even have a possible use for them. If you feel like playing with
source filters but need a bit of inspiration, here are some extra

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features you could add to the Debug filter.

First, an easy one. Rather than having debugging code that is all-or-nothing, it would be much more useful to be able to control which specific blocks of debugging code get included. Try extending the syntax for debug blocks to allow each to be identified. The contents of the C<DEBUG> environment variable can then be used to control which blocks get included.

Once you can identify individual blocks, try allowing them to be nested. That isn't difficult either.

Here is an interesting idea that doesn't involve the Debug filter. Currently Perl subroutines have fairly limited support for formal parameter lists. You can specify the number of parameters and their type, but you still have to manually take them out of the C<@_> array yourself. Write a source filter that allows you to have a named parameter list. Such a filter would turn this:

    sub MySub ($first, $second, @rest) {
        ...
    }

into this:

    sub MySub($$@) {
        my ($first) = shift;
        my ($second) = shift;
        my (@rest) = @_;
        ...
    }

Finally, if you feel like a real challenge, have a go at writing a full-blown Perl macro preprocessor as a source filter. Borrow the useful features from the C preprocessor and any other macro processors you know. The tricky bit will be choosing how much knowledge of Perl's syntax you want your filter to have.

=head1 THINGS TO LOOK OUT FOR

=over 5

=item Some Filters Clobber the C<DATA> Handle

Some source filters use the C<DATA> handle to read the calling program. When using these source filters you cannot rely on this handle, nor expect any particular kind of behavior when operating on it. Filters based on Filter::Util::Call (and therefore Filter::Simple) do not alter the C<DATA> filehandle.
=back

=head1 REQUIREMENTS

The Source Filters distribution is available on CPAN, in

CPAN/modules/by-module/Filter

Starting from Perl 5.8 Filter::Util::Call (the core part of the Source Filters distribution) is part of the standard Perl distribution.
Also included is a friendlier interface called Filter::Simple, by Damian Conway.

=head1 AUTHOR

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=head1 Copyrights

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No license file was found, but licenses were detected in source scan.

/*
* Filename : Call.xs
* *
* Author : Paul Marquess
* Date : 2013-03-29 09:04:42 rurban
* Version : 1.49
* *
* Copyright (c) 1995-2011 Paul Marquess. All rights reserved.
* This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
* *
*/

No license file was found, but licenses were detected in source scan.
=pod
=head1 NAME
ppport.h - Perl/Pollution/Portability version 3.16
=head1 SYNOPSIS
perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported  list unsupported API
--api-info=name    show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version 5.003. You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown

---

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by C\texttt{--list-provided}\).

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C\texttt{<static>} or global variants.

For a C\texttt{<static>} function or variable (used only in a single source file), use:

\begin{verbatim}
#define NEED_function
#define NEED_variable
\end{verbatim}

For a global function or variable (used in multiple source files), use:

\begin{verbatim}
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
\end{verbatim}

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pbyte()</td>
<td>NEED_sv_2pbyte</td>
<td>NEED_sv_2pbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_msg()</td>
<td>NEED_sv_catpvf_msg</td>
<td>NEED_sv_catpvf_msg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_msg_nocontext()</td>
<td>NEED_sv_catpvf_msg_nocontext</td>
<td>NEED_sv_catpvf_msg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<\_DPPP\_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP\_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different C<\<diff\>> program or options, using the C<\<--diff\>> option:
perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval \Sq{^RE_TRIE_MAXBUF} = -1 \Sp if $^] \Sa{5.009004 && $} \Sa{5.009005 } }

my $VERSION = 3.16;

my %opt = (
  quiet  => 0,
  diag   => 1,
  hints  => 1,
  changes => 1,
  cplusplus => 0,
  filter  => 1,
strip => 0,
version => 0,

my($ppport) = $0 =~ /\([w.]+)/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = "[ \t\]"; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.*';
my $cce = '*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(\%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
  print "This is $0 $VERSION.\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
  my($r,$v,$s) = eval { parse_version($opt{compat-version}) };#
  if ($@) {
    die "Invalid version number format: $opt{compat-version}'.\n";
  }
  die "Only Perl 5 is supported.\n" if $r != 5;
  die "Invalid version number: $opt{compat-version}'.\n" if $v >= 1000 || $s >= 1000;
  $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
  $opt{compat-version} = 5;
}
my %API = map { /(^\w+)[(\^[\^]*)\[(\^[\^]*)\]\((\^[\^]*)\)]\($(\^[\^]*)\)$/ ? { ($1 => { ($2 ? ( base => $2 ) : ()), ($3 ? ( todo => $3 ) : ()), (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()), (index($4, 'p') >= 0 ? ( provided => 1 ) : ()), (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()), }) ) : die "invalid spec: $_" } qw(AvFILL|5.004050|p AvFILL|| CLASS||n CPERLscope||p CX_CURPAD_SAVE|| CX_CURPAD_SV|| CopFILEAV|5.006000|p CopFILEGV_set|5.006000|p CopFILEGV|5.006000|p CopFILESV|5.006000|p CopFILE_set|5.006000|p CopFILE|5.006000|p CopSTASHPV_set|5.006000|p CopSTASHPV|5.006000|p CopSTASH_eq|5.006000|p CopSTASH_set|5.006000|p CopSTASH|5.006000|p CopyD|5.009002|p Copy|| CvPADLIST|| CvSTASH|| CvWEAKOUTSIDE|| DEFSV_set||p DEFSV|5.004050||p END_EXTERN_C|5.005000|p ENTER|| ERRSV|5.004050|p EXTEND|| EXTERN_C|5.005000|p F0convert||n FREETMPS|| GIMME_V|5.004000|n GIMME||n GROK_NUMERIC_RADIX|5.007002|p G_ARRAY|| G_DISCARD|| G_EVAL|| G_METHOD||p
Newx
Nullav
Nullch
Nullcv
Nullhv
Nullsv
NULLMARK

PAD_BASE_SV
PAD_CLONE_VARS
PAD_COMPNAME_FLAGS
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PAD_DUP
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
PAD_SV
PAD_SV
PERLIO_FUNCS_CAST
PERLIO_FUNCS_DECL
PERL_ABS
PERL_BCDVERSION
PERL_GCC_BRACE_GROUPS_FORBIDDEN
PERL_HASH
PERL_INT_MAX
PERL_INT_MIN
PERL_LONG_MAX
PERL_LONG_MIN
PERL_MAGIC_arylen
PERL_MAGIC_backref
PERL_MAGIC_bmi
PERL_MAGIC_collxfrm
PERL_MAGIC_dbfile
PERL_MAGIC_dbline
PERL_MAGIC_defelem
PERL_MAGIC_envelem
PERL_MAGIC_env
PERL_MAGIC_ext
PERL_MAGIC_fmem
PERL_MAGIC_glob
PERL_MAGIC_isaelem
PERL_MAGIC_isa
PERL_MAGIC_mutex|5.011000||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL||p
PERL_PV_ESCAPE_FIRSTCHAR||p
PERL_PV_ESCAPE_NOBACKSLASH||p
PERL_PV_ESCAPE_NOCLEAR||p
PERL_PV_ESCAPE_QUOTE||p
PERL_PV.Escape.RE||p
PERL_PV_ESCAPE_UNI_DETECT||p
PERL_PV_ESCAPE_UNI||p
PERL_PVPRETTY_DUMP||p
PERL_PVPRETTY_ELLIPSES||p
PERL_PVPRETTY_LTGT||p
PERL_PVPRETTY_NOCLEAR||p
PERL_PVPRETTY_QUOTE||p
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pTHX|5.006000||p
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sv_2cv
sv_2io
sv_2iuv_common
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sv_2iv
sv_2iv_flags
sv_2mortal
sv_2num
sv_2nv
sv_2pv
sv_2pv_flags
sv_2pv_nolen
sv_2pvbyte
sv_2pvbyte_nolen
sv_2pvutf8
sv_2pvutf8_nolen
sv_2pvutf8
sv_2pv
sv_2uv
sv_2uv_flags
sv_add_arena
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sv_backoff
sv_bless
sv_cat_decode
sv_catpv
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sv_mortalcopy
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sv_nolocking 5.007003
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sv_pos_b2u 5.006000
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sv_pos_u2b_midway
sv_pos_u2b 5.006000
sv_pvbyten_force 5.006000
sv_pvbyten 5.006000
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sv_pvn_force
sv_pvn_nomg 5.007003 5.005000
sv_pvn 5.005000
sv_pvutf8n_force 5.006000
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sv_pvutf8 5.006000
sv_pv 5.006000
sv_recode_to_utf8 5.007003
sv_reftype
sv_release_COW
sv_replace
sv_report_used
sv_reset
sv_rvweaken 5.006000
sv_setiv_mg 5.004050
sv_setiv
sv_setnv_mg 5.006000
sv_setnv
sv_setpv_mg 5.004050
sv_setpvf_mg_nocontext
sv_setpvf_mg 5.006000 5.004000
sv_setpvf_nocontext
sv_setpvf 5.004000
sv_setpviv_mg 5.008001
sv_setpviv
sv_setpvn_mg 5.004050
sv_setpvnf_mg_nocontext
sv_setpvnf_mg 5.006000 5.004000
sv_setpvnf_nocontext
sv_setpvnf
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ntoLOWER
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to_byte_substr
to_uni_fold
5.007003
to_uni_lower lc
5.006000
to_uni_lower
5.007003
to_uni_title lc
5.006000
to_uni_title
5.007003
to_uni_upper lc
5.006000
to_uni_upper
5.007003
to_utf8_case
5.007003
to_utf8_fold
5.007003
to_utf8_lower
5.007003
to_utf8_substr
nto_utf8_title
5.007003
to_utf8_upper
5.007003
token_free
token_getmad
tokenize_use
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ntunwind_handler_stack
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5.009005
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ntutf16_to_utf8_reversed
5.006001
utf16_to_utf8
5.006001
utf8_distance
5.006000
utf8_hop
5.006000
utf8_length
5.007001
utf8_rmg_pos_cache_update
utf8_to_bytes
5.006001
utf8_to_utf8
5.007001

yyparse|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}

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else {
  if (exists $API{$define->[0]} &amp;&amp; $define->[1] !~ /<DPPP_\(\)/) {
    my @n = find_api($define->[1]);
    push @{$depends{$define->[0]}}, @n if @n
  }
  undef $define;
}
}

$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

if ($function) {
  if (/^\)/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
}

$function = [$1, ""] if m{^DPPP_\(my_\(\w+\))\};

$replace     = $1 if m{^\s*\$rccs\s+Replace\:\s+(\w+)\s+(.+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)\s+.*\s+$rcce\s*$};
$replace{$1} = $2 if m{^\s*\$rccs\s+Replace \(\w+\) with \(\w+\)\s+$rcce\s*$};

if (m{^\s*\$rccs\s+\(\w+\)\s+depends\s+on\s+(\w+)\s+$rcce\s*$}) {
  my @deps = map { s/\s+//g; $_. } split /,/, $3;
  my $d;
  for $d (map { s/\s+//g; $_. } split /,/, $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{$1} = 1 if m{^#if\s+defined\(\$\(\w+\)\)?_GLOBAL\)\$};
}

for (values %depends) {
  my %s;
  $_= [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {

my $f;
my $count = 0;
my $match = $opt{"api-info"} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{"api-info"}\E$";
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n=== $f ===\n\n";
    my $info = 0;
    if (SAPI{$f}{base} || SAPI{$f}{todo}) {
        my $base = format_version(SAPI{$f}{base} || SAPI{$f}{todo});
        print "Supported at least starting from perl-$base.\n";
        $info++;
    }
    if (SAPI{$f}{provided}) {
        my $todo = SAPI{$f}{todo} ? format_version(SAPI{$f}{todo}) : "5.003";
        print "Support by $ppport provided back to perl-$todo.\n";
        print "Support needs to be explicitly requested by NEED_$f if exists $need{$f};"
        print "Depends on: .join(’, ’, @{$depends{$f}}), ".\n" if exists $depends{$f};
        print "unSHints{$f}" if exists $hints{$f};
        print "unWARNING:un$warnings{$f}" if exists $warnings{$f};
        $info++;
    }
    print "No portability information available.\n" unless $info;
    $count++;
    }
$count or print "Found no API matching '$opt{"api-info"}'.\n";
exit 0;
}

if (exists $opt{"list-provided"}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless SAPI{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? [\join(’, ’, @flags)]: "\n";
        print "$f$flags\n";
    }
    exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc -c.inc -xs.inc );
my $srcext = join \n', map { quotemeta $ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

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for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!
        next;
    }

    info("Scanning $filename ... ");

    my $c = do { local $/; <IN> }
    close IN;

    my %file = (orig => $c, changes => 0);

    # Temporarily remove C/XS comments and strings from the code
    my @cком;
    $c =~ s{
        ( \$SHS*\$SHS*include[\^\r\n]+\b(?:\$Q$ppport\$E|XSUB\$.h)[\^\r\n]+*
        \$SHS*\$SHS*\((?:define|elif|if)(?:\$def)?)\b[\^\r\n]+*
    }{ defined $2 and push @cком, $2;
        defined $1 ? $1 : "$cом$cомcомcомcом" }mgsex;
    $file{cом} = @cком;
    $file{code} = $c;
    $file{has_inc_ppport} = $c =~ /^\$SHS*\$SHS*include\[\^\r\n]+\bQ$ppport\$E\b[\^\r\n]+*
        \$SHS*\$SHS*\((?:define|elif|if)(?:\$def)?)\b[\^\r\n]+*
    }{ defined $2 and push @cком, $2;
        defined $1 ? $1 : "$cом$cомcомcомcом" }mgsex;

    $file{cом} = \@cком;
    $file{code} = $c;
    $file{has_inc_ppport} = $c =~ /\$SHS*\$SHS*include\[\^\r\n]+\bQ$ppport\$E\b/m;

    my $func;
    for $func (keys %API) {
        my $match = $func;
        $match .= "$revreplace{$func}" if exists $revreplace{$func};
        if ($c =~ /Ab(?:Perl_)?($match)\b/) {
            $file{uses_replace}{$func}++ if exists $revreplace{$func} & $1 eq $revreplace{$func};
            $file{uses_Perl}{$func}++ if $c =~ /AbPerl_$func\b/;
            if (exists $API{$func}{provided}) {
                $file{uses_provided}{$func}++;
                if (exists $API{$func}{base} || $API{$func} {base} > $opt{'compat-version'}) {
                    $file{uses}{$func}++;
                    my @deps = rec_depend($func);
                    if (@deps) {
                        $file{uses}{$_} = \@deps;
                        for (@deps) {
                            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                        }
                    }
                }
            }
        }
    }
}
for $filename (@files) {
    exists $files{$filename} or next;

    info("==== Analyzing $filename ====");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\$\*\(\$\*)\(?!aTHX_\?)(\[\$\]*)\)?\$\*)\}\$1 \.(\$2 eq ')? 'aTHX': 'aTHX_' . $2 }ge);
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            }
            else {
                warning("Uses Perl_$func instead of $func");
                $file{changes} += ($c =~ s{\bPerl_$func\$\*\(\$\*)\(?!aTHX_\?)(\[\$\]*)\)?\$\*)\}\$func$1(}g);
            }
        } else {
            warning("Uses $func instead of Perl_$func");
            $file{changes} += ($c =~ s{\bPerl\$func\$\*\(\$\*)\(?!aTHX_\?)(\[\$\]*)\)?\$\*)\}\$func$1(}g);
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of replace\$func");
        $file{changes} += ($c =~ s{\breplace\$func\$\*\(\$\*)\(?!aTHX_\?)(\[\$\]*)\)?\$\*)\}\$func$1(}g);
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}[$func]) {
            if (exists $file{uses_deps}[$func]) {
                diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}[$func]}));
            } else {
                diag("Uses $func");
            }
        $warnings += hint($func);
    }

    unless ($opt{quiet}) {
        for $func (sort keys %{$file{uses_todo}}) {
            print "\*** WARNING: Uses $func, which may not be portable below perl ",
        }
    }
}
format_version($API{$func}{todo}), ", even with "$ppport"n";
$warnings++;
}
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used"
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally"
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used"
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally"
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file"
        } if ($message) {
            diag($message);
            $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
        }
    }
    $file{needs_inc_ppport} = keys %{$file{uses}};
    if ($file{needs_inc_ppport}) {
        my $pp = "$;
        for $func (sort keys %{$file{needs}}) {
            my $type = $file{needs}{$func};
            next if $type eq 'extern';
            my $suffix = $type eq 'global' ? '_GLOBAL' : "";
            unless (exists $file{"needed_$type"}{$func}) {

if ($type eq 'global') {
    diag("Files [@${$global{needs}{$func}}] need $func, adding global request");
} else {
    diag("File needs $func, adding static request");
}

$pp .= "#define NEED_$func$suffix\n";
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w++)/$pp/m)) {
    $pp = "";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include "$ppport"");
    $pp .= qq(#include "$ppport\n")
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
        || ($c =~ s/^\(?=$HS*#$HS*include.*$ppport\E)/$pp/m)
        || ($c =~ s/^\(?=$HS*#$HS*include.*XSUB.*\s*?)/$1$pp/m)
        || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include "$ppport"");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$ppport.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of 'filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of 'filename' with changes to 'newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: "$!";
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: "$!";
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            } else {
                mydiff("PATCH", $filename, $c);
            }
        else {
            fallback:
            info("Suggested changes:");
            mydiff("STDOUT", $filename, $c);
        }
    }
}
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;": return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_; 
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }
}
print F $diff;
}

sub run_diff
{
  my($prog, $file, $str) = @_; 
  my $tmp = 'dppptemp';
  my $suf = 'aaa';
  my $diff = "";
  local *F;

  while (-e "$tmp.$suf") { $suf++; }
  $tmp = "$tmp.$suf";

  if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
      while (<F>) {
        s/\Q$tmp\E/$file.patched/;
        $diff .= $_;
      }
      close F;
      unlink $tmp;
      return $diff;
    }
    unlink $tmp;
  }
  else {
    error("Cannot open '$tmp' for writing: $!");
  }

  return undef;
}

sub rec_depend
{
  my($func, $seen) = @_; 
  return () unless exists $depends{$func};
  $seen = {%{$seen||{}}};
  return () if $seen->{$func}++; 
  my %s;
  grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
my $ver = shift;

if ($ver =~ /\d+/) {  
    return ($1, $2, $3);
}
elsif ($ver !~ /\d+/) {  
    die "cannot parse version \$ver\n";
}

$ver =~ s/\d+/\d{6}/g;
$ver =~ s/000000/;

my($r,$v,$s) = $ver =~ /\d+/(\d{3})(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version \$ver\n";
    }
}

return ($r, $v, $s);

sub format_version {
    my $ver = shift;

    $ver =~ s/000000/;
    my($r,$v,$s) = $ver =~ /\d+/(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version \$ver\n";
        }
    }
    $s /= 10;

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.%02d", $s;

    return $ver;
}
return sprintf "%.d%.d%.d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "***\n", @_, "\n";
}

sub error
{
print "*** ERROR: \n", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print "   --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/^\s*perl\s+\S+/$^X $0/;
    $usage =~ s/(\[A-Z\])<(\[^>]+)>/$M{$1}$2$M{$1}/g;

    print <<ENDUSAGE;
    Usage: $usage
    See perldoc $0 for details.
    ENDUSAGE

    exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d+COPYRIGHT\s*^(.*?)^=\w+/ms;
    $copy =~ s/^(?=\S+)//gms;
    $self =~ s/^\$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
    if (@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort };

        \$@ and die "Cannot require Devel::PPPort, please install.\n"
        if (eval \$Devel::PPPort::VERSION < \$VERSION) {
            die "$0 was originally generated with Devel::PPPort \$VERSION.\n"
            . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"
            . "Please install a newer version, or --unstrip will not work.\n"
        }
        Devel::PPPort::WriteFile($0);
        exit 0;
    }
    print <<END;
    Sorry, but this is a stripped version of \$0.
    To be able to use its original script and doc functionality,
    please try to regenerate this file using:
    \$^X \$0 --unstrip
    END
    /ms;
    my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "$pl$c
";
exit 0;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1000849030_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/Filter-1.49.tar.gz-cosi-expand-archive-iNJ8NX82/Filter-1.49/Call/ppport.h
No license file was found, but licenses were detected in source scan.

Source Filters

Version 1.49

2013-04-01 rurban

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DESCRIPTION

This distribution consists of a number of Source Filters.

For more details see the pod documentation embedded in the .pm files.

If you intend using the Filter::Util::Call functionality, I would strongly recommend that you check out Damian Conway's excellent Filter::Simple module. Damian's module provides a much cleaner interface than Filter::Util::Call. Although it doesn't allow the fine control that Filter::Util::Call does, it should be adequate for the majority of
applications. It's available at

http://search.cpan.org/dist/Filter-Simple/

PREREQUISITES

----------

Before you can build the Source Filters you need to have the following
installed on your system:

* Perl 5.005 or better. 5.6.0 or better is recommended for Win32.

If your Perl is less than version 5.004_55, the "order" test harness
will be skipped.

BUILDING THE MODULES

---------------------

Assuming you have met all the prerequisites, building the modules
should be relatively straightforward.

The modules can now be built using this sequence of commands:

perl Makefile.PL
   make
   make test

The filters have been successfully built and tested on the following
systems (at least):

linux (gcc or clang)
cygwin 1.7
mingw strawberry 5.14
SunOS 4.1.3 (Sun C compiler & gcc 2.7.2.3)
Solaris 2.3 (Sun C Compiler)
irix 5.3
irix 6.x
Windows XP (Visual C++ 6.0)

On Windows tr.exe and cpp.exe should be really the gnu/mingw tools in the path
for the testsuite to pass successfully.

INSTALLATION

----------

   make install
The most recent version of the Filters is always available at

http://www.cpan.org/modules/by-module/Filter

Found in path(s):
* /opt/cola/permits/1000849030_1646171520.04/0/perl-Filter-1.49-3.el7.src.rpm-cosi-expand-archive-ZTmD2BdE/Filter-1.49.tar.gz-cosi-expand-archive-iNJ8NX82/Filter-1.49/README

1.33 icu 53

1.33.1 Available under license:

## -*.makefile.*-  
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)  
## Copyright (c) 1999-2013, International Business Machines Corporation and  
## others. All Rights Reserved.  

## Commands to generate dependency files  
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)  
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)  

## Flags for position independent code  
SHAREDLIBCFLAGS = -fPIC  
SHAREDLIBCXXFLAGS = -fPIC  
SHAREDLIBCXXFLAGS = -fPIC  

## Additional flags when building libraries and with threads  
THREADSCPPFLAGS = -D_REENTRANT  
LIBCPPFLAGS =  

## Compiler switch to embed a runtime search path  
LD_RPATH=  
LD_RPATH_PRE=-Wl,-rpath,  

## Compiler switch to embed a library name  
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))  

## Shared library options  
LD_SOOPTIONS= -Wl,-Bsymbic  

## Shared object suffix  
SO = so  
## Non-shared intermediate object suffix  
STATIC_O = ao
## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c  
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<  
%.o: $(srcdir)/%.c  
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<  

%.$(STATIC_O): $(srcdir)/%.cpp  
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<  
%.o: $(srcdir)/%.cpp  
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c  
@echo "generating dependency information for $<"  
@$(SHELL) -ec '$(GEN_DEPS.c) $< 
| sed \"s/\(.*\).o[ :]*/\1.o $@ : /g\" > $@; \
 [ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp  
@echo "generating dependency information for $<"  
@$(SHELL) -ec '$(GEN_DEPS.cc) $< 
| sed \"s/\(.*\).o[ :]*/\1.o $@ : /g\" > $@; \
 [ -s $@ ] || rm -f $@’

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)  
$(RM) $@ & & ln -s {<F} $@  
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)  
$(RM) $@ & & ln -s {*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use  
BIR_LDFLAGS= -Wl,-Bsymblic

# Dependencies [i.e. map files] for the final library  
BIR_DEPS=

## Remove shared library 's'  
STATIC_PREFIX_WHEN_USED =  
STATIC_PREFIX =

## End BSD-specific setup
1.34 opensaml-saml-api 3.3.0

1.34.1 Available under license:

No license file was found, but licenses were detected in source scan.

SAML V2.0 Metadata Extensions for Registration and Publication Information Version 1.0
Committee Specification 01
03 April 2012
Copyright (c) OASIS Open 2012. All rights reserved.
Source: http://docs.oasis

Found in path(s):
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/schema/saml-metadata-rpi-v1.0.xsd

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*/

Found in path(s):
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/saml1/core/ConfirmationMethod.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/saml2/core/SessionIndex.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/saml2/core/StatusResponseType.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/saml2/core/SessionIndex.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/saml1/core/RequestAbstractType.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/metadata/RoleDescriptor.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/ext/saml2mdattr/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/extension/saml2mdquery/AttributeQueryDescriptorType.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/extension/saml2mdrpi/Publication.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/index/SimpleStringMetadataIndexKey.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/AbstractSAMLFilter.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/org/opensaml/saml/metadata/resolver/filter/package-info.java  
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-jar/
jar/org/opensaml/saml1/core/AttributeDesignator.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/core/NewID.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/AuthenticationQuery.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/metadata/AuthnAuthorityDescriptor.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml/common/profile/NameIdentifierGenerator.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml/common/messaging/context/SAMLArtifactContext.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/package-info.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/Statement.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/Condition.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/ProtocolCriterion.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/EntityRoleCriterion.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/AttributeStatement.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/TimeBoundSAMLObject.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/IdentityProviderDescriptor.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/criterion/NameIdentifierCriterion.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/Artifact.java
jar/org/opensaml/criterion/BindingResponseLocationCriterion.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/ext/saml2mdui/IPHint.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/Action.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml/common/messaging/context/ECPContext.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml1/core/AuthorityBinding.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/core/Statement.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/metadata/AssertionIDRequestService.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/core/package-info.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/core/SubjectQuery.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/core/AuthzDecisionQuery.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/core/Conditions.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml/common/profile/logic/DefaultNameIDPolicyPredicate.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/metadata/support/AttributeConsumingServiceSelector.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml/common/profile/logic/EntityAttributesPredicate.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/core/AuthzDecisionQuery.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/metadata/resolver/MetadataResolver.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/ecp/Response.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/ecp/RelayState.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml/common/messaging/context/SAMLProtocolContext.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml/1/ext/saml2mdui/DomainHint.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml/common/binding/artifact/SAMLSourceIDArtifact.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/ecp/package-info.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/metadata/AffiliationDescriptor.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
jar/org/opensaml/saml2/core/AssertionIDRef.java
* /opt/cola/permits/1000740360_1646171532.16/0/opensaml-saml-api-3-3-0-sources-
SAML v2.0 Metadata Profile for Algorithm Support Version 1.0
1.35 ironjacamar-common-api 1.4.11.Final

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jar/org/jboss/jca/common/api/metadata/resourceadapter/WorkManagerSecurity.java
* /opt/cola/permits/1110675906_1654022853.9928946/0/ironjacamar-common-api-1-4-11-final-sources-1-
jar/org/jboss/jca/common/api/metadata/resourceadapter/WorkManager.java
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jar/org/jboss/jca/common/api/metadata/resourceadapter/ConnectionDefinition.java
* /opt/cola/permits/1110675906_1654022853.9928946/0/ironjacamar-common-api-1-4-11-final-sources-1-
jar/org/jboss/jca/common/api/metadata/MergeUtil.java
* /opt/cola/permits/1110675906_1654022853.9928946/0/ironjacamar-common-api-1-4-11-final-sources-1-
jar/org/jboss/jca/common/api/metadata/ds/DataSource.java

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* /
**
* @return configPropertyConfidential
*/
/**
* Get the confidential id
* @return The value
*/

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jar/org/jboss/jca/common/api/metadata/common/Capacity.java
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jar/org/jboss/jca/common/api/metadata/common/SecurityMetadata.java

1.36 bitset 1.1.11

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1.37 mime-pull 1.9.11

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* /opt/cola/permits/1001158872_1646171600.32/0/mimepull-1-9-11-sources-jar/module-info.java
* /opt/cola/permits/1001158872_1646171600.32/0/mimepull-1-9-11-sources-jar/org/jvnet/mimepull/FinalArrayList.java
* /opt/cola/permits/1001158872_1646171600.32/0/mimepull-1-9-11-sources-jar/org/jvnet/mimepull/WeakDataFile.java
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1.38 maven-artifact-manager 2.0.7

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1.39 expat 2.1.0 11.el7

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1.40 mitchellh-mapstructure 1.3.3

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1.41 perl-threads 1.87-4.el7

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Automatically created by Devel::PPPort running under perl 5.010000,
Do NOT edit this file directly! -- Edit PPPort.pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

SKIP

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.
For a C<static> function or variable (used only in a single source file), use:

#define NEED_function
#define NEED_variable

For a global function or variable (used in multiple source files), use:

#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
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<tbody>
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<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
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<td>NEED_PL_signals</td>
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<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
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<td>NEED_grok_bin</td>
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<td>NEED_my_strlcat_GLOBAL</td>
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<td>NEED_newRV_noinc_GLOBAL</td>
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<td>NEED_newSV_type</td>
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<td>NEED_vnewSVpvn</td>
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<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
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</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.
If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[\w.\]+$/;
my $LF = ';\n|\n\n'; # line feed
my $HS = '[ ]'; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.\*';
my $cce = '\*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: '$opt{'compat-version'}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my $API = map { /^(\w+)|(\[^\|]*)|(\[^\|]*)|(\w*)$/
    ? ($1 => {
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ())
    },
    (?1) => {
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ())
    }
};
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Version</th>
<th>Precedence</th>
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if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ".x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
  }
  exit 0;
}

# Scan for possible replacement candidates

my(\%replace, \%need, \%hints, \%warnings, \%depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
  my $code = shift;
  $code =~ s{\n/ (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /\[\^\r\n\]* \| \"[^"\\]*(?:\\\."[^"\\]*)*\" \| \'[^'\\]*(?:\\\.'[^'\\]*)*\' }{}egsx;
  grep { exists $API{$_} } $code =~ /\w+/mg;
}

while (<DATA>) {
  if ($hint) {

  }
my $h = $hint->[0] eq 'Hint' ? %hints : %warnings;
if (m{^s*\s(.*)\s*$}) {
    for (@{ $hint->[1] }) {
        $h->{$_} ||= ""; # suppress warning with older perls
        $h->{$_} .= "$1
";
    }
} else { undef $hint }
}

$hint = [$1, split /,\s+/,$2]]
if (m{^s*rcce\s+(Hint|Warning):\s+\(w+\)?\s*$});

if ($define) {
    if ($define->[1] =~ /\$/) {
        $define->[1] .= $_;
    } else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
            my @n = find_api($define->[1]);
            push @{$depends{$define->[0]}}, @n if @n
        }
        undef $define;
    }
}

$define = [$1, $2] if m{^s*#s*define\s+\(w+)\(\[^\)]*\)\s*\)*\s*$};

if ($function) {
    if (/\}) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}

$function = [$1, "]" if m{^DPPP_\(my_(\w+)\)\s*$};

$replace     = $1 if m{^s*rcce\s+Replace:\s+\(d+)\s+\$rcce\s*\$};
$replace{$2} = $1 if $replace and m{^s*#s*define\s+\(w+)\(\[^\)]*\)\s+\(w+)\)*\s*$};
$replace{$2} = $1 if m{^s*#s*define\s+\(w+)\(\[^\)]*\)\s+\(w+)\)*\s*$rcce\s+Replace\s+\$rcce\s*\$};
$replace{$1} = $2 if m{^s*rcce\s+Replace \(w+) with \(w+)\s+\$rcce\s*\$};
if (m{^s*rccs\s+(w*\s*\w+\s*)\s+depends\s+on\s+(w*\s*\w+\s*)\s+\$rcce\s*\$}) {
    my @deps = map { s/s+//g; $_ } split \/, \$3;
    my $d;
    for $d (map { s/s+//g; $_ } split \/, \$1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{^\#if \s+defined\(\$NEED_(\w+)(?:_GLOBAL)?\)};

for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b }) keys %API {
        next unless $f =~ /$match/;
        print \n=== $f ===

        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo:\n";
            print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
            print "Depends on: ", join(’, ‘, @{$depends{$f}}), "\n" if exists $depends{$f};
            print "\nHints:$hints{$f}" if exists $hints{$f};
            print "\nWarnings:$warnings{$f}" if exists $warnings{$f};
            $info++;
        }
    }
    print "No portability information available:\n" unless $info;
    $count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.";
print \nexit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else { warn "'$_' is not a file.
            }
        } else {
            my @new = grep { -f } glob $_
            or warn "'$_' does not exist.
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /($srcext)$/i
            and push @files, $File::Find::name;
        }, '.');
    };
    if ($@) {
        @files = map { glob "*$_" } @srcext;
    }
}

if (!@ARGV || $opt{filter}) {
    my(@in, @out);

for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend' if exists $depends{$f};
    push @flags, 'hint' if exists $hints{$f};
    push @flags, 'warning' if exists $warnings{$f};
    my $flags = @flags ? ['join(', ','. @flags).'] : "
    print "$f$flags
";
}
exit 0;
}
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

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my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "|\$revreplace\{func\}" if exists $revreplace\{func\};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file\{uses_replace\}{$1}++ if exists $revreplace\{func\} && $1 eq $revreplace\{func\};
    $file\{uses_Perl\}\{func\}++ if $c =~ /AbPerl_\$func\b/
    if (exists $API\{func\}\{provided\}) {
      $file\{uses_provided\}\{func\}++;
      if (exists $API\{func\}\{base\} \&\& $API\{func\}\{base\} > $opt\{\'compat-version\'})) {
        $file\{uses\}\{func\}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file\{uses_deps\}\{func\} = \@deps;
          for (@deps) {
            $file\{uses\}->{$_} = 0 unless exists $file\{uses\}->{$_};
          }
        }
      }
      if (exists $API\{func\}\{todo\} \&\& $API\{func\}\{todo\} > $opt\{\'compat-version\'})) {
        if ($c =~ /\b$func\b/) {
          $file\{uses_todo\}\{func\}++;
        }
      }
    }
  }
  while ($c =~ /^\$HS*\#\$HS*define\$HS+(NEED_(\w+?)(_GLOBAL)?\b/mg) {
    if (exists $need\{$3\}) {
      $file\{defined $3 ? 'needed_global' : 'needed_static'\}{$2}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
  }

  for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
      push @{$global{$_}{$func}}, $filename;
    }
  }

  $files\{$filename\} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);

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for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}[$func]) {
        if (exists $file{uses_deps}[$func]) {
            diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}[$func]}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with 'ppport'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}[$func]) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}[$func] && $file{needs}[$func] ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}[$func]) {
        $message = "No need to define NEED_$func\ GLOBAL if $func is never used"
    } elsif (exists $file{needs}[$func]) {
        if ($file{needs}[$func] eq 'extern') {
            $message = "No need to define NEED_$func\ GLOBAL when already needed globally";
        } elsif ($file{needs}[$func] eq 'static') {
            $message = "No need to define NEED_$func\ GLOBAL when only used in this file";
        }
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
}

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{needed_$type}[$func]) {
            if ($type eq 'global') {
                diag("Files [@{ $global{needs}{$func}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define\b+NEED_\w+)/$pp/m)) {
        $pp = ""
    }
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport\n")
}

if ($pp) {
    $file{changes} += ($c =~ s/^(?=$HS*#\b+define\b+SHS+NEED_\w+[^/]+/\$1Spp/ms) || ($c =~ s/^(?=$HS*#\b+include.*\Q$ppport\E).*?$LF//m) || ($c =~ s/^(?=$HS*#\b+include.*XSUB.*\s*?)^/$1$pp/m) || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
    }
    $file{changes} += ($c =~ s/^(?=$HS*#\b+include.*\Q$ppport\E.*?$LF//m) || ($c =~ s/^{\S+}/$pp/);
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : ';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : ";
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    warning("Uses $opt{copy} "$newfile", which is not portable");
  }

  my $s = $warnings != 1 ? 's' : ';
  my $warn = $warnings ? " ($warnings warning$s)" : ";
  info("Analysis completed$warn");

$patch_opened = 1;
}
else {
    error("Cannot open '$opt{patch}' for writing: $!");
    delete $opt{patch};
    $opt{changes} = 1;
    goto fallback;
}
}
mydiff(*PATCH, $filename, $c);
}
else {
    fallback:
    info("Suggested changes:");
    mydiff(*STDOUT, $filename, $c);
}
}
else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_\;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff
--- $file

header:
--- diff
--- $diff
--- $file


+++ $file.patched

HEADER

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;

sub run_diff {
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
    }

    else {

error("Cannot open '$tmp' for writing: $!");
}
return undef;
}
sub rec_depend
{
my($func, $seen) = @_;
return () unless exists $depends{$func};
$seen = {%{$seen||{}}};
return () if $seen->{$func}++;
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}
sub parse_version
{
my $ver = shift;
if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\.[\d_]+$/) {
die "cannot parse version '$ver'\n";
}
$ver =~ s/_//g;
$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;
$v = int $v;
$s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
if ($s % 10) {
die "cannot parse version '$ver'\n";
}
}
return ($r, $v, $s);
}
sub format_version
{
my $ver = shift;

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$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+\.\d+\d+/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver\n";
    }
    $s /= 10;

    $ver = sprintf "%.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_%.02d", $s;

    return $ver;
}

return sprintf "%.%.%.", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{

$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {
die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
. "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"

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. "Please install a newer version, or --unstrip will not work."
}
Devel::PPPort::WriteFile($0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality, please try to regenerate this file using:

\$^X $0 --unstrip
END
"
use threads ('yield',
    'stack_size' => 64*4096,
    'exit' => 'threads_only',
    'stringify');

sub start_thread {
    my @args = @_;
    print("Thread started: ", join(" ", @args), "\n");
}
my $thr = threads->create('start_thread', 'argument');
$thr->join();

threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } };
$thr2->join();
if (my $err = $thr2->error()) {
    warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create({'context' => 'list'},
    sub { return (qw/a b c/); });
my @results = $thr->join();

$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();

# Lists of non-detached threads
my @threads = threads->list();
my $thread_count = threads->list();
my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
    ...
}

# Manage thread stack size
$stack_size = threads->get_stack_size();
$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create({ 'context'    => 'list',
                            'stack_size' => 32*4096,
                            'exit'       => 'thread_only' },
                           \&foo);

# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
    sleep(1);
}
if ($thr->is_joinable()) {
    $thr->join();
}

# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
threads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I<interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API.
This threading model has been deprecated, and was removed as of Perl 5.10.0.)

As just mentioned, all variables are, by default, thread local. To use shared
variables, you need to also load L<threads::shared>:.
use threads;
use threads::shared;

When loading \texttt{threads::shared}, you must \texttt{use threads} before you \texttt{use threads::shared}. (\texttt{threads} will emit a warning if you do it the other way around.)

It is strongly recommended that you enable threads via \texttt{use threads} as early as possible in your script.

If needed, scripts can be written so as to run on both threaded and non-threaded Perls:

\begin{verbatim}
my $can_use_threads = eval 'use threads; 1';
if ($can_use_threads) {
    # Do processing using threads
    ...
} else {
    # Do it without using threads
    ...
}
\end{verbatim}

\item \texttt{$thr = \texttt{threads->create(FUNCTION, ARGS)$}}

This will create a new thread that will begin execution with the specified entry point function, and give it the \texttt{ARGS} list as parameters. It will return the corresponding threads object, or \texttt{undef} if thread creation failed.

\texttt{FUNCTION} may either be the name of a function, an anonymous subroutine, or a code ref.

\begin{verbatim}
my $thr = \texttt{threads->create('func_name', ...);} 
    # or
my $thr = \texttt{threads->create(sub { ... }, ...);} 
    # or
my $thr = \texttt{threads->create(&func, ...);} 
\end{verbatim}

The \texttt{-E<gt>new()> method is an alias for \texttt{-E<gt>create()>}.

\item \texttt{$thr->join()$}

This will wait for the corresponding thread to complete its execution. When the thread finishes, \texttt{\texttt{-E<gt>join()}} will return the return value(s) of the entry point function.
The context (void, scalar or list) for the return value(s) for \texttt{C<-gt>join()} is determined at the time of thread creation.

\begin{verbatim}
# Create thread in list context (implicit)
my ($thr1) = threads->create(sub {
    my @results = qw(a b c);
    return (@results);
});
# or (explicit)
my $thr1 = threads->create({'context' => 'list'}, sub {
    my @results = qw(a b c);
    return (@results);
});
# Retrieve list results from thread
my @res1 = $thr1->join();

# Create thread in scalar context (implicit)
my $thr2 = threads->create(sub {
    my $result = 42;
    return ($result);
});
# Retrieve scalar result from thread
my $res2 = $thr2->join();

# Create a thread in void context (explicit)
my $thr3 = threads->create({'void' => 1}, sub { print("Hello, world\n"); });
# Join the thread in void context (i.e., no return value)
$thr3->join();
\end{verbatim}

See L\texttt{"THREAD CONTEXT"} for more details.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling \texttt{C<-gt>join()} or \texttt{C<-gt>detach()} on an already joined thread will cause an error to be thrown.

\begin{verbatim}
=item $thr->detach()
\end{verbatim}

Makes the thread unjoinable, and causes any eventual return value to be discarded. When the program exits, any detached threads that are still running are silently terminated.

If the program exits without all threads having either been joined or detached, then a warning will be issued.
Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already detached thread will cause an error to be thrown.

=item threads->detach()

Class method that allows a thread to detach itself.

=item threads->self()

Class method that allows a thread to obtain its own I<threads> object.

=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main thread in a program being 0, and incrementing by 1 for every thread created.

=item threads->tid()

Class method that allows a thread to obtain its own ID.

=item "$thr"

If you add the C<stringify> import option to your C<use threads> declaration, then using a threads object in a string or a string context (e.g., as a hash key) will cause its ID to be used as the value:

use threads qw(stringify);

my $thr = threads->create(...);
print("Thread $thr started...");  # Prints out: Thread 1 started...

=item threads->object($tid)

This will return the I<threads> object for the I<active> thread associated with the specified thread ID. If C<$tid> is the value for the current thread, then this call works the same as C<-E<gt>self()>. Otherwise, returns C<undef> if there is no thread associated with the TID, if the thread is joined or detached, if no TID is specified or if the specified TID is undef.

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You may do C<use threads qw(yield)> and then just use C<yield()> in your code.
=item threads->list()

=item threads->list(threads::all)

=item threads->list(threads::running)

=item threads->list(threads::joinable)

With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.

With a I<false> argument (using C<threads::joinable>), returns a list of all non-joined, non-detached I<threads> objects that have finished running (i.e., for which C<-E<gt>join()> will not I<block>).

=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

if ($thr1 == $thr2) {
    print("Threads are the same\n");
}

# or

if ($thr1 != $thr2) {
    print("Threads differ\n");
}

(Thread comparison is based on thread IDs.)

=item async BLOCK;

C<async> creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a semicolon after the closing brace. Like C<threads-E<gt>create()>, C<async> returns a I<threads> object.

=item $thr->error()

Threads are executed in an C<eval> context. This method will return C<undef> if the thread terminates I<normally>. Otherwise, it returns the value of C<$@> associated with the thread's execution status in its C<eval> context.

=item $thr->_handle()
This I<private> method returns the memory location of the internal thread structure associated with a threads object. For Win32, this is a pointer to the C<HANDLE> value returned by C<CreateThread> (i.e., C<HANDLE *>); for other platforms, it is a pointer to the C<pthread_t> structure used in the C<pthread_create> call (i.e., C<pthread_t *>).

This method is of no use for general Perl threads programming. Its intent is to provide other (XS-based) thread modules with the capability to access, and possibly manipulate, the underlying thread structure associated with a Perl thread.

=item threads->_handle()

Class method that allows a thread to obtain its own I<handle>.

=back

=head1 EXITING A THREAD

The usual method for terminating a thread is to L<return()> from the entry point function with the appropriate return value(s).

=over

=item threads->exit()

If needed, a thread can be exited at any time by calling C<threads-E<gt>exit()> . This will cause the thread to return C<undef> in a scalar context, or the empty list in a list context.

When called from the I<main> thread, this behaves the same as C<exit(0)>.

=item threads->exit(status)

When called from a thread, this behaves like C<threads-E<gt>exit()> (i.e., the exit status code is ignored).

When called from the I<main> thread, this behaves the same as C<exit(status)>.

=item die()

Calling C<die()> in a thread indicates an abnormal exit for the thread. Any C<$SIG{__DIE__}> handler in the thread will be called first, and then the thread will exit with a warning message that will contain any arguments passed in the C<die()> call.
Calling `exit(EXPR)` inside a thread causes the whole application to terminate. Because of this, the use of `exit()` inside threaded code, or in modules that might be used in threaded applications, is strongly discouraged.

If `exit()` really is needed, then consider using the following:

```perl
threads-&gt;exit() if threads-&gt;can('exit');  # Thread friendly
exit(status);
```

```perl
use threads 'exit' => 'threads_only'
```

This globally overrides the default behavior of calling `exit()` inside a thread, and effectively causes such calls to behave the same as `threads-&gt;exit()`. In other words, with this setting, calling `exit()` causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The `main` thread is unaffected by this setting.

```perl
create({'exit' =&gt; 'thread_only'}, ...)
```

This overrides the default behavior of `exit()` inside the newly created thread only.

```perl
set_thread_exit_only(boolean)
```

This can be used to change the `exit thread only` behavior for a thread after it has been created. With a `true` argument, `exit()` will cause only the thread to exit. With a `false` argument, `exit()` will terminate the application.

The `main` thread is unaffected by this call.

```perl
set_thread_exit_only(boolean)
```

Class method for use inside a thread to change its own behavior for `exit()`.

The `main` thread is unaffected by this call.
The following boolean methods are useful in determining the I<state> of a thread.

=item $thr->is_running()

Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).

=item $thr->is_joinable()

Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to C<$thr-E<gt>join()> will not I<block>.

=item $thr->is_detached()

Returns true if the thread has been detached.

=item threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

=head1 THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's I<context>: list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via L<wantarray()>perlfunc"wantarray">. The thread may then specify a value of the appropriate type to be returned from C<-E<gt>join()>.

=head2 Explicit context

Because thread creation and thread joining may occur in different contexts, it may be desirable to state the context explicitly to the thread's entry point function. This may be done by calling C<-E<gt>create()> with a hash reference as the first argument:

    my $thr = threads->create({'context' => 'list'}, \&foo);
    ...
    my @results = $thr->join();

In the above, the threads object is returned to the parent thread in scalar context, and the thread's entry point function C<foo> will be called in list context.
(array) context such that the parent thread can receive a list (array) from the C<-E<gt>join()> call. (C<'array'> is synonymous with C<'list'>.)

Similarly, if you need the threads object, but your thread will not be returning a value (i.e., I<void> context), you would do the following:

    my $thr = threads->create({'context' => 'void'}, \&foo);
    ...
    $thr->join();

The context type may also be used as the I<key> in the hash reference followed by a I<true> value:

    threads->create({'scalar' => 1}, \&foo);
    ...
    my ($thr) = threads->list();
    my $result = $thr->join();

=head2 Implicit context

If not explicitly stated, the thread's context is implied from the context of the C<-E<gt>create()> call:

    # Create thread in list context
    my ($thr) = threads->create(...);

    # Create thread in scalar context
    my $thr = threads->create(...);

    # Create thread in void context
    threads->create(...);

=head2 $thr->wantarray()

This returns the thread's context in the same manner as L<wantarray()>.

=head2 threads->wantarray()

Class method to return the current thread's context. This returns the same value as running L<wantarray()> inside the current thread's entry point function.

=head1 THREAD STACK SIZE

The default per-thread stack size for different platforms varies significantly, and is almost always far more than is needed for most applications. On Win32, Perl's makefile explicitly sets the default stack to
16 MB; on most other platforms, the system default is used, which again may be much larger than is needed.

By tuning the stack size to more accurately reflect your application's needs, you may significantly reduce your application's memory usage, and increase the number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.

=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which means the system default stack size is currently in use.

=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in a warning, and the minimum stack size will be used.

Some Linux platforms have a maximum stack size. Setting too large of a stack size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call C<pthread_attr_setstacksize()> I<(for pthreads platforms)>, or supply the stack size to C<CreateThread()> I<(for Win32 Perl)>

(Obviously, this call does not affect any currently extant threads.)

=item use threads ('stack_size' => VALUE);

This sets the default per-thread stack size at the start of the application.

=item $ENV{'PERL5_ITHREADS_STACK_SIZE'}
The default per-thread stack size may be set at the start of the application through the use of the environment variable `PERL5_ITHREADS_STACK_SIZE`:

```
PERL5_ITHREADS_STACK_SIZE=1048576
export PERL5_ITHREADS_STACK_SIZE
perl -e'use threads; print(threads->get_stack_size(), "\n")'
```

This value overrides any `stack_size` parameter given to `use threads`. Its primary purpose is to permit setting the per-thread stack size for legacy threaded applications.

=item threads->create(\{'stack_size' => VALUE\}, FUNCTION, ARGS)

To specify a particular stack size for any individual thread, call `C<create()>` with a hash reference as the first argument:

```perl
my $thr = threads->create(\{'stack_size' => 32*4096\}, \&foo, @args);
```

=item $thr2 = $thr1->create(FUNCTION, ARGS)

This creates a new thread (C<$thr2>) that inherits the stack size from an existing thread (C<$thr1>). This is shorthand for the following:

```perl
my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create(\{'stack_size' => $stack_size\}, FUNCTION, ARGS);
```

=head1 THREAD SIGNALLING

When safe signals is in effect (the default behavior - see L</"Unsafe signals"> for more details), then signals may be sent and acted upon by individual threads.

=over 4

=item $thr->kill('SIG...');

Sends the specified signal to the thread. Signal names and (positive) signal numbers are the same as those supported by L<kill()>|perlfunc/"kill SIGNAL, LIST">. For example, 'SIGTERM', 'TERM' and (depending on the OS) 15 are all valid arguments to C<E<gt>kill()>.

Returns the thread object to allow for method chaining:

```
$thr->kill('SIG...')->join();
```
Signal handlers need to be set up in the threads for the signals they are expected to act upon. Here's an example for cancelling a thread:

```perl
use threads;
sub thr_func
{
    # Thread 'cancellation' signal handler
    $SIG{'KILL'} = sub { threads->exit(); };

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();
```

Here's another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary suspend and resume capabilities:

```perl
use threads;
use Thread::Semaphore;
sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down();  # Thread suspended
        $sema->up();    # Thread resumes
    };

    ...
}

# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);
```
# Suspend the thread
$sema->down();
$thr->kill('STOP');

...

# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It I<emulates> signals at the Perl-level such that signal handlers are called in the appropriate thread. For example, sending C<$thr-E<gt>kill('STOP')> does not actually suspend a thread (or the whole process), but does cause a C<$SIG{'STOP'}> handler to be called in that thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the C<kill()> command (e.g., C<kill('KILL', $$)> ) are okay to use with the C<-E<gt>kill()> method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation the thread is currently working on: The signal will be acted upon after the current operation has completed. For instance, if the thread is I<stuck> on an I/O call, sending it a signal will not cause the I/O call to be interrupted such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

=over 4

=item Perl exited with active threads:

If the program exits without all threads having either been joined or detached, then this warning will be issued.

NOTE: If the I<main> thread exits, then this warning cannot be suppressed using C<no warnings 'threads';> as suggested below.

=item Thread creation failed: pthread_create returned #

See the appropriate I<man> page for C<pthread_create> to determine the actual cause for the failure.

=item Thread # terminated abnormally: ...

A thread terminated in some manner other than just returning from its entry
point function, or by using C<threads-E<gt>exit()>. For example, the thread may have terminated because of an error, or by using C<die>.

=item Using minimum thread stack size of #

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in the above warning, and the stack size will be set to the minimum.

=item Thread creation failed: pthread_attr_setstacksize(I<SIZE>) returned 22

The specified I<SIZE> exceeds the system's maximum stack size. Use a smaller value for the stack size.

=back

If needed, thread warnings can be suppressed by using:

   no warnings 'threads';

in the appropriate scope.

=head1 ERRORS

=over 4

=item This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the C<useithreads> configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the L<threads> module (i.e., threaded and non-threaded Perls are binary incompatible).

=item Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:

   $thr->set_stack_size($size);

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the C<-E<gt>kill()> signalling method. See L</"Unsafe signals"> for more details.
=item Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the specified signal being used in a C-E<gt>kill() call.

=back

=head1 BUGS AND LIMITATIONS

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

=over

=item Thread-safe modules

See L<perlmod/Making your module threadsafe/> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

=item Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I<thread-safe>. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using C<require> (and C<import> if needed):

    sub thr_func
    {
       require Unsafe::Module
       # Unsafe::Module->import(...);

       ....
    }

If the module is needed inside the I<main> thread, try modifying your application so that the module is loaded (again using C<require> and C<E<gt>import()> after any threads are started, and in such a way that no other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file a bug report on L<http://rt.cpan.org/Public/> against the problematic module.
=item Memory consumption

On most systems, frequent and continual creation and destruction of threads can lead to ever-increasing growth in the memory footprint of the Perl interpreter. While it is simple to just launch threads and then `C<-E<gt>join()>` or `C<-E<gt>detach()>` them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using `Thread::Queue` to notify threads of pending work. The CPAN distribution of this module contains a simple example (`F<examples/pool_reuse.pl>`) illustrating the creation, use and monitoring of a pool of I<reusable> threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory is shared among all threads such that changing it in one thread (e.g., using `C<chdir()>`) will affect all the threads in the application. On MSWin32, each thread maintains its own the current working directory setting.

=item Environment variables

Currently, on all platforms except MSWin32, all I<system> calls (e.g., using `C<system()>` or back-ticks) made from threads use the environment variable settings from the I<main> thread. In other words, changes made to `C<%ENV>` in a thread will not be visible in I<system> calls made by that thread.

To work around this, set environment variables as part of the I<system> call. For example:

```perl
my $msg = 'hello';
system("FOO=$msg; echo \$FOO");   # Outputs 'hello' to STDOUT
```

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals are I<caught> by the main thread (thread ID = 0) of a script. Therefore, setting up signal handlers in threads for purposes other than L</"THREAD SIGNALLING"> as documented above will not accomplish what is intended.

This is especially true if trying to catch `C<SIGALRM>` in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use L</"THREAD SIGNALLING"> to relay the signal to the thread:

```perl
# Create thread with a task that may time out
```
my $thr->create(sub {
    threads->yield();
    eval {
        $SIG{ALRM} = sub { die("Timeout\n"); };
        alarm(10);
        ...  # Do work here
        alarm(0);
    };
    if ($@ =~ /Timeout/) {
        warn("Task in thread timed out\n");
    }
};

# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr->kill('ALRM') };

... # Main thread continues working

=item Parent-child threads

On some platforms, it might not be possible to destroy I<parent> threads while there are still existing I<child> threads.

=item Creating threads inside special blocks

Creating threads inside C<BEGIN>, C<CHECK> or C<INIT> blocks should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their handling until the interpreter is in a I<safe> state. See L<perl58delta/"Safe Signals"> and L<perlipc/"Deferred Signals (Safe Signals)"> for more details.

Safe signals is the default behavior, and the old, immediate, unsafe signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with C<PERL_OLD_SIGNALS> (see C<perl -V>).

=item * The environment variable C<PERL_SIGNALS> is set to C<unsafe> (see L<perlrun/"PERL_SIGNALS">).

=item * The module L<Perl::Unsafe::Signals> is used.
If unsafe signals is in effect, then signal handling is not thread-safe, and the `C<-E<gt>kill()>` signalling method cannot be used.

=item Returning closures from threads

Returning closures from threads should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Returning objects from threads

Returning objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using `L<Data::Dumper>` or `L<Storable>`), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports `L<shared objects|threads::shared/OBJECTS>`, you can pass them via `L<shared queues|Thread::Queue>.

=item END blocks in threads

It is possible to add `L<END blocks|perlmod/BEGIN, UNITCHECK, CHECK, INIT and END>` to threads by using `L<require|perlfunc/require VERSION>` or `L<eval|perlfunc/eval EXPR>` with the appropriate code. These `C<END>` blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a `C<-E<gt>join()>` call, or at program termination).

However, calling any `L<threads>` methods in such an `C<END>` block will most likely I<fail> (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the `L<threads>` module.

For this reason, the use of `C<END>` blocks in threads is B<strongly> discouraged.

=item Open directory handles

In perl 5.14 and higher, on systems other than Windows that do not support the `C<fchdir>` C function, directory handles (see `L<opendir|perlfunc/opendir DIRHANDLE,EXPR>` ) will not be copied to new threads. You can use the `C<d_fchdir>` variable in `L<Config.pm|Config>` to determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would crash the interpreter. L<[perl #75154]|http://rt.perl.org/rt3/Public/Bug/Display.html?id=75154>
Perl Bugs and the CPAN Version of L<threads>

Support for threads extends beyond the code in this module (i.e., F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of L<threads> from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

L<threads> Discussion Forum on CPAN: L<http://www.cpanforum.com/dist/threads>

L<threads::shared>, L<perlthrtut>


Perl threads mailing list: L<http://lists.perl.org/list/ithreads.html>

Stack size discussion: L<http://www.perlmonks.org/?node_id=532956>

=head1 AUTHOR

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=head1 LICENSE

threads is released under the same license as Perl.
ACKNOWLEDGEMENTS

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Rocco Caputo <troc AT netrus DOT net>

Vipul Ved Prakash <mail AT vipul DOT net> -
Helping with debugging

Dean Arnold <darnold AT presicient DOT com> -
Stack size API

Found in path(s):
* /opt/cola/permits/1000848958_1646171581.67/0/perl-threads-1.87-4.el7.src.rpm-cosi-expand-archive-9YR7xE5s/threads-1.87.tar.gz-cosi-expand-archive-H5g7shXt/threads-1.87/lib/threads.pm
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1000848958_1646171581.67/0/perl-threads-1.87-4.el7.src.rpm-cosi-expand-archive-9YR7xE5s/threads-1.87.tar.gz-cosi-expand-archive-H5g7shXt/threads-1.87/examples/pool_reuse.pl
* /opt/cola/permits/1000848958_1646171581.67/0/perl-threads-1.87-4.el7.src.rpm-cosi-expand-archive-9YR7xE5s/threads-1.87.tar.gz-cosi-expand-archive-H5g7shXt/threads-1.87/examples/pool.pl
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl interpreter-based threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: threads
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  ExtUtils::testlib: 0
  Hash::Util: 0
  IO::File: 0
  Test::More: 0
  XSLoader: 0
  overload: 0
  strict: 0
  warnings: 0
version: 1.87

Found in path(s):
* /opt/cola/permits/1000848958_1646171581.67/0/perl-threads-1.87-4.el7.src.rpm-cosi-expand-archive-9YR7xE5s/threads-1.87.tar.gz-cosi-expand-archive-H5g7shXt/threads-1.87/META.yml
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1000848958_1646171581.67/0/perl-threads-1.87-4.el7.src.rpm-cosi-expand-archive-9YR7xE5s/perl-threads.spec

1.42 opentracing-web-servlet-filter 0.1.0

1.42.1 Available under license:
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

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1.43 java-getopt 1.0.9

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1.62 jsr305 1.3.7

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 * Print the string value of the argument, which may be of any type.
 * If beanshell is running interactively, the output will always go to the
 * command line, otherwise it will go to System.out.
 * <p>
 * Most often the printed value of an object will simply be the Java
 * toString() of the object. However if the argument is an array the contents
 * of the array will be (recursively) listed in a verbose way.
 * <p>
 * Note that you are always free to use System.out.println()
 * instead of print().
 */

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* /opt/cola/permits/100060130_1646171457.83/0/bsh-2-0b4-jar/bsh/commands/print.bsh

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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### 1.73 wss4j-ws-security-stax 2.2.2

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1.74 less 458 9.el7

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  jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4.3-sources-
  jar/org/antlr/v4/runtime/tree/pattern/Chunk.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4.3-sources-
  jar/org/antlr/v4/runtime/tree/pattern/TagChunk.java
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  jar/org/antlr/v4/runtime/tree/pattern/ParseTreePatternMatcher.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4.3-sources-
  jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java
* /opt/ cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4.3-sources-
  jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4.3-sources-
  jar/org/antlr/v4/runtime/InterpreterRuleContext.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4.3-sources-
  jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4.3-sources-
  jar/org/antlr/v4/runtime/tree/pattern/TokenTagToken.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4.3-sources-
  jar/org/antlr/v4/runtime/ParserInterpreter.java

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* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/parseinfo/ContextSensitivityInfo.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/parseinfo/DecisionEventInfo.java
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* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/atn/LexerSkipAction.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/atn/LexerCustomAction.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/atn/LexerIndexedCustomAction.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/atn/ATNDeserializationOptions.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/atn/ProfilingATNSimulator.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/atn/ATNType.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/atn/ATNSimulator.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/atn/LexerPopModeAction.java
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* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/atn/LexerTypeAction.java
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* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/misc/Interval.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/misc/IntSet.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/misc/DoubleKeyMap.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/tree/Trees.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/tree/gui/PostScriptDocument.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/Parser.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/tree/gui/TreeTextProvider.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/BufferedTokenStream.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/atn/BasicBlockStartState.java
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* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/TokenStream.java
* /opt/cola/permits/1000760411_1646171499.6/0/antlr4-runtime-4-3-sources-jar/org/antlr/v4/runtime/misc/GraphicsSupport.java
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* @version 3.0 (December 2000)
  *
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  *
  * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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import java.io.FilterInputStream;
import java.io.IOException;
import java.io.InputStream;

/**
 * Closes an underlying stream as soon as the end of the stream is reached, and
 * notifies a client when it has done so.
 *
 * @author Ortwin Glueck
 * @author Eric Johnson
 * @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
 * @since 2.0
 */
class AutoCloseInputStream extends FilterInputStream {

    /**
     * True if this stream is open. Assume that the underlying stream
     * is open until we get an EOF indication.
     */
    private boolean streamOpen = true;

    /** True if the stream closed itself. */
    private boolean selfClosed = false;

    /**
     * The watcher is notified when the contents of the stream have
     * been exhausted
     */
    private ResponseConsumedWatcher watcher = null;

    /**
     * Create a new auto closing stream for the provided connection
     *
     * @param in the input stream to read from
     * @param watcher   To be notified when the contents of the stream have been
     *  consumed.
     */
    public AutoCloseInputStream(
        final InputStream in, final ResponseConsumedWatcher watcher) {
        super(in);
        this.watcher = watcher;
    }

    /**
     * Reads the next byte of data from the input stream.
     *
     * @throws IOException when there is an error reading
     * @return the character read, or -1 for EOF
     */
    public int read() throws IOException {
        int l = -1;
        if (isReadAllowed()) {
            // underlying stream not closed, go ahead and read.
            l = super.read();
            checkClose(l);
        }

        return l;
    }
}
/**
 * Reads up to <code>len</code> bytes of data from the stream.
 *
 * @param b  a <code>byte</code> array to read data into
 * @param off an offset within the array to store data
 * @param len the maximum number of bytes to read
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b, int off, int len) throws IOException {
    int l = -1;
    if (isReadAllowed()) {
        l = super.read(b, off, len);
        checkClose(l);
    }
    return l;
}

/**
 * Reads some number of bytes from the input stream and stores them into the
 * buffer array b.
 *
 * @param b  a <code>byte</code> array to read data into
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b) throws IOException {
    int l = -1;
    if (isReadAllowed()) {
        l = super.read(b);
        checkClose(l);
    }
    return l;
}

/**
 * Close the stream, and also close the underlying stream if it is not
 * already closed.
 * @throws IOException If an IO problem occurs.
 */
public void close() throws IOException {
    if (!selfClosed) {
        selfClosed = true;
        notifyWatcher();
    }
}
private void checkClose(int readResult) throws IOException {
    if (readResult == -1) {
        notifyWatcher();
    }
}

private boolean isReadAllowed() throws IOException {
    if (!streamOpen && selfClosed) {
        throw new IOException("Attempted read on closed stream.");
    }
    return streamOpen;
}

private void notifyWatcher() throws IOException {
    if (streamOpen) {
        super.close();
        streamOpen = false;
        if (watcher != null) {
            watcher.responseConsumed();
        }
    }
}

/**
 * Close the underlying stream should the end of the stream arrive.
 *
 * @param readResult The result of the read operation to check.
 * @throws IOException If an IO problem occurs.
 */
private void checkClose(int readResult) throws IOException {
    if (readResult == -1) {
        notifyWatcher();
    }
}

/**
 * See whether a read of the underlying stream should be allowed, and if
 * not, check to see whether our stream has already been closed!
 *
 * @return <code>true</code> if it is still OK to read from the stream.
 * @throws IOException If an IO problem occurs.
 */
private boolean isReadAllowed() throws IOException {
    if (!streamOpen & selfClosed) {
        throw new IOException("Attempted read on closed stream.");
    }
    return streamOpen;
}

/**
 * Notify the watcher that the contents have been consumed.
 * @throws IOException If an IO problem occurs.
 */
private void notifyWatcher() throws IOException {
    if (streamOpen) {
        super.close();
        streamOpen = false;
        if (watcher != null) {
            watcher.responseConsumed();
        }
    }
}
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 */
/**
 * Constructor
 * @param description list of descriptions
 * @param configPropertyName name of the property
 * @param configPropertyType full qualified name of the type of the property
 * @param configPropertyValue value
 * @param configPropertyIgnore not mandatory boolean value The element config-property-ignore is used to specify
 * whether the configuration tools must ignore considering the
 * configuration property during auto-discovery of
 * Configuration properties. See the Connector specification for
 * more details. If unspecified, the container must not ignore
 * the configuration property during auto-discovery.
 * @param configPropertySupportsDynamicUpdates not mandatory The element
 * config-property-supports-dynamic-updates is used to specify
 * whether the configuration property allows its value to be updated, by
 * application server's configuration tools, during the lifetime of
 * the JavaBean instance. See the Connector specification for
 * more details. If unspecified, the container must not dynamically
 * reconfigure the property.
* @param configPropertyConfidential The element config-property-confidential is used to specify
* whether the configuration property is confidential and
* recommends application server's configuration tools to use special
* visual aids for editing them. See the Connector specification for
* more details. If unspecified, the container must not treat the
* property as confidential.
* @param id XML ID
* @param mandatory Is the property mandatory
* @param attachedClassName className of the class where the property is defined by annotation
* @param configPropertyIgnoreId ID of configPropertyIgnore element
* @param configPropertySupportsDynamicUpdatesId ID of configPropertySupportsDynamicUpdates element
* @param configPropertyConfidentialId ID of configPropertyConfidential element
*/

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jar/org/jboss/jca/common/metadata/spec/ConfigPropertyImpl.java

1.91 jipijapa-spi 14.0.1.Final

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2ReaderImpl.java

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  jar/org/codehaus/stax2/typed/Base64Variant.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/typed/Base64Variants.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/XMLStreamReader2.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/TypedXMLStreamReader2.java
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1.104 slf4j 1.7.25

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Version: 2.0

Status: Final Release

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Release: 20 March 2013
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1.117 spring-web 5.1.9.RELEASE

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* /opt/cola/permits/1136608033_1613807199.11/0/spring-web-5-1-9-release-sources-1.jar/org/springframework/http/client/ClientHttpRequestFactory.java
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* /opt/cola/permits/1136608033_1613807199.11/0/spring-web-5-1-9-release-sources-1.jar/org/springframework/http/ReactiveHttpInputMessage.java
* /opt/cola/permits/1136608033_1613807199.11/0/spring-web-5-1-9-release-sources-1.jar/org/springframework/web/bind/support/WebBindingInitializer.java
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* /opt/cola/permits/1136608033_1613807199.11/0/spring-web-5-1-9-release-sources-1.jar/org/springframework/web/context/request/async/AsyncRequestTimeoutException.java
* /opt/cola/permits/1136608033_1613807199.11/0/spring-web-5-1-9-release-sources-1.jar/org/springframework/web/accept/MediaTypeFileExtensionResolver.java

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 */

/**
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See { @link WebSession

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* for more details.
*/

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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
#
# MIME type (lowercased)Extensions
# ================================================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
# application/andrew-insetez
# application/applefile
# application/applixwareaw
# application/atf
# application/atfx
# application/atom+xml
# application/atom+xmlatom
application/p2p-overlay+xml
application/parityfec
application/patch-ops-error+xmlxer
application/pdf
application/pdx
application/pgp-encrypted
application/pgp-keys
application/pgp-signature.asc
application/pics-rules
application/pidf+xml
application/pidf-diff+xml
application/pkcs10
application/pkcs12
application/pkcs7-mime
application/pkcs7-signature
application/pkix-attr-cert
application/pkix-cert
application/pkix-crl
application/pkix-pkipath
application/pkixcmp
application/pls+xml
application/postscript
application/ppsp-tracker+json
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application/problem+json
application/problem+xml
application/provenance+xml
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application/prs.hpub+zip
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application/sfh+xml
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# application/smil
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application/sparql-results+xml
# application/spirits-event+xml
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# audio/120
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# audio/18
# audio/lpc
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# audio/pcma
# audio/pcma-wb
# audio/pcm
# audio/pcm-wb
# audio/prs.sid
# audio/qcelp
# audio/raptorfec
# audio/red
# audio/rtp-enc-aescm128
# audio/rtp-midi
# audio/rtploopback
# audio/rtx
audio/s3ms3m
audio/silksil
# audio/smv
# audio/smv-qcp
# audio/smv0
# audio/sp-midi
# audio/speex
# audio/t140c
# audio/t38
# audio/telephone-event
# audio/tone
# audio/uemclip
# audio/ulpfec
# audio/vdvi
# audio/vmr-wb
# audio/vnd.3gpp.iufp
# audio/vnd.4sb
audio/vnd.audiokoz
audio/vnd.celp
audio/vnd.cisco.nse
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Open Source Used In Data Center Network Manager 11.5(1)  1180
# video/encaprtp
# video/example
video/h261h261
video/h263h263
# video/h263-1998
# video/h263-2000
video/h264h264
# video/h264-rcdo
# video/h264-svc
# video/h265
# video/iso.segment
video/jpegjpv
# video/jpeg2000
video/jpmjpm jpgm
video/mj2mj2 mj2p
# video/mp1s
# video/mp2p
# video/mp2t
video/mp4mp4 mp4v mpg4
# video/mp4v-es
video/mpegmjpeg mpg m1v m2v
# video/mpeg4-generic
# video/mpv
# video/nv
video/oggogv
# video/parityfec
# video/pointer
video/quicktimeqt mov
# video/raptorfec
# video/raw
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# video/rtploopback
# video/rtx
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video/x-msvideo
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x-conference/x-cooltalkice

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jar/org/springframework/web/bind/MissingPathVariableException.java
* /opt/cola/permits/1136608033_1613807199.11/0/spring-web-5-1-9-release-sources-1-
jar/org/springframework/http/codec/json/Jackson2SmileEncoder.java
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* /opt/cola/permits/1136608033_1613807199.11/0/spring-web-5-1-9-release-sources-1-jar/org/springframework/web/context/support/ServletContextPropertySource.java
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1.118 jackson 2.9.9

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# Jackson JSON processor

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org.jboss.as.pojo.PojoExtension

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* /opt/cola/permits/1110677140_1654023051.6220315/0/wildfly-pojo-14-0-1-final-sources-1-jar/META-INF/services/org.jboss.as.controller.Extension
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* /opt/cola/permits/1110677140_1654023051.6220315/0/wildfly-pojo-14-0-1-final-sources-1-jar/org.jboss.as/pojo/descriptor/TypeProvider.java
* /opt/cola/permits/1110677140_1654023051.6220315/0/wildfly-pojo-14-0-1-final-sources-1-jar/org.jboss.as/pojo/descriptor/AbstractConfigVisitorNode.java
* /opt/cola/permits/1110677140_1654023051.6220315/0/wildfly-pojo-14-0-1-final-sources-1-jar/org.jboss.as/pojo/descriptor/ModeConfig.java
* /opt/cola/permits/1110677140_1654023051.6220315/0/wildfly-pojo-14-0-1-final-sources-1-jar/org.jboss.as/pojo/service/Callback.java
* /opt/cola/permits/1110677140_1654023051.6220315/0/wildfly-pojo-14-0-1-final-sources-1-
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* /opt/cola/permits/1110677140_1654023051.6220315/0/wildfly-pojo-14-0-1-final-sources-1-jar/schema/jboss-pojo_7_0.xsd

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1.124 phantomjs 1.9.6

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* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
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* HPUX support.
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* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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1.125 libtiff 4.0.3 32.el7

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1.126 icu 63

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADS_CPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH =
LD_RPATH_PRE = -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS = -Wl,-Bs symbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/(\$\n)/,of :[^\*]*\n*/g" > $@; \
[ -s $@ ] || rm -f $@' %d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
```bash
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \\
| sed '\s/($*).o[ :]*/\1.o $@ : /g' > $@; \\
[ -s $@ ] || rm -f $@'
```

## Versioned libraries rules

%.$(_LIB).$(TAG).$(Tmajor): %.$(_LIB).$(TAG)
$(RM) $@ && ln -s ${<F} $@
%.$(_LIB): %.$(_LIB).$(Tmajor)
$(RM) $@ && ln -s ${*F}.$(_LIB).$(Tmajor) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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  * /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2.jar/org/hibernate/validator/valuehandling/package-info.java
  * /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2.jar/org/hibernate/validator/valuehandling/UnwrapValidatedValue.java
  * /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2.jar/org/hibernate/validator/cfg/defs/Mod10CheckDef.java
  * /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2.jar/org/hibernate/validator/internal/util/privilegedactions/Unmarshal.java
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  * /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2.jar/org/hibernate/validator/cfg/defs/Mod11CheckDef.java
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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
jar/org/hibernate/validator/internal/util/CollectionHelper.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/package.html
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/descriptor/package.html
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/provider/MetaDataProvider.java

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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/PropertyMetadata.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/provider/MetaDataProvider.java
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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/xml/ConstrainedTypeBuilder.java
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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/xml/GroupConversionBuilder.java

* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/messageinterpolation/HibernateMessageInterpolatorContext.java
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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
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* /opt/cola/permits/1110675258_1654022841_038837/0/hibernate-validator-5-1-3-final-sources-2.jar/org/hibernate/validator/internal/util/scriptengine/ScriptEvaluator.java
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A method-level constraint, that evaluates a script expression against the annotated method or constructor. This constraint can be used to implement validation routines that depend on several parameters of the annotated executable.

Script expressions can be written in any scripting or expression language, for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> compatible engine can be found on the classpath. To refer to a parameter within the scripting expression, use its name as obtained by the active parameter name provider. By default, @code arg0, @code arg1 etc. will be used as parameter names.

The following listing shows an example using the JavaScript engine which comes with the JDK:
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* <p>
* Can be specified on any method or constructor.
* </p>
*
* @author Gunnar Morling
*/

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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/impl/resourceloading/DelegatingResourceBundleLocator.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/spi/resourceloading/ResourceBundleLocator.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-jar/org/hibernate/validator/internal/engine/ValidationContext.java
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  jar/org/hibernate/validator/spi/group/DefaultGroupSequenceProvider.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
  jar/org/hibernate/validator/internal/engine/messageinterpolation/el/MapBasedFunctionMapper.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
  jar/org/hibernate/validator/internal/metadata/aggregated/GroupConversionHelper.java
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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
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* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-
  jar/org/hibernate/validator/spi/group/DefaultGroupSequenceProvider.java
* /opt/cola/permits/1110675258_1654022841.038837/0/hibernate-validator-5-1-3-final-sources-2-

1.128 eigenbase-properties 1.1.0.10924
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* /opt/cola/permits/1136608113_1613806609.40/jul-to-slf4j-1-7-28-sources-1-
  jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.130 lapack 0.3.7-r0

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jar/io/netty/util/collection/LongObjectMap.java
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* /opt/cola/permits/1073005763_1602084526.3/0/netty-common-4.1.31-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
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 * This following method is a modified version of one found in
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collections/ReverseOrdering.java
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jar/jersey/repackaged/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/eventbus/AllowConcurrentEvents.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingObject.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/eventbus/AnnotatedSubscriberFinder.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collection/NaturalOrdering.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collection/Interners.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collection/AllEqualOrdering.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingNavigableSet.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collection/RegularImmutableAsList.java

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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/reflect/TypeVisitor.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/base/Utf8.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/base/VerifyException.java

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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collect/SortedIterable.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/escape/CharEscaperBuilder.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/util/concurrent/ListeningExecutorService.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collection/MinMaxPriorityQueue.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/collection/ForwardingSetMultimap.java

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jar/jersey/repackaged/com/google/common/hash/HashingOutputStream.java
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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/hash/Hashing.java
* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/hash/AbstractStreamingHashFunction.java

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* /opt/cola/permits/1151187802_1617805373.47/0/jersey-guava-2-22-2-sources-4-jar/jersey/repackaged/com/google/common/eventbus/SubscriberExceptionContext.java

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLibCFLAGS = -fPIC
SHAREDLibCXXFLAGS = -fPIC
SHAREDLibCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADS CPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp

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$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n | sed \"%s/\(^.*\)\(\.*\)\(\.*\)\/\/g\" > $@; \n [ -s $@ ] || rm -f $@
'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n | sed \"%s/\(^.*\)\(\.*\)\(\.*\)\/\/g\" > $@; \n [ -s $@ ] || rm -f $@
'

## Versioned libraries rules

%.$SO.$SO_TARGET_VERSION_MAJO: %.$SO.$SO_TARGET_VERSION
$(RM) $@ && ln -s ${<F} $@

%.$SO: %.$SO.$SO_TARGET_VERSION_MAJO
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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<body>
<script type="text/javascript">prefix='';</script>

<script src="templates/header.js" type="text/javascript"></script>
<div id="left">
<script src="templates/left.js" type="text/javascript"></script>
</div>
<div id="right">
<script src="templates/right.js" type="text/javascript"></script>
</div>
<div id="content">
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</div>
</body>
</html>
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1.144 httpClient 4.5.6

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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableAsList.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/ImmutableSetMultimap.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/RegularImmutableList.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/PairwiseEquivalence.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/AbstractSortedMultiset.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/BoundType.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/hash/HashCode.java

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  jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
  jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-
  jar/com/google/common/util/concurrent/InterruptibleTask.java
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  jar/com/google/common/util/concurrent/AsyncCallable.java
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  jar/com/google/common/util/concurrent/AggregateFutureState.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/MultimapBuilder.java

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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/MultiReader.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
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jar/com/google/common/base/internal/Finalizer.java

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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/package-info.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/eventbus/package-info.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/eventbus/package-info.java
jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ExecutionList.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/package-info.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/ForwardingListMultimap.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collection/SortedMapDifference.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
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* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/escape/ArrayBasedCharEscaper.java
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jar/com/google/thirdparty/punycode/ICANN2018_PunycodeStringType.java

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  */opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
  */opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
  */opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/util/concurrent/Futures.java
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  */opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/escape/CharEscaperBuilder.java
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  */opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/escape/CharEscaper.java
  */opt/cola/permits/1000875368_1646171529.3/0/guava-20-0-sources-jar/com/google/common/io/PatternFilenameFilter.java
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 */
/**
*/

* Holder for extra methods of {code Objects} only in web. Intended to be empty for regular
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*/

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   jar/com/google/common/collect/SingletonImmutableBiMap.java
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   jar/com/google/common/collect/PeekingIterator.java
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   jar/com/google/common/collect/Collections2.java
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/**
* Outer class that exists solely to let us write [ @code Partially.GwtIncompatible] instead of plain
* [ @code GwtIncompatible]. This is more accurate for [ @link Futures#catching], which is available
* under GWT but with a slightly different signature.
*
* &lt;p&gt;We can't use [ @code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
* it as a [ @code GwtIncompatible] annotation. And for [ @code Futures.catching], we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
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 */

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1.149 libfastjson 0.99.4-3.el7

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*/
/**
 * Set the [@code TCP_MD5SIG] option on the socket. See [@code linux/tcp.h] for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/io/netty/channel/epoll/EpollEventLoop.java
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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/io/netty/channel/epoll/package-info.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/io/netty/channel/epoll/EpollChannelOption.java

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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/netty_epoll_native.c
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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/netty_epoll_linuxsocket.c
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources.jar/netty_epoll_linuxsocket.h

1.158 hibernate-swarmcache 3.6.10.Final

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* /opt/cola/permits/1091709667_1654022840.0504751/0/hibernate-swarmcache-3-6-10-final-sources.jar/org/hibernate/cache/SwarmCache.java

1.159 asm-all-repackaged 2.3.0-b10
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* /opt/cola/permits/1106204222_1605323231.93/0/asm-all-repackaged-2-3-0-b10-sources-
jar/org/glassfish/hk2/external/org/objectweb/asm/TypeReference.java
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/**
* Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
* not use this constructor</i>. Instead, they must use the
* [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
* version.
* @param typeRef
* a reference to the annotated type. See [@link TypeReference].
* @param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* @param start
* the fist instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).
* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.
* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this</i> constructor. Instead, they must use the
 * @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]) version.
 *
 * @param mv the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access the method's access flags (see @link Opcodes). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name the method's name.
 * @param desc the method's descriptor (see @link Type).
 * @param signature the method's signature. May be <tt>null</tt>.
 * @param exceptions the internal names of the method's exception classes (see
 * @link Type#getInternalName() getInternalName()). May be
 * <tt>null</tt>.
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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/**
 * Creates a new {AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 */
* version.
* 
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see { @link Opcodes }).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see { @link Type Type}).
* @param mv
* the method visitor to which this adapter delegates calls. May be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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 *
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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Creates a new [GeneratorAdapter]. <i>Subclasses must not use this
constructor</i>. Instead, they must use the
[GeneratorAdapter(int, MethodVisitor, int, String, String)]
version.

@param mv the method visitor to which this adapter delegates calls.
@param access the method's access flags (see [Opcodes]).
@param name the method's name.
@param desc the method's descriptor (see [Type]).
@throws IllegalStateException If a subclass calls this constructor.

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Constructs a new [ClassNode]. Subclasses must not use this constructor. Instead, they must use the [ClassNode(int)] version.

@throws IllegalStateException If a subclass calls this constructor.
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* /opt/cola/permits/1136594665_1613806531.48/0/spring-core-5-0-8-release-sources-3-jar/org/springframework/core/io/support/PropertyResolver.java
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* /opt/cola/permits/1136594665_1613806531.48/0/spring-core-5-0-8-release-sources-3-jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
* /opt/cola/permits/1136594665_1613806531.48/0/spring-core-5-0-8-release-sources-3-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
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1.164 slf4j 1.7.7.jbossorg-1

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1.165 jdk-adoptopen 1.8.0u242

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  jar/javax/validation/constraints/AssertTrue.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
  jar/javax/validation/constraints/Size.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
  jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
  jar/javax/validation/Payload.java
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  jar/javax/validation/constraints/AssertFalse.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
  jar/javax/validation/constraints/Null.java
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  jar/javax/validation/constraints/Constraint.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
  jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
  jar/javax/validation/spi/ValidationProvider.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
  jar/javax/validation/metadata/ElementDescriptor.java
* /opt/cola/permits/1110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/metadata/ConstraintDescriptor.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/ConstraintDefinitionException.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/ConstraintValidator.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/constraints/Digits.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/GroupDefinitionException.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/validation/UnexpectedTypeException.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/metadata/Scope.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/constraints/Future.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/metadata/PropertyDescriptor.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/ValidationProviderResolver.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/constraints/Past.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/bootstrap/GenericBootstrap.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/Validation.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/groups/Default.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/constraints/Max.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/spi/BootstrapState.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/validation/ValidationException.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/ConstraintDeclarationException.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/constraints/Min.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/Validation/OveridesAttribute.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/TraversableResolver.java
* /opt/cola/permits/110666980_1606842266.81/0/validation-api-1-1-0-final-sources-4-
jar/javax/validation/Valid.java
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* /opt/cola/permits/1110677087_1654022900.5088656/0/jboss-spi-3-2-2-final-sources-1-jar/org/jboss/wsf/spi/metadata/j2ee/serviceref/UnifiedServiceRefMetaData.java
* /opt/cola/permits/1110677087_1654022900.5088656/0/jboss-spi-3-2-2-final-sources-1-jar/org/jboss/wsf/spi/metadata/webservices/JBossWebservicesFactory.java
* /opt/cola/permits/1110677087_1654022900.5088656/0/jboss-spi-3-2-2-final-sources-1-jar/org/jboss/wsf/spi/invocation/NamespaceContextSelectorWrapper.java

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 */
/**
 * Constructs a new [ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

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/**
  * Creates a new JSRInliner. <i>Subclasses must not use this
  * constructor</i>. Instead, they must use the
  * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
  * version.
  *
  * @param mv
  *            the <code>MethodVisitor</code> to send the resulting inlined
  *            method code to (use <code>null</code> for none).
  * @param access
  *            the method's access flags (see {@link Opcodes}). This
  *            parameter also indicates if the method is synthetic and/or
  *            deprecated.
  * @param name
  *            the method's name.
  * @param desc
  *            the method's descriptor (see {@link Type}).
  * @param signature
  *            the method's signature. May be <tt>null</tt>.
  * @param exceptions
  *            the internal names of the method's exception classes (see
  *            { @link Type#getName()}). May be
* <tt>null</tt>.
* @throws IllegalStateException
  * If a subclass calls this constructor.
* /

Found in path(s):
* /opt/cola/permits/1001477335_1606843073.05/0/asm-tree-5-0-1-sources-1-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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/**
* Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
* not use this constructor</i>. Instead, they must use the
* [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
* version.
* *
* @param typeRef
*  * a reference to the annotated type. See [@link TypeReference].
* @param typePath
* the path to the annotated type argument, wildcard bound, array element type, or static inner type within 'typeRef'. May be <tt>null</tt> if the annotation targets 'typeRef' as a whole.

* @param start
* the first instructions corresponding to the continuous ranges that make the scope of this local variable (inclusive).

* @param end
* the last instructions corresponding to the continuous ranges that make the scope of this local variable (exclusive). This array must have the same size as the 'start' array.

* @param index
* the local variable's index in each range. This array must have the same size as the 'start' array.

* @param desc
* the class descriptor of the annotation class.

*/

Found in path(s):
  * /opt/cola/permits/1001477335_1606843073.05/0/asm-tree-5-0-1-sources-1-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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  * /opt/cola/permits/1001477335_1606843073.05/0/asm-tree-5-0-1-sources-1-jar/org/objectweb/asm/optimizer/shrink.properties
  * /opt/cola/permits/1001477335_1606843073.05/0/asm-tree-5-0-1-sources-1-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
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/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see { @link Opcodes }).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type Type }).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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 * Creates a new [GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 *
 * @param access
 * the method's access flags (see [Opcodes]).
*/
/**
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see {@link Type Type}).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):
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/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link Textifier(int)}
 * constructor. Instead, they must use the {@link Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1001477335_1606843073.05/0/asm-tree-5-0-1-sources-1-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1001477335_1606843073.05/0/asm-tree-5-0-1-sources-1-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
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1.175 spring-expression 5.1.9.RELEASE

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* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
jar/org/springframework/expression/spel/ast/Operator.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
jar/org/springframework/expression/spel/ast/InlineMap.java
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jar/org/springframework/expression/spel/ast/MethodReference.java
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jar/org/springframework/expression/spel/ast/Indexer.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
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* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
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* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-jar/org/springframework/expression/MethodResolver.java
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* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
  jar/org/springframework/expression/spel/SpelCompilerMode.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
  jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
  jar/org/springframework/expression/spel/CompilablePropertyAccessor.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
  jar/org/springframework/expression/spel/ast/OperatorBetween.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-
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  jar/org/springframework/expression/MethodFilter.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-

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* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-jar/org/springframework/expression/spel/ast/AstUtils.java
* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-jar/org/springframework/expression/spel/ast/EvaluationContext.java
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* /opt/cola/permits/1136608050_1613807132.11/0/spring-expression-5-1-9-release-sources-1-jar/org/springframework/expression/spel/spel/Standard/SpelCompiler.java
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 */
/** The confidential flag */
/**
 * Constructor
 * @param name The name
 * @param dynamic Does this config property support dynamic updates
 * @param confidential Is this config property confidential
 */
/**
 * Get the confidential flag
 * @return The value
 */

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1.185 hornetq-client 2.4.7.Final

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1.186 perl 1.04-295.el7
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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.
buildRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
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repository: http://github.com/dagolden/module-build/
version: 3

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<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19xx name of author
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    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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commands you use may be called something other than `show w' and `show
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necessary. Here a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
}
my $current_year = (gmtime)[5] + 1900;
is $v_year, $current_year, 'perl -v copyright includes current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";
  # The copyright message is the first paragraph:
  local $/ = ";
  my $copyright_msg = <$readme>;
  my ($year) = $copyright_msg =~ /.*\d{4,}/s
    or die "Year not found in README copyright message $copyright_msg";
  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /orientation 1987.*\b\d\d\d\d/s
    or die "Copyright statement not found in perl -v output $output";
  $year;
}
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+++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.
The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a “work based on the library” and a “work that uses the library”. The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
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You are not responsible for enforcing compliance by third parties to
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software—to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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*/
/**
* Encodes and decodes to and from Base64 notation.
*
* Change Log:
* </p>
* <ul>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).</li>
* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
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*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.1
*/

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* /opt/cola/permits/1002303103_1654022954.387883/0/picketbox-commons-1-0-0-final-sources-
  jar/org/picketbox/commons/cipher/Base64.java
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* /opt/cola/permits/1002303103_1654022954.387883/0/picketbox-commons-1-0-0-final-sources-
  jar/org/picketbox/commons/cipher/PBEUtils.java
* /opt/cola/permits/1002303103_1654022954.387883/0/picketbox-commons-1-0-0-final-sources-
  jar/org/picketbox/commons/ssl/RetrieveCertificate.java
* /opt/cola/permits/1002303103_1654022954.387883/0/picketbox-commons-1-0-0-final-sources-
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1.190 wildfly-weld 14.0.1.Final

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* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-jar/org/wildfly/common/iteration/ByteArrayIterator.java
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* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-jar/org/wildfly/common/iteration/Utf8DecodingByteIterator.java
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* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-jar/org/wildfly/common/iteration/Utf8EncodingByteIterator.java
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* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-jar/org/wildfly/common/math/package-info.java
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  jar/org/wildfly/common/function/ExceptionLongFunction.java
* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-
  jar/org/wildfly/common/function/ExceptionObjIntConsumer.java
* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-
  jar/org/wildfly/common/function/ExceptionToLintBiFunction.java
* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-
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* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-
  jar/org/wildfly/common/function/ExceptionConsumer.java
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  jar/org/wildfly/common/function/ExceptionBinaryOperator.java
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  jar/org/wildfly/common/function/ExceptionUnaryOperator.java
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* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-jar/org/wildfly/common/package-info.java
* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-jar/org/wildfly/common/cpu/CacheInfo.java

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jar/org/wildfly/common/ref/PhantomReference.java
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* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-
jar/org/wildfly/common/ref/Reference.java
* /opt/cola/permits/1110675584_1606844033.49/0/wildfly-common-1-4-0-final-sources-1-
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1.196 opensaml-xacml-saml-api 3.3.0
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* /opt/cola/permits/1003070079_1646171687.1/0/opensaml-xacml-saml-api-3-3-0-sources-jar/org/opensaml/xacml/profile/saml/XACMLPolicyQueryType.java
* /opt/cola/permits/1003070079_1646171687.1/0/opensaml-xacml-saml-api-3-3-0-sources-jar/org/opensaml/xacml/profile/saml/SAMLProfileConstants.java
* /opt/cola/permits/1003070079_1646171687.1/0/opensaml-xacml-saml-api-3-3-0-sources-jar/org/opensaml/xacml/profile/saml/package-info.java

1.197 hunspell-en-ca 0.20121024-6.el7

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Alan Beale <biljir@pobox.com> also deserves special credit as he has,
in addition to providing the 12Dicts package and being a major
contributor to the ENABLE word list, given me an incredible amount of
feedback and created a number of special lists (those found in the
Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to
the Moby (TM) Words II [MWords] package), a subset of the 1000 most
common words on the Internet (again, according to Moby Words II), and
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From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

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source. An earlier version of the list resided in a filespace called
PUBLIC on the University mainframe, because it was considered public
domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.
The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

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The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files form the Census report is a government document which I don't think can be copyrighted.

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The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

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The 95 level includes the 354,984 single words, 256,772 compound words, 4,946 female names and the 3,897 male names, and 21,986 names from the MWords package, ABLE.LST from the ENABLE Supplement, and some additional words found in my part-of-speech database that were not found anywhere else.

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1.198 wildfly-clustering-web-api 14.0.1.Final

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1.202 python-ipy 0.75-6.el7

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1.203 jackson-dataformat-yaml 2.10.5

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1.204 kr-text 0.2.0

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1.205 hibernate 3.6.10.Final

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/BloomFilterStrategies.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/AbstractSortedMultiset.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractStreamingHashFunction.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/Hasher.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/ForwardingSortedMap.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/base/FinalizablePhantomReference.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5.jar/com/google/common/collect/Multimap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/MutableClassToInstanceMap.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
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  jar/com/google/common/collection/MapMaker.java
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* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Equivalence.java
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kmodtool - Helper script for building kernel module RPMs
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kmodtool - Helper script for building kernel module RPMs
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SOpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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libcairo.so.2
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libgcc_s.so.1
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Version 2.8.3 Thu Sep 22 11:16:15 2005 Doug Lea (dl at gee)

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rijndaal-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndaal cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Written by: Philip Hazel
Email local part: ph10
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Version 2.8.3 Thu Sep 22 11:16:15 2005 Doug Lea  (dl at gee)

Note: There may be an updated version of this malloc obtainable at ftp://gee.cs.oswego.edu/pub/misc/malloc.c
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ftglue.c: Glue code for compiling the OpenType code from FreeType 1 using only the public API of FreeType 2

By David Turner, The FreeType Project (www.freetype.org)

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libSM.so.6
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libXinerama.so.1
libXrandr.so.2
libXrender.so.1
libatk-1.0.so.0
libatkmm-1.6.so.1
libcairo.so.2
libcairomm-1.0.so.1
libconf
libdnet.so.1
libexpat.so.6
libfontconfig.so.1
libfreetype.so.9
libgcc_s.so.1
libgd-2.0.so.0
libgd-pixbuf-2.0.so.0
libgd_pixmap_xlib-2.0.so.0
libgdmm-2.4.so.1
libglib-2.0.so.0
libglibmm-2.4.so.1
libglibmm_generate_extra_defs-2.4.so.1
libgmodule-2.0.so.0
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FreeType font driver for pcf fonts

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version 1.0 - 1999.10.15 - First version.
version 1.1 - 2015.07.29 - Fixed leaks (Glenn Randers-Pehrson)
version 1.2 - 2017.04.22 - Add buffer-size check
1.3 - 2017.08.24 - Fix potential overflow in buffer-size check
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1.4 - 2017.08.28 - Add PNGMINUS_UNUSED (Christian Hesse)

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Keywords: libxml documentation

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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match.S optimized version of longest_match()
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zlib1.2.11.tar.gz\zlib1.2.11.tar\zlib1.2.11\examples\zpipe.c

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Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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Version 2.8.3 Thu Sep 22 11:16:15 2005 Doug Lea (dl at gee)

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openssl-1.0.2m.tar\openssl-1.0.2m\crypto\aes\aes_core.c

rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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>>> pcre-8.41

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Written by: Philip Hazel
Email local part: ph10
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version 1.0 - 1999.10.15 - First version.
version 1.1 - 2015.07.29 - Fixed leaks (Glenn Randers-Pehrson)
version 1.2 - 2017.04.22 - Add buffer-size check
1.3 - 2017.08.24 - Fix potential overflow in buffer-size check
(Glenn Randers-Pehrson)
1.4 - 2017.08.28 - Add PNGMINUS_UNUSED (Christian Hesse)

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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match.S -- optimized version of longest_match()
based on the similar work by Gilles Vollant, and Brian Raiter, written 1998

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Version 2.0, January 2004
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* /opt/ws_local/PERMITS_SQL/1091710000_1600571783.41/0/spring-beans-4-0-2-release-sources-jar/org/springframework/beans/factory/config/SingletonBeanRegistry.java
* /opt/ws_local/PERMITS_SQL/1091710000_1600571783.41/0/spring-beans-4-0-2-release-sources-jar/org/springframework/beans/AbstractPropertyAccessor.java
* /opt/ws_local/PERMITS_SQL/1091710000_1600571783.41/0/spring-beans-4-0-2-release-sources-jar/org/springframework/beans/factory/parsing/EmptyReaderEventListener.java
* /opt/ws_local/PERMITS_SQL/1091710000_1600571783.41/0/spring-beans-4-0-2-release-sources-jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java
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* /opt/ws_local/PERMITS_SQL/1091710486_1600572128.55/0/wildfly-elytron-x500-cert-acme-1-11-2-final-sources-jar/org/wildfly/security/x500/cert/acme/Acme.java
* /opt/ws_local/PERMITS_SQL/1091710486_1600572128.55/0/wildfly-elytron-x500-cert-acme-1-11-2-final-sources-jar/org/wildfly/security/x500/cert/acme/AcmeResource.java

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* /opt/ws_local/PERMITS_SQL/1091710486_1600572128.55/0/wildfly-elytron-x500-cert-acme-1-11-2-final-sources-jar/org/wildfly/security/x500/cert/acme/AcmeClientSpi.java

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1.236 tomcat-embed-websocket 9.0.17

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1.237 python-keystoneauth1 4.2.0

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1.238 asm 7.1

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1.239 spring-boot-starter-json 2.0.4.RELEASE

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1.240 zlib 1.2.11

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* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/SpnegoUserIdentity.java
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jar/org/eclipse/jetty/security/LoginService.java
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* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/authentication/BasicAuthenticator.java
* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/ServerAuthException.java
* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/authentication/FormAuthenticator.java
* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/DefaultIdentityService.java
* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/IdentityService.java
* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/authentication/LoginCallbackImpl.java
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* /opt/cola/permits/1001043161_1646171566.11/0/jetty-security-8-1-7-v20120910-sources-jar/org/eclipse/jetty/security/CrossContextPsuedoSession.java
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* /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-jar/org/springframework/dao/TransientDataAccessException.java
* /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
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* /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-jar/org/springframework/dao/NonTransientDataAccessResourceException.java
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  * /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-
  jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
  * /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-
  jar/org/springframework/transaction/event/TransactionalEventListener.java
  * /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-
  jar/org/springframework/transaction/reactive/TransactionSynchronization.java
  * /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-
  jar/org/springframework/transaction/interceptor/TransactionAttribute.java
  * /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-
  jar/org/springframework/transaction/TransactionStatus.java
  * /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-
  jar/org/springframework/transaction/TransactionExecution.java
  * /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-
  jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
  * /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-
  jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
  * /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-
  jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
  * /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-
  jar/org/springframework/transaction/event/ApplicationListenerMethodTransactionalAdapter.java

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* /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java

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* /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
* /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/ws_local/PERMITS_SQL/1068290250_1594347763.88/0/spring-tx-5-2-2-release-sources-1-jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
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1.245 glibc 2.17-317.el7

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lr-xr-xr-x  1 0 0 [LSN 27]   7 Mar 05 2005 15:26:00 Copy2 -> COPYING
-r--r--r--  1 0 0 [LSN 27] 17992 Mar 05 2005 15:25:51 COPYING
br--r--r--  1 0 0 [LSN 36]   0 Mar 05 2005 15:32:05 fd0
dr-xr-xr-x  2 0 0 [LSN 25] 2048 Mar 05 2005 16:12:25 tmp
cr--r--r--  1 0 0 [LSN 36]   0 Mar 05 2005 15:31:42 zero

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dr-xr-xr-x  4 0 0 [LSN 23] 2048 Mar 05 2005 16:12:25 ..
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  -r-xr-xr-x  1 0 0 [LSN 27] 0 Mar 05 2005 15:26:00 Copy2
  -r-r--r--   1 0 0 [LSN 27] 17992 Mar 05 2005 15:25:51 COPYING
  -r-r--r--   1 0 0 [LSN 36] 0 Mar 05 2005 15:32:05 fd0
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  cr--r--r--   1 0 0 [LSN 36] 0 Mar 05 2005 15:31:42 zero
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1.253 libbluray 0.2.3-5.el7

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1.260 maven-javadoc-plugin 2.6.1

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1.261 poi-ooxml-schemas 3.15

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1.264 bzip2 1.0.6 13.el7

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* /opt/cola/permits/1136607965_1613807193.84/0/spring-beans-5-1-9-release-sources-1-jar/org/springframework/beans/factory/support/NullBean.java
* /opt/cola/permits/1136607965_1613807193.84/0/spring-beans-5-1-9-release-sources-1-jar/org/springframework/beans/factory/config/EmbeddedValueResolver.java
* /opt/cola/permits/1136607965_1613807193.84/0/spring-beans-5-1-9-release-sources-1-jar/org/springframework/beans/factory/annotation/CustomAutowireConfigurer.java
* /opt/cola/permits/1136607965_1613807193.84/0/spring-beans-5-1-9-release-sources-1-jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
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* /opt/cola/permits/1136607965_1613807193.84/0/spring-beans-5-1-9-release-sources-1-jar/org/springframework/beans/BeanMetadataAttributeAccessor.java
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1.268 netty-codec 4.1.31.Final

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* Change Log:

* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (int's that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed) - Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).
* v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.
* v1.3 - Fixed bug when decompressing and decoding to a byte[] using decode().
* v1.2 - Added helper methods to read/write files.
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jar/org/postgresql/translation/messages.pot
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* /opt/cola/permits/1021538811_1607117608.74/0/postgresql-9-4-1211-jre7-sources-jar/org/postgresql/Driver.java

1.272 junit 4.12

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**1.274 util-linux 2.23.2-61.el7_7.1**

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*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83  
#2: 7680 8704 0xa5  
#5: 7936 4864 0x7 (freebsd)
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Version 2, June 1991

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---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
----------  ------  ------  -------  ---  -----
__ts_dev__1            2048        4095        1024   83  Linux

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
----------  ------  ------  -------  ---  -----
__ts_dev__1            2048        4095        1024   83  Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
----------  ------  ------  -------  ---  -----
__ts_dev__1            2048        4095        1024   83  Linux
__ts_dev__2            4096       20479        8192   a5  FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#    start   end   size  fstype  [fsize bsize  cpg]
c:  4096   20479  16384 unused    0     0
d:   0   16064   16065 unused    0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img
---layout--------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#    start   end   size  fstype  [fsize bsize  cpg]
a:  4096    6144   2049  4.2BSD    0     0     0
c:  4096   20479  16384 unused    0     0
d:   0   16064   16065 unused    0     0

BSD disklabel command (m for help):
Command (m for help):
-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused      5  4.1BSD     9  4.4LFS    d  boot
1  swap       6  Eighth Edition a  unknown   e  ADOS
BSD disklabel command (m for help):

1.275 samba 4.10.4 10.el7

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1.276 springfox-core 2.9.2

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* /opt/cola/permits/1110677282_1654022986.6563966/0/wildfly-clustering-service-14-0-1-final-sources-1.jar/org/wildfly/clustering/service/ServiceNameProvider.java

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* /opt/cola/permits/1110676931_1606843905.05/0/netty-buffer-4-1-24-final-sources-1-jar/io/netty.buffer/ByteBufProcessor.java
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* /opt/cola/permits/1110676931_1606843905.05/0/netty-buffer-4-1-24-final-sources-1-
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* /opt/cola/permits/1110676931_1606843905.05/0/netty-buffer-4-1-24-final-sources-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
* /opt/cola/permits/1110676931_1606843905.05/0/netty-buffer-4-1-24-final-sources-1-jar/io/netty/buffer/PooledSlicedByteBuf.java
* /opt/cola/permits/1110676931_1606843905.05/0/netty-buffer-4-1-24-final-sources-1-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
1.283 spring-boot-autoconfigure

2.1.6.RELEASE

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* /opt/cola/permits/1110675459_1654022859.7035303/0/ironjacamar-jdbc-1-4-11-final-sources-1-
jar/org/jboss/jca/adapters/jdbc/util/SecurityActions.java
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  jar/org/jboss/jca/adapters/jdbc/util/LRUCache.java
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  jar/org/jboss/jca/adapters/jdbc/local/SecurityActions.java
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 * <p>This class is an implementation of ValidConnectionChecker for MySQL
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 * connection object.
 * 
 * <p>Please note that the isValid method requires java 6 classes to be present.
 * 
 * <p>The code was inspired by MySQLValidConnectionChecker. See it's javadoc for
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* /opt/cola/permits/1110675459_1654022859.7035303/0/ironjacamar-jdbc-1-4-11-final-sources-1-jar/org/jboss/jca/adapter/jdbc/extensions/mssql/MSSQLValidConnectionChecker.java
* /opt/cola/permits/1110675459_1654022859.7035303/0/ironjacamar-jdbc-1-4-11-final-sources-1-jar/org/jboss/jca/adapter/jdbc/WrappedConnectionFactory.java
* /opt/cola/permits/1110675459_1654022859.7035303/0/ironjacamar-jdbc-1-4-11-final-sources-1-jar/org/jboss/jca/adapter/jdbc/extensions/novendor/NullStaleConnectionChecker.java
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* /opt/cola/permits/1110675459_1654022859.7035303/0/ironjacamar-jdbc-1-4-11-final-sources-1-jar/org/jboss/jca/adapter/jdbc/extensions/oracle/OracleStaleConnectionChecker.java
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* /opt/cola/permits/1110675459_1654022859.7035303/0/ironjacamar-jdbc-1-4-11-final-sources-1-jar/org/jboss/jca/adapter/jdbc/extensions/mysql/MySQLExceptionSorter.java
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  jar/org.jboss/jca/adapters/jdbc/util/ReentrantLock.java
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1.289 asm-tree 5.0.4

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 */
/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 */
* version.
* *
* @param owner
*       the owner's class name.
* @param access
*       the method's access flags (see {@link Opcodes}).
* @param name
*       the method's name.
* @param desc
*       the method's descriptor (see {@link Type}).
* @param mv
*       the method visitor to which this adapter delegates calls. May
*       be <tt>null</tt>.
* @throws IllegalStateException
*       If a subclass calls this constructor.
*/

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* /opt/cola/permits/1000772141_1646171509.25/0/asm-tree-5-0-4-sources-jar/org/objectweb/asm/util/ASMifiable.java
* /opt/cola/permits/1000772141_1646171509.25/0/asm-tree-5-0-4-sources-jar/org/objectweb/asm/util/Textifiable.java

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Constructs a new [Textifier]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [Textifier(int)] version.

@throws IllegalStateException
     If a subclass calls this constructor.

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*/
/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [@link TypeReference].
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 *
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 *
 * @param desc
 * the class descriptor of the annotation class.
 */

Found in path(s):
* /opt/cola/permits/1000772141_1646171509.25/0/asm-tree-5-0-4-sources-
  jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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* /opt/cola/permits/1000772141_1646171509.25/0/asm-tree-5-0-4-sources-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1000772141_1646171509.25/0/asm-tree-5-0-4-sources-jar/
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/**
* Constructs a new {@link ClassNode}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the {@link #ClassNode(int)}
* version.
* @throws IllegalStateException
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/**
* Creates a new [@link GeneratorAdapter]. *Subclasses must not use this
* constructor*. Instead, they must use the
* [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
*
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type}).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getInternalName() getInternalName }). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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1.293 jakarta activation api 1.2.1

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Schema for XML Signatures
http://www.w3.org/2000/09/xmldsig#

$Revision: 1.2 $ on $Date: 2005/06/03 03:09:54 $ by $Author: cantor$

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 */
/**
 * Encodes and decodes to and from Base64 notation.
 *
 * Change Log:
 */
<ul>
<li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading
 * and writing to and from files.</li>
<li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like
* EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.
* The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically.
* Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (\texttt{int}s that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using \texttt{decode( String s, boolean gzipCompressed )}. Added the ability to "suspend" encoding in the Output Stream
* so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).
* v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Fixed flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.
* <ul>
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  *
  *
  * @author Robert Harder
  * @author rob@iharder.net
  * @version 2.1
  */

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1.296 groff 1.22.2 8.el7
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Source Files
-------------

- The file `src/libs/snprintf/snprintf.c`, written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

http://www.ijs.si/software/snprintf/.

- The `grn` preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

- The `xditview` output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>' e.g. `hyphen.de' or `hyphen.uk'.

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The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex

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The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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Found in path(s):

* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/InetAddressResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1110676446_1606843336.12/0/netty-resolver-4-1-34-final-sources-1-
  jar/io/netty/resolver/HostsFileEntriesResolver.java
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1.301 mapstruct 1.2.0.Final

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1.305 pkix-ssh 10.1

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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 * List all new newsgroups added to the NNTP server since a particular
 * date subject to the conditions of the specified query. If no new
 * newsgroups were added, a zero length array will be returned. If the
 * command fails, null will be returned.
 * <p>
 * @param query The query restricting how to search for new newsgroups.
 * @return An array of NewsgroupInfo instances containing the information
 * for each new newsgroup added to the NNTP server. If no newsgroups
 * were added, a zero length array will be returned. If the command
 * fails, null will be returned.
 * @exception NNTPConnectionClosedException
 *     If the NNTP server prematurely closes the connection as a result
 *     of the client being idle or some other reason causing the server
 *     to send NNTP reply code 400. This exception may be caught either
 */
as an IOException or independently as itself.

@exception IOException If an I/O error occurs while either sending a
command to the server or receiving a reply from the server.

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jar/org/apache/commons/net/telnet/SimpleOptionHandler.java
* /opt/cola/permits/1001160960_1646171633.61/0/commons-net-1-4-1-sources-
jar/org/apache/commons/net/telnet/TerminalTypeOptionHandler.java
* /opt/cola/permits/1001160960_1646171633.61/0/commons-net-1-4-1-sources-
jar/org/apache/commons/net/telnet/Telnet.java
* /opt/cola/permits/1001160960_1646171633.61/0/commons-net-1-4-1-sources-
jar/org/apache/commons/net/telnet/InvalidTelnetOptionException.java
* /opt/cola/permits/1001160960_1646171633.61/0/commons-net-1-4-1-sources-
jar/org/apache/commons/net/telnet/TelnetInputStream.java
* /opt/cola/permits/1001160960_1646171633.61/0/commons-net-1-4-1-sources-
jar/org/apache/commons/net/telnet/TelnetOptionHandler.java
* /opt/cola/permits/1001160960_1646171633.61/0/commons-net-1-4-1-sources-
jar/org/apache/commons/net/telnet/EchoOptionHandler.java
* /opt/cola/permits/1001160960_1646171633.61/0/commons-net-1-4-1-sources-
jar/org/apache/commons/net/telnet/SuppressGAOptionHandler.java
* /opt/cola/permits/1001160960_1646171633.61/0/commons-net-1-4-1-sources-
jar/org/apache/commons/net/telnet/TelnetNotificationHandler.java
1.307 nginx 1.14.2-1.el7_4.ngx

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1.308 poi 3.9

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1.311 jackson-databind 2.10.0
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* @version 1.0
* @author Mikael Grev, MiG InfoCom AB
* Date: 2006-sep-08
*/
/** Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and
will not
* affect the flow or grid positions. The positioning is relative to the parent and can not (as padding) be used
* to adjust the edges relative to the old value. May be <code>null</code> and elements may be <code>null</code>. 
* <code>null</code> value(s) for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1
* and x2 will just absolutely positions the component.
* <p>
* Note that { @link #setBoundsInGrid(boolean) } changes the interpretation of this property slightly.
* <p>
* For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at
* @return The current value as a new array, free to modify.
*/
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 *
 * @version 1.0
 * @author Mikael Grev, MiG InfoCom AB
 * Date: 2006-sep-08
 */
 /** Returns the gaps as pixel values.
 * @param parent The parent. Used to get the pixel values.
 * @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).
 * @param refSize The reference size used to get the pixel sizes.
 * @param before IF it is the gap before rather than the gap after to return.
 * @return The [min,preferred,max] sizes for the specified gap. Uses {@link
 * net.miginfocom.layout.LayoutUtil#NOT_SET}
 * for gap sizes that are <code>null</code>. Returns <code>null</code> if there was no gap specified. A new and
 * free to use array.
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Found in path(s):
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-
  jar/net/miginfocom/layout/UnitValue.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/UnitConverter.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/swt/MigLayout.java
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* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/swt/SwtComponentWrapper.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/PlatformDefaults.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/demo/SwingDemo.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/swt/SwtContainerWrapper.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/ConstraintParser.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/ContainerWrapper.java
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* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/LC.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/swing/SwingContainerWrapper.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/ComponentWrapper.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/Grid.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/swing/MigLayout.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/IDEUtil.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/ResizeConstraint.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/demo/SwtDemo.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/AC.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/layout/BoundSize.java
* /opt/cola/permits/1150985938_1617740713.83/0/miglayout-3-5-5-sources-5-jar/net/miginfocom/swing/SwingComponentWrapper.java

1.319 runc v1.0.0-rc5

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* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
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  jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
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  jar/io/netty/handler/codec/compression/Bzip2Decoder.java
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  jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1110674855_1606844016.39/0/netty-codec-4-1-34-final-sources-1-
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
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/**
 * Enumeration of supported Base64 dialects.
 */

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 */

/**
 * A decoder that splits the received [link ByteBuf]s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * <p>
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <p>
 * <pre>
 * <b>lengthFieldOffset</b> = <b>0</b>
 * </pre>
 * <p>
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)

* BEFORE DECODE (14 bytes)     AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C  | "HELLO, WORLD" |      | 0x000C  | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* BEFORE DECODE (14 bytes)     AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C  | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>

* BEFORE DECODE (14 bytes)     AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C  | "HELLO, WORLD" |      | 0x000C  | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
The following message is a simple variation of the first example. An extra header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```
+b>lengthFieldOffset/b> = b>2/b> (= the length of Header 1)
+b>lengthFieldLength/b> = b>3/b>
+lengthAdjustment = 0
+initialBytesToStrip = 0
```

**BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)**

```
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
| 0xCAFE   | 0x00000C | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

```
+b>lengthFieldOffset = 0
+b>lengthFieldLength = 3
+b>lengthAdjustment/b> = b>2/b> (= the length of Header 1)
+initialBytesToStrip = 0
```

**BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)**

```
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
| 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
```

This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the lengthFieldOffset and the extra header affects the lengthAdjustment. We also specified a non-zero initialBytesToStrip to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify <tt>0</tt> for initialBytesToSkip.

* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b>(= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------+----------------+ +----------------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+----------------+ +----------------+----------------+
* </pre>
*<pre>
</pre>
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------+----------------+ +----------------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+----------------+ +----------------+----------------+
* </pre>
* @see LengthFieldPrepender
*/

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  jar/io/netty/handler/codec/compression/Crc32c.java
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* /opt/cola/permits/1110677187_1654023018.7995384/0/wildfly-process-controller-6-0-2-final-sources-1-
  jar/org/jboss/as/process/stdin/BaseNCodecOutputStream.java
* /opt/cola/permits/1110677187_1654023018.7995384/0/wildfly-process-controller-6-0-2-final-sources-1-
  jar/org/jboss/as/process/stdin/Base64InputStream.java
* /opt/cola/permits/1110677187_1654023018.7995384/0/wildfly-process-controller-6-0-2-final-sources-1-
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/**
 * Returns an <code>Iterator</code> over all the immediate child
 * [ @link Node ]s of this element. This includes <code>javax.xml.soap.Text</code>
 * objects as well as <code>SOAPElement</code> objects.
 * <p>
 * Calling this method may cause child <code>Element</code>,
 * <code>SOAPElement</code> and <code>org.w3c.dom.Text</code> nodes to be
 * replaced by <code>SOAPElement</code>, <code>SOAPHeaderElement</code>,
 * <code>SOAPBodyElement</code> or <code>javax.xml.soap.Text</code> nodes as
 * appropriate for the type of this parent node. As a result the calling
 * application must treat any existing references to these child nodes that
 * have been obtained through DOM APIs as invalid and either discard them or
 * refresh them with the values returned by this <code>Iterator</code>. This
 * behavior can be avoided by calling the equivalent DOM APIs. See
 * [ @link <a HREF="package-summary.html#package_description">javax.xml.soap</a>]
 * for more details.
 * <p>
 * @return an iterator with the content of this <code>SOAPElement</code>
 *         object
 */

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* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2-
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* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPConstants.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/MessageFactory.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPBodyElement.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPPart.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPFault.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/DetailEntry.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPMessage.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/MimeHeader.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPHeaderElement.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPConnection.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/Detail.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPEnvelope.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPElementFactory.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPFaultElement.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/FactoryFinder.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/AttachmentPart.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPHeader.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/Name.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPException.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPBody.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SAAJMetaFactory.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2.jar/javax/xml/soap/SOAPFactory.java
* /opt/cola/permits/1110675822_1654022905.8590186/0/jboss-saaj-api-1-3-spec-1-0-6-final-sources-2-
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 *
 * <p>
 * This class is used to encode and decode data in Base64 format as described in
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 *
 * <p>
 * source-code.biz/base64coder/java</a>
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  jar/org/yaml/sa...greebase/Escaper.java
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* /opt/cola/permits/1136142378_1654022973.6672878/0/snakeyaml-1-25-sources-2-
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  jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /opt/cola/permits/1136142378_1654022973.6672878/0/snakeyaml-1-25-sources-2-
  jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /opt/cola/permits/1136142378_1654022973.6672878/0/snakeyaml-1-25-sources-2-
  jar/org/yaml/snakeyaml/nodes/SequenceNode.java
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A Python binding for the gpgme library, used to drive the gpg command line program.

More information about gpgme can be found here:

This binding stays fairly close to the C API with the following exceptions:

* Memory management is not exposed to the user

* Functions like gpgme_get_foo()/gpgme_set_foo() are converted to attribute access on gpgme.Context objects.

* Functions that take gpgme_data_t arguments take arbitrary Python file-like objects. The read(), write(), seek() and tell() methods may be used on the object.

* Non-zero gpgme_error_t return values are converted to gpgme.error exceptions.

* Only the synchronous versions of functions have been wrapped. However, the Python global interpreter lock is dropped, so should play nicely in multi-threaded Python programs.

* Function pairs like gpgme_op_import()/gpgme_op_import_result() are combined into single method calls.

* The Python version of gpgme_op_keylist() returns an iterator over the matched keys, rather than requiring the user to use a special iteration function.

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Metadata-Version: 1.0
Name: pygpgme
Version: 0.3
Summary: A Python module for working with OpenPGP messages
Home-page: https://launchpad.net/pygpgme
Author: James Henstridge
Author-email: james@jamesh.id.au
License: LGPL
Description: PyGPGME is a Python module that lets you sign, verify, encrypt and
decrypt messages using the OpenPGP format.

It is built on top of the GNU Privacy Guard and the GPGME library.

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pygpgme - a Python wrapper for the gpgme library
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* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/exception/EncodingException.java
* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/exception/IllegalCharacterException.java
* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/ObjPtr.java
* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/transcode/TranscoderList.java
* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/specific/NonStrictUTF8Encoding.java
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* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/From_UTF_16BE_Transcoder.java

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* /opt/cola/permits/1000038730_1646171451.0/0/jcodings-1-0-12-sources-jar/org/jcodings/unicode/FixedWidthUnicodeEncoding.java

1.342 restat-bridge 5.9.0.Final

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1.343 python 3.7.6-1.el7.0atomix1

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization.
created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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* /opt/cola/permits/1091709827_1654022967.7457664/0/txoj-5-9-0-final-sources-jar/com/arjuna/ats/internal/txoj/recovery/TORecoveryModule.java
* /opt/cola/permits/1091709827_1654022967.7457664/0/txoj-5-9-0-final-sources-jar/com/arjuna/ats/internal/txoj/lockstore/BasicLockStore.java
* /opt/cola/permits/1091709827_1654022967.7457664/0/txoj-5-9-0-final-sources-jar/com/arjuna/ats/internal/txoj/LockListIterator.java
* /opt/cola/permits/1091709827_1654022967.7457664/0/txoj-5-9-0-final-sources-jar/com/arjuna/ats/txoj/txojLogger.java
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jar/com/arjuna/ats/txoj/LockManager.java
* /opt/cola/permits/1091709827_1654022967.7457664/0/txoj-5-9-0-final-sources-
jar/com/arjuna/ats/internal/txoj/lockstore/BasicPersistentLockStore.java
* /opt/cola/permits/1091709827_1654022967.7457664/0/txoj-5-9-0-final-sources-
jar/com/arjuna/ats/txoj/LockMode.java
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 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
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 * a specific entry in the model via the [link #setSourceKey sourceKey] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See [link #getSourceTypes() here]
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [link #setOutputProperties output properties]
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-
jar/org/springframework/web/servlet/view/xslt/XsltView.java
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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1.jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1.jar/org/springframework/web/servlet/ThemeResolver.java
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/**
 * A contract for inspecting and potentially modifying request data values such
 * as URL query parameters or form field values before they are rendered by a
 * view or before a redirect.
 *
 * <p>Implementations may use this contract for example as part of a solution
 * to provide data integrity, confidentiality, protection against cross-site
 * request forgery (CSRF), and others or for other tasks such as automatically
 * adding a hidden field to all forms and URLs.
 */
View technologies that support this contract can obtain an instance to
delegate to via {@link RequestContext#getRequestDataValueProcessor()}.  

@since 3.1

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```

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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1.jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java
* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1.jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java
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* /opt/ws_local/PERMITS_SQL/1068290228_1594347506.98/0/spring-webmvc-5-2-2-release-sources-1-jar/org/springframework/web/servlet/tags/ArgumentAware.java
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jar/org/hibernate/cache/infinispan/tm/HibernateTransactionManagerLookup.java
* /opt/cola/permits/1091709544_1654022837.9949386/0/hibernate-infinispan-3-6-10-final-sources-
jar/org/hibernate/cache/infinispan/timestamp/TimestampTypeOverrides.java
* /opt/cola/permits/1091709544_1654022837.9949386/0/hibernate-infinispan-3-6-10-final-sources-
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1.356 opensaml-storage-api 3.3.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.363 lang-painless 6.8.3

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* /opt/cola/permits/1110675805_1654023015.6461084/0/wildfly-ejb3-14-0-1-final-sources-1-jar/org/jboss/as/ejb3/deploymentprocessors/EjbJarParsingDeploymentUnitProcessor.java
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* /opt/cola/permits/1110675805_1654023015.6461084/0/wildfly-ejb3-14-0-1-final-sources-1-jar/org/jboss/as/ejb3/iiop/stub/DynamicIOPStub.java
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* /opt/cola/permits/1110675805_1654023015.6461084/0/wildfly-ejb3-14-0-1-final-sources-1-jar/org/jboss/as/ejb3/deployment/processors/AbstractDeploymentUnitProcessor.java
* /opt/cola/permits/1110675805_1654023015.6461084/0/wildfly-ejb3-14-0-1-final-sources-1-jar/org/jboss/as/ejb3/deployment/processors/AbstractDeploymentUnitProcessor.java

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* /opt/cola/permits/1110676250_1654022885.9303632/0/jboss-msc-1-4-3-final-sources-1-jar/org/jboss/msc/service/BatchServiceTarget.java
* /opt/cola/permits/1110676250_1654022885.9303632/0/jboss-msc-1-4-3-final-sources-1-jar/org/jboss/msc/service/CircularDependencyException.java
* /opt/cola/permits/1110676250_1654022885.9303632/0/jboss-msc-1-4-3-final-sources-1-jar/org/jboss/msc/service/ValueInjectionService.java
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* /opt/cola/permits/1000740570_1646171494.25/0/opensaml-saml-impl-3-3-0-sources-jar/org/opensaml/saml/saml1/core/impl/AssertionUnmarshaller.java
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1.370 javassist 3.18.1-GA

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1.371 libpcap 1.5.3-11.el7

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This is a multi-module umbrella project for [Jackson](../../../jackson) standard binary dataformat backends.

Currently included are:

* [Avro](avro/)
* [CBOR](cbor/)
* [Protobuf](protobuf/)
* [Smiley](smiley/)

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## More

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* /opt/cola/permits/1110675003_1654023012.15584870/wildfly-patching-6-0-2-final-sources-1-jar/org/jboss/as/patching/metadata/ModificationCondition.java

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* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1-
  jar/org/jboss/as/patching/cli/PatchInspect.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1-
  jar/org/jboss/as/patching/cli/PatchIdCompleter.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1-
  jar/org/jboss/as/patching/cli/PatchApply.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1-
  jar/org/jboss/as/patching/cli/AbstractDistributionCommand.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1-
  jar/org/jboss/as/patching/cli/PatchInfo.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1-jar/org/jboss/as/patching/cli/PatchOverrideCommand.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1-jar/org/jboss/as/patching/cli/PatchRollback.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1-jar/org/jboss/as/patching/cli/PatchRollbackActivator.java

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* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/runner/PatchToolImpl.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/metadata/PatchBundleXml.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/metadata/PatchElementBuilder.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/installation/LayerDirectoryStructure.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/installation/InstalledIdentity.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/management/LocalPatchOperationStepHandler.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/IoUtils.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/metadata/UpgradeCondition.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/metadata/PatchXmlUtils.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/installation/InstalledIdentity.java

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* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/PatchableTargetsArtifact.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/PatchingOverlayDirArtifact.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/RollbackTargetArtifact.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/PatchingArtifact.java
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* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/PatchingGarbageLocator.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/PatchingFileArtifact.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/PatchHistoryValidations.java
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* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/PatchingXmlArtifact.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/CreatedArtifact.java
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* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/AbstractArtifact.java
* /opt/cola/permits/1110675003_1654023012.1558487/0/wildfly-patching-6-0-2-final-sources-1.jar/org/jboss/as/patching/validation/PatchHistoryIterator.java

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jar/org/glassfish/hk2/osgiresourcelocator/ResourceFinderImpl.java
* /opt/cola/permits/1000000713_1654022962.973248/0/osgi-resource-locator-1-0-1-sources-
jar/org/glassfish/hk2/osgiresourcelocator/ServiceLoaderImpl.java
1.378 wildfly-clustering-marshalling-infinispan 14.0.1.Final

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 * /opt/cola/permits/1110675970_1654022978.939851/0/wildfly-clustering-marshalling-infinispan-14-0-1-final-
   sources-1-jar/META-INF/maven/org.wildfly/wildfly-clustering-marshalling-infinispan/pom.xml
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1.379 jboss-logging-processor 1.1.0.Final

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* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1-jar/org/jboss/logging/annotations/LogMessage.java
* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1-jar/org/jboss/logging/annotations/Cause.java
* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1-jar/org/jboss/logging/annotations/MessageBundle.java
* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1-jar/org/jboss/logging/annotations/MessageLogger.java
* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1-jar/org/jboss/logging/annotations/Message.java
* /opt/cola/permits/1081901151_1654022881.4818122/0/jboss-logging-processor-1-1-0-final-sources-1-jar/org/jboss/logging/annotations/LoggingClass.java

1.380 smackx 0
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/packet/DelayInformation.java
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/provider/FormNodeProvider.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/ibb/InitiationListener.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/util/NodeUtils.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/SubscribeForm.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/Socks5TransferNegotiator.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/ItemDeleteEvent.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/packet/DelayInfo.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/bytestreams/socks5/Socks5BytestreamManager.java
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/bytestreams/socks5/Socks5BytestreamListener.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/bytestreams/BytestreamSession.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/listener/ItemEventListener.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/listener/ItemEventListener.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/EmbeddedPacketExtension.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/AffiliationsExtension.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/pubsub/AccessModel.java
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/muc/UserStatusListener.java
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/packet/PrivateData.java
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/GroupChatInvitation.java

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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/workgroup/packet/MonitorPacket.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/workgroup/util/ModelUtil.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/workgroup/util/MetaDataUtils.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/workgroup/util/ListenerEventDispatcher.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/search/UserSearch.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/search/UserSearchManager.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/workgroup/user/Workgroup.java

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  jar/org/jivesoftware/smackx/muc/RoomInfo.java
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
  jar/org/jivesoftware/smackx/packet/Header.java
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 * $Revision: 1.2 $
 * $Date: 2007/11/06 02:05:09 $
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jar/org/jivesoftware/smackx/packet/PEPItem.java

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jar/org/jivesoftware/smackx/packet/PEPPubSub.java

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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/ChatStateListener.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/packet/LastActivity.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/packet/ChatStateExtension.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/ChatState.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/ChatStateManager.java

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  jar/org/jivesoftware/smackx/workgroup/user/QueueListener.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
  jar/org/jivesoftware/smackx/workgroup/ext/history/AgentChatHistory.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
  jar/org/jivesoftware/smackx/workgroup/settings/WorkgroupProperties.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
  jar/org/jivesoftware/smackx/workgroup/ext/history/ChatMetadata.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
  jar/org/jivesoftware/smackx/workgroup/packet/OfferRevokeProvider.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
  jar/org/jivesoftware/smackx/workgroup/agent/AgentSession.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/workgroup/packet/Transcript.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/workgroup/agent/AgentRoster.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/workgroup/packet/TranscriptSearch.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/workgroup/QueueUser.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/workgroup/agent/OfferContent.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/workgroup/packet/OfferRequestProvider.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/workgroup/ext/macros/Macro.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/workgroup/queue/AgentChatSession.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/workgroup/packet/QueueOverview.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
jar/org/jivesoftware/smackx/workgroup/packet/AgentStatusRequest.java
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/packet/Time.java
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   jar/org/jivesoftware/smackx/filetransfer/IncomingFileTransfer.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
   jar/org/jivesoftware/smackx/MultipleRecipientInfo.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
   jar/org/jivesoftware/smackx/filetransfer/FileTransferRequest.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-
   jar/org/jivesoftware/smackx/filetransfer/FaultTolerantNegotiator.java
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jar/org/jivesoftware/smackx/muc/DiscussionHistory.java
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jar/org/jivesoftware/smackx/XHTMLText.java
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* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/commands/AdHocCommandNote.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/commands/LocalCommand.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/commands/AdHocCommand.java
* /opt/cola/permits/1001477266_1607125518.12/0/smackx-3-2-1-sources-jar/org/jivesoftware/smackx/provider/AdHocCommandDataProvider.java

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* /opt/cola/permits/1110676662_1654022841.4358034/0/hk2-utils-2-3-0-b10-sources-2-
  jar/org/glassfish/hk2/utilities/reflection/ReflectionHelper.java
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* /opt/cola/permits/1110676662_1654022841.4358034/0/hk2-utils-2-3-0-b10-sources-2.jar/org/glassfish/hk2/utilities/cache/CacheKeyFilter.java

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* /opt/cola/permits/1110676662_1654022841.4358034/0/hk2-utils-2-3-0-b10-sources-2-
  jar/org/glassfish/hk2/utilities/reflection/Logger.java
* /opt/cola/permits/1110676662_1654022841.4358034/0/hk2-utils-2-3-0-b10-sources-2-
  jar/org/glassfish/hk2/utilities/reflection/Pretty.java
* /opt/cola/permits/1110676662_1654022841.4358034/0/hk2-utils-2-3-0-b10-sources-2-
  jar/org/glassfish/hk2/utilities/cache/LRUCache.java
* /opt/cola/permits/1110676662_1654022841.4358034/0/hk2-utils-2-3-0-b10-sources-2-
  jar/org/glassfish/hk2/utilities/cache/CacheEntry.java
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  jar/org/glassfish/hk2/utilities/reflection/Constants.java
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1.387 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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1.388 wildfly-discovery-client 1.1.1.Final

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1.389 jnr-ffi 2.1.10

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* /opt/cola/permits/1110675410_1654022981.5210228/0/wildfly-clustering-ejb-infinispan-14-0-1-final-sources-1-
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  jar/org/wildfly/clustering/ejb/infinispan/ScheduleSchedulerCommand.java
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* /opt/cola/permits/1110676484_1654022880.8460608/0/jboss-jaxrpc-api-1-1-spec-1-0-2-final-sources-2-jar/META-INF/maven/org.jboss.spec.java.xml.rpc/jboss-jaxrpc-api_1.1_spec/pom.xml
1.392 e2fsprogs 1.42.9 17.el7

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Theodore Ts'o
23-June-2007

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1.394 spring-boot-starter-thymeleaf

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1.396 spring-plugin-metadata 1.2.0.RELEASE

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jar/com/lmax/disruptor/EventReleaser.java
* /opt/cola/permits/1003735195_1646171697.95/0/disruptor-3-4-0-sources-
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* /opt/cola/permits/1003735195_1646171697.95/0/disruptor-3-4-0-sources-jar/com/lmax/disruptor/WaitStrategy.java
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* /opt/cola/permits/1003735195_1646171697.95/0/disruptor-3-4-0-sources-jar/com/lmax/disruptor/EventTranslatorOneArg.java
* /opt/cola/permits/1003735195_1646171697.95/0/disruptor-3-4-0-sources-jar/com/lmax/disruptor/IgnoreExceptionHandler.java
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* /opt/cola/permits/1003735195_1646171697.95/0/disruptor-3-4-0-sources-jar/com/lmax/disruptor/Sequence.java
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* /opt/cola/permits/1003735195_1646171697.95/0/disruptor-3-4-0-sources-jar/com/lmax/disruptor/dsl/ProducerType.java
* /opt/cola/permits/1003735195_1646171697.95/0/disruptor-3-4-0-sources-jar/com/lmax/disruptor/DataProvider.java
* /opt/cola/permits/1003735195_1646171697.95/0/disruptor-3-4-0-sources-jar/com/lmax/disruptor/SequenceGroups.java
* /opt/cola/permits/1003735195_1646171697.95/0/disruptor-3-4-0-sources-jar/com/lmax/disruptor/Sequencer.java
* /opt/cola/permits/1003735195_1646171697.95/0/disruptor-3-4-0-sources-jar/com/lmax/disruptor/InsufficientCapacityException.java
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.
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1.416 cobertura-maven-plugin 2.4

1.416.1 Available under license:
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* /opt/cola/permits/1000521303_1646171476.67/0/cobertura-maven-plugin-2-4-sources-jar/cobertura-report_de.properties
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* /opt/cola/permits/1000521303_1646171476.67/0/cobertura-maven-plugin-2-4-sources-jar/org/codehaus/mojo/cobertura/configuration/ConfigInstrumentation.java
* /opt/cola/permits/1000521303_1646171476.67/0/cobertura-maven-plugin-2-4-sources-jar/org/codehaus/mojo/cobertura/configuration/ConfigCheck.java
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1.417 yum 3.4.3 163.el7.centos

1.417.1 Available under license:

diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
        except Errors.RepoMDError:
            continue # No metadata found for this repo

+        self.arch_storage = ArchStorage()
+        self.archlist = self.arch_storage.archlist
+
        def get_notices(self, name=None):
+            *** Return all notices. ***
            if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
                 name = oldpkgtup[0]
                 arch = oldpkgtup[1]
                 ret = []
+                other_arch_list = []
+                notices = set()
                for notice in self.get_notices(name):
                    for upkg in notice['pkglist']:
                        for pkg in upkg['packages']:
+                            other_arch = False
                            if pkg['name'] != name or pkg['arch'] != arch:
-                            continue
                            if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                            other_arch = True
+                            else:
+                                continue
+                                pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
                                      pkg['version'], pkg['release'])
                                if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
                                    continue
-                            ret.append((pkgtup, notice))
+                            if other_arch:
+                                other_arch_list.append((pkgtup, notice))
+                            else:
+    ret.append((pkgtup, notice))
+    notices.add(notice)
+    for pkgtup, notice in other_arch_list:
+        if notice not in notices:
+            ret.append((pkgtup, notice))
+    ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
+    return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ @ @ -33.6 +33.7 @@ import Errors
import logginglevels

import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ @ @ -58,7 +58,7 @@ class UpdateNotice(object):
    A single update notice (for instance, a security fix).
    
-    def __init__(self, elem=None):
-    def __init__(self, elem=None, repoid=None, vlogger=None):
        self._md = {
            'from' : ",",
            'type' : ",",
        }
@@ @ @ -83,6 +83,9 @@ class UpdateNotice(object):
        if elem:
            self._parse(elem)

+    self._repoid = repoid
+    self._vlogger = vlogger
+
+    def __getitem__(self, item):
+        """ Allows scriptable metadata access (ie: un['update_id']). """
+        if type(item) is int:
+            # Tests to see if it's "the same data", which means that the
+            # packages can be different (see add_notice).
+            def _rid(un):
+                if hasattr(un, '_repoid') and un._repoid is not None:
+                    return un._repoid
+                return un._repoid

Open Source Used In Data Center Network Manager 11.5(1) 3923
else:
    return '<unknown>'
+
+    def _log_failure(data):
+        """Log the mismatched data similarly to conflict markers in git."""
+        if self._vlogger is None:
+            return
+        msg = _(Duplicate of %s differs in some fields:\n')
+        msg += other._md['update_id']
+        msg += '<' * 1000 ' %s: %s\n' % (_rid(other), data)
+        msg += '%r
' % (other._md[data], self._md[data])
+        msg += '>' * 1000 ' %s: %s\n' % (_rid(self), data)
+        # --verbose mode enables this
+        self._vlogger.log(logginglevels.DEBUG_3, msg)
+        
+        if not other or not hasattr(other, '_md'):
+            return False

@@ -113,6 +134,7 @@ class UpdateNotice(object):
            if data == 'status': # FIXME: See below...
                continue
            if self._md[data] != other._md[data]:
+                _log_failure(data)
                return False
+            # FIXME: Massive hack, Fedora is really broken and gives status=stable
+            # and status=testing for updateinfo notices, just depending on which
@@ -120,8 +142,10 @@ class UpdateNotice(object):
                return False
+            # They are both really "stable" ...
                self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
            for event, elem in safe_iterparse(infile, logger=self._logger):
                if elem.tag == 'update':
                    try:
-                        un = UpdateNotice(elem)
+                        un = UpdateNotice(elem, repoid, self._vlogger)
                    except UpdateNoticeException, e:
                        msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
                        if self._vlogger:
                            msg = _("Update notice %s is broken, or a bad duplicate, skipping.") % (un['update_id'],

---
if not have_dup:
    msg += ('You should report this problem to the owner of the %s repository.' % _rid(repoid, "%s "))
    msg += ('If you are the owner, consider re-running the same command with --verbose to see the '}
    have_dup = True
    if self._vlogger:
        self._vlogger.warn("%s", msg)

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Version 2, June 1991

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/PushProcess.java

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  jar/org/eclipse/jgit/lib/SubmoduleConfig.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/events/IndexChangedListener.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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jar/org/eclipse/jgit/api/errors/CanceledException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/api/errors/InvalidConfigurationException.java

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* jar/org/eclipse/jgit/ignore/internal/WildMatcher.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
* jar/org/eclipse/jgit/ignore/FastIgnoreRule.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
* jar/org/eclipse/jgit/ignore/internal/WildCardMatcher.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* jar/org/eclipse/jgit/ignore/internal/AbstractMatcher.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/lib/TypedConfigGetter.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/InternalHttpServerGlue.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/DirCacheNameConflictException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/PushCertificate.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/PushCertificateStore.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/PushCertificateIdent.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/TestProtocol.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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 * A special exception thrown when [@link AutoLFInputStream] is told to
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 *
 * @since 3.3
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/util/TemporaryBuffer.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/treewalk/TreeWalk.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/dircache/DirCacheEditor.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/dircache/DirCacheIterator.java
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*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/internal/storage/file/WindowCache.java

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/**
 * {@inheritDoc}
 * <p>
 * Free resources associated with this instance.
 * <p>
 * If the repository was opened by a static factory method in this class,
 * then this method calls {@link Repository#close()} on the underlying
 * repository instance. (Whether this actually releases underlying
 * resources, such as file handles, may vary; see {@link Repository} for
 * more details.)
 * <p>
 * If the repository was created by a caller and passed into
 * {@link Git(Repository)} or a static factory method in this class, then
 * this method does not call close on the underlying repository.
 * <p>
 * In all cases, after calling this method you should not use this
 * {@link Git} instance anymore.
 * 
 * @since 3.2
 */

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- /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/git/lib/BranchTrackingStatus.java

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jar/org/eclipse/jgit/transport/RevSort.java
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jar/org/eclipse/jgit/internal/storage/file/PackIndex.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5.0.0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/transport/PushConnection.java

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jar/org/eclipse/jgit/diff/EditList.java
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jar/org/eclipse/jgit/revwalk/FooterLine.java
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jar/org/eclipse/jgit/internal/storage/file/ObjectDirectory.java
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jar/org/eclipse/jgit/internal/storage/file/PackLock.java
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jar/org/eclipse/jgit/revwalk/FooterKey.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/errors/IndexReadException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/errors/TooLargePackException.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/events/ConfigChangedEvent.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/notes/NoteMap.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/notes/InMemoryNoteBucket.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/notifications/NoWorkTreeException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/diff/LowLevelDiffAlgorithm.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/lib/InMemoryRepositoryBuilder.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/lib/RepositoryBuilder.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/hooks/PreCommitHook.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/hooks/GitHook.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/hooks/CommitMsgHook.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/hooks/Hooks.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/api/SubmoduleDeinitResult.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/revplot/PlotCommit.java

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  jar/org/eclipse/jgit/api/errors/PatchApplyException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/internal/storage/dfs/DfsBlock.java

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/**
* Fetch objects we don't have but that are reachable from advertised refs.
* <p>
* Only one call per connection is allowed. Subsequent calls will result in
* {@link org.eclipse.jgit.errors.TransportException}. 
* </p>
* <p>
* Implementations are free to use network connections as necessary to
* efficiently (for both client and server) transfer objects from the remote
* repository into this repository. When possible implementations should
* avoid replacing/overwriting/duplicating an object already available in
* the local destination repository. Locally available objects and packs
* should always be preferred over remotely available objects and packs.
* {@link org.eclipse.jgit.transport.Transport#isFetchThin()} should be
* honored if applicable.
* </p>
*
* @param monitor
* progress monitor to inform the end-user about the amount of
* work completed, or to indicate cancellation. Implementations
* should poll the monitor at regular intervals to look for
* cancellation requests from the user.
* @param want
* one or more refs advertised by this connection that the caller
* wants to store locally.
* @param have

additional objects known to exist in the destination repository, especially if they aren't yet reachable by the ref database. Connections should take this set as an addition to what is reachable through all Refs, not in replace of it.

`@throws org.eclipse.jgit.errors.TransportException`

objects could not be copied due to a network failure, protocol error, or error on remote side, or connection was already used for fetch.

`*/`

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  jar/org/eclipse/jgit/transport/http/JDKHttpConnectionFactory.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5.0-2-201807311906-r-sources-2-
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jar/org/eclipse/jgit/api/RemoteAddCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/api/RemoteListCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/api/RemoteSetUrlCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/LockFailedException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/submodule/SubmoduleWalk.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/SubmoduleStatusCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/SubmoduleAddCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/submodule/SubmoduleStatusType.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/SubmoduleInitCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/SubmoduleSyncCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/BlameCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/submodule/SubmoduleStatus.java

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  jar/org/eclipse/jgit/internal/ketch/TimeIsUncertainException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/util/time/ProposedTimestamp.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/internal/ketch/KetchLeader.java
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  jar/org/eclipse/jgit/internal/ketch/Round.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/internal/ketch/ReplicaPushRequest.java
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  jar/org/eclipse/jgit/internal/ketch/KetchConstants.java
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  jar/org/eclipse/jgit/internal/ketch/KetchPreReceive.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/external/storage/refree/Command.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/internal/ketch/KetchSystem.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/util/Paths.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/TranslationBundleLoadingException.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/errors/TranslationBundleException.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/notes/DefaultNoteMerger.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/notes/NoteMapMerger.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/notes/TranslationStringMissingException.java
* /opt/cola/permits/110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/notes/NotesMergeConflictException.java

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  jar/org/eclipse/jgit/treewalk/filter/PathFilterGroup.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/errors/NotSupportedException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/lib/ProgressMonitor.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/treewalk/filter/AndTreeFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/revwalk/filter/OrRevFilter.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2.jar/org/eclipse/jgit/transport/TransportBundleStream.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/api/RevertCommand.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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jar/org/eclipse/jgit/revwalk/TopoSortGenerator.java
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jar/org/eclipse/jgit/util/FS.java
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jar/org/eclipse/jgit/revwalk/TreeRevFilter.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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  jar/org/eclipse/jgit/api/StashCreateCommand.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
  jar/org/eclipse/jgit/api/StashDropCommand.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/DaemonClient.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/patch/Patch.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/patch/UnmergedPathException.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/lib/AbbreviatedObjectId.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/transport/Daemon.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/patch/HunkHeader.java
* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/patch/FileHeader.java
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/treewalk/AbstractTreeIterator.java

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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/lib/Config.java

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*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
jar/org/eclipse/jgit/internal/storage/file/ ByteWindow.java
*/opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-
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* /opt/cola/permits/1110676752_1606843642.21/0/org-eclipse-jgit-5-0-2-201807311906-r-sources-2-jar/org/eclipse/jgit/lib/Ref.java

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1.423 rocksdbjni 5.18.3

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  jar/org/jboss/stdio/StdioService.java
* /opt/cola/permits/1002302897_1654022910.0195913/0/jboss-stdio-1-0-2-ga-sources-
  jar/org/jboss/stdio/SimpleStdioContextSelector.java
* /opt/cola/permits/1002302897_1654022910.0195913/0/jboss-stdio-1-0-2-ga-sources-
  jar/org/jboss/stdio/LoggingOutputStream.java
* /opt/cola/permits/1002302897_1654022910.0195913/0/jboss-stdio-1-0-2-ga-sources-
  jar/org/jboss/stdio/NullOutputStream.java
* /opt/cola/permits/1002302897_1654022910.0195913/0/jboss-stdio-1-0-2-ga-sources-
  jar/org/jboss/stdio/WriterOutputStream.java
* /opt/cola/permits/1002302897_1654022910.0195913/0/jboss-stdio-1-0-2-ga-sources-
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  jar/org/jboss/stdio/WriterOutputStream.java
* /opt/cola/permits/1002302897_1654022910.0195913/0/jboss-stdio-1-0-2-ga-sources-
  jar/org/jboss/stdio/AbstractLoggingWriter.java
* /opt/cola/permits/1002302897_1654022910.0195913/0/jboss-stdio-1-0-2-ga-sources-
1.434 netty-codec-socks 4.1.34.Final

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* /opt/cola/permissions/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-jar/io/netty/handler/codec/socks/SocksAddressType.java
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* /opt/cola/permissions/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-jar/io/netty/handler/codec/socks/SocksMessageType.java
jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-
jar/io/netty/handler/codec/socks/SocksRequestType.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-3-4-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-3-4-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-3-4-final-sources-1-
jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-3-4-final-sources-1-
jar/io/netty/handler/codec/socksx/v4/package-info.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-3-4-final-sources-1-
jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-3-4-final-sources-1-
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jar/io/netty/handler/codec/socks4ClientEncoder.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-3-4-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-3-4-final-sources-1-
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jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
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jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
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jar/io/netty/handler/codec/socks/SocksAuthResponse.java
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jar/io/netty/handler/codec/socks/socksx/v4/Socks4CommandStatus.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-
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jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java
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jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-
jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-
jar/io/netty/handler/codec/socks/SocksCommonUtils.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-
jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-
jar/io/netty/handler/codec/socks/SocksRequest.java
* /opt/cola/permits/1110675062_1606842987.61/0/netty-codec-socks-4-1-34-final-sources-1-
jar/io/netty/handler/codec/socks/package-info.java
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jar/io/netty/handler/codec/socks/SocksMessage.java
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jar/io/netty/handler/codec/socks/SocksCmdResponse.java
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jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
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jar/io/netty/handler/codec/socks/SocksInitRequest.java
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THE BASIC LIBRARY FUNCTIONS
-----------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
jar/io/netty/handler/codec/headersUtils.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFramePrepender.java

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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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INF/maven/io.netty/netty-codec/pom.xml

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* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4.1-24-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
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  jar/io/netty/handler/codec/list/LineSeparator.java
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* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
  jar/io/netty/handler/codec/compression/ByteBufChecksum.java
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  jar/io/netty/handler/codec/DatagramPacketEncoder.java
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  jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
  jar/io/netty/handler/codec/compression/ZZlibCodecFactory.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
  jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
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* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/compression/MarkableInputBuffer.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1.jar/io/netty/handler/codec/marshalling/DefaultUnmarshallProvider.java
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 */

/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 *{@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 *that it can decode any message with a length field, which is often seen in
 *proprietary client-server protocols. Here are some example that will give
 *you the basic idea on which option does what.
 *
 *<h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 *The value of the length field in this example is <tt>12 (0x0C)</tt> which
 *represents the length of "HELLO, WORLD". By default, the decoder assumes
 *that the length field represents the number of the bytes that follows the
 *length field. Therefore, it can be decoded with the simplistic parameter
 *combination.
 *<p>
 *<b>lengthFieldOffset</b>   = <b>0</b>
 *<b>lengthFieldLength</b>   = <b>2</b>
 *lengthAdjustment    = 0
 *initialBytesToStrip = 0 (= do not strip header)
 *
 *BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 *+-----------------+ +------------------+
 *| Length | Actual Content |-----| Length | Actual Content |
 */
Because we can get the length of the content by calling
[@link ByteBuf#readableBytes()], you might want to strip the length
field by specifying <tt>initialBytesToStrip</tt>. In this example, we
specified <tt>2</tt>, that is same with the length of the length field, to
strip the first two bytes.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)
```

```
BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

In most cases, the length field represents the length of the message body
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
lengthAdjustment. Because the length value in this example message
is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> as
lengthAdjustment for compensation.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = -2 (= the length of the Length field)
initialBytesToStrip = 0
```

```
BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

In most cases, the length field represents the length of the message body
at offset 0, do not strip header, the length field
represents the length of the whole message.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0
```

```
BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

In most cases, the length field represents the length of the message body
at offset 0, strip header.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0
```

```
BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

In most cases, the length field represents the length of the message body
at offset 0, strip header, the length field
represents the length of the whole message.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0
```

```
BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

In most cases, the length field represents the length of the message body
at offset 0, strip header, the length field
represents the length of the whole message.

```java
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 0
```

```
BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```
The following message is a simple variation of the first example. An extra header value is prepended to the message. The lengthAdjustment is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```plaintext
<lengthFieldOffset>   = <2> (= the length of Header 1)
<lengthFieldLength>   = <3>
lengthAdjustment    = 0
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 | Length  | Actual Content |----->| Header 1 | Length  | Actual Content |
| 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
</pre>
```

This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive lengthAdjustment so that the decoder counts the extra header into the frame length calculation.

```plaintext
lengthFieldOffset   = 0
lengthFieldLength   = 3
<lengthFieldOffset>   = <2> (= the length of Header 1)
initialBytesToStrip = 0

BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
| 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
+----------+----------+----------------+      +----------+----------+----------------+
</pre>
```

This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field.

The prepended header affects the lengthFieldOffset and the extra header affects the lengthAdjustment. We also specified a non-zero initialBytesToStrip to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify 0 for initialBytesToSkip.

```plaintext
</pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* \(<b>\text{lengthAdjustment}</b> = <b>1</b> (= the length of HDR2)
* \(<b>\text{initialBytesToStrip}</b> = <b>3</b> (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +---------------+--------+---------------+      +---------------+--------+---------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +---------------+--------+---------------+      +---------------+--------+---------------+

* </pre>

* BEFORE DECODE (16 bytes)                    AFTER DECODE (13 bytes)
* +---------------+--------+---------------+      +---------------+--------+---------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +---------------+--------+---------------+      +---------------+--------+---------------+

* </pre>

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into \(<tt>\text{lengthAdjustment}</tt>\).
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.

* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/cola/permits/1110674843_1606843036.76/0/netty-codec-4-1-24-final-sources-1-
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   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996. 
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  * /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling-1-3-16-ga-sources-jar/org/jboss/marshalling/AbstractObjectOutput.java
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  * /opt/cola/permits/1023216480_1654022891.23416/0/jboss-marshalling/cloner/ClonerConfiguration.java
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1.458 libqb 1.0.1-9.el7

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* /opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-jar/jnr/posix/LinuxFileStat32.java
* /opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-jar/jnr/posix/DragonFlyPOSIX.java
* /opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-jar/jnr/posix/OpenBSDPasswd.java
* /opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-jar/jnr/posix/AixFileStat.java

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* /opt/cola/permits/1005594541_1646171709.07/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Sequence.java
1.470 xml-commons-resolver 1.2

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
  jar/org/antlr/v4/runtime/atn/SimulatorState.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
  jar/org/antlr/v4/runtime/dfa/AbstractEdgeMap.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
  jar/org/antlr/v4/runtime/dfa/SingletonEdgeMap.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
  jar/org/antlr/v4/runtime/dfa/SparseEdgeMap.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
  jar/org/antlr/v4/runtime/dfa/ArrayEdgeMap.java

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/ErrorInfo.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/DecisionEventInfo.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/ContextSensitivityInfo.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/DecisionInfo.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/LookaheadEventInfo.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/ConflictInfo.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/ParseInfo.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/AmbiguityInfo.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/Vocabulary.java

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/TokenFactory.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/misc/TestRig.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/misc/MultiMap.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/misc/FlexibleHashMap.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/ParseTree.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/ParseTreeProperty.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/lexer/Lexer.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/lexer/FlexibleHashMap.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/AtomTransition.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/StarBlockStartState.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/ParserATNSimulator.java
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* /opt/cola/permits/1000876358_1646171538.93/o/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/RecognitionException.java
* /opt/cola/permits/1000876358_1646171538.93/o/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/ConsoleErrorListener.java
* /opt/cola/permits/1000876358_1646171538.93/o/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/LL1Analyzer.java
* /opt/cola/permits/1000876358_1646171538.93/o/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/ParserErrorListener.java
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  jar/org/antlr/v4/runtime/atn/LexerTypeAction.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
  jar/org/antlr/v4/runtime/atn/ATNType.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
  jar/org/antlr/v4/runtime/atn/ATNDeserializer.java
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jar/org/antlr/v4/runtime/tree/pattern/TagChunk.java
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jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java
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jar/org/antlr/v4/runtime/RuntimeInterpret.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java

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 */
/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 *
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * [ @link javax.validation.ParameterNameProvider ]. By default, [@code arg0], [@code arg1] etc.
 * will be used as parameter names.
 *
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 *
 * Can be specified on any method or constructor.
 *
 */

/*
 * @author Gunnar Morling
 */
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 */
/**
 * Retrieves constraint related meta data for the parameters of the given
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 *
 * @param executable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

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  jar/org/hibernate/validator/cfg/defs/NullDef.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
  jar/org/hibernate/validator/cfg/defs/pl/package-info.java
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  jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForLocalTime.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/AbstractPastOrPresentInstantBasedVa-
  lidator.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-
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  jar/org/hibernate/validator/internal/engine/path/PathImpl.java
* /opt/cola/permits/1110675267_1606843789.2/0/hibernate-validator-6-0-17-final-sources-4-jar/org/hibernate/validator/internal/engine/groups/Group.java
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* /opt/cola/permits/1110675483_1654022990.7046108/0/wildfly-clustering-web-undertow-14-0-1-final-sources-1-jar/org/wildfly/clustering/web/undertow/sso/DistributableSingleSignOnClassTableContributor.java
* /opt/cola/permits/1110675483_1654022990.7046108/0/wildfly-clustering-web-undertow-14-0-1-final-sources-1-jar/org/wildfly/clustering/web/undertow/UndertowIdentifierSerializerProvider.java
* /opt/cola/permits/1110675483_1654022990.7046108/0/wildfly-clustering-web-undertow-14-0-1-final-sources-1-jar/org/wildfly/clustering/web/undertow/sso/SessionListenerServiceConfigurator.java

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1.480 librdkafka 1.3.0

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*/

src/xxhash.[ch] src/lz4*.ch: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3

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parts of src/rdmurmur2.c: git@github.com:abrandoned/murmur2.git

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src/xxhash.[ch] src/lz4*.ch: git@github.com:lz4/lz4.git e2827775ee80d2ef985858727575df31fc60f1f3

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 */

#include <glibmm/object.h>
#include <giomm/cancellable.h>
#include <giomm/asyncresult.h>

_NAMESPACE_GIO_BEGIN

namespace Gio {

/** An object representing the permission to perform a certain action.
 *
 * A Permission represents the status of the caller's permission to
 * perform a certain action.
 *
 * You can query if the action is currently allowed and if it is

#include <glibmm/object_p.h>
#include <gio/gio_p.h>

_NAMESPACE_GIO_END

}
* possible to acquire the permission so that the action will be allowed
* in the future.
*
* There is also an API to actually acquire the permission and one to
* release it.
*
* As an example, a Permission might represent the ability for the
* user to write to a Settings object. This Permission object could
* then be used to decide if it is appropriate to show a "Click here to
* unlock" button in a dialog and to provide the mechanism to invoke
* when that button is clicked.
*
* @newin{2,42}
*/

class Permission : public Glib::Object
{
  _CLASS_GOBJECT(Permission, GPermission, G_PERMISSION, Glib::Object, GObject)

public:

  _WRAP_METHOD(bool acquire(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_acquire, errthrow)
  _WRAP_METHOD(void acquire_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.?}), g_permission_acquire_async, slot_name slot, slot_callback SignalProxy_async_callback)
  _WRAP_METHOD(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_acquire_finish, errthrow)

  _WRAP_METHOD(bool release(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_release, errthrow)
  _WRAP_METHOD(void release_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.?}), g_permission_release_async, slot_name slot, slot_callback SignalProxy_async_callback)
  _WRAP_METHOD(bool release_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_release_finish, errthrow)

  _WRAP_METHOD(bool get_allowed() const, g_permission_get_allowed)
  _WRAP_METHOD(bool get_can_acquire() const, g_permission_get_can_acquire)
  _WRAP_METHOD(bool get_can_release() const, g_permission_get_can_release)

  _WRAP_PROPERTY("allowed", bool)
  _WRAP_PROPERTY("can-acquire", bool)
  _WRAP_PROPERTY("can-release", bool)

protected:

  _CTOR_DEFAULT

// A copy is needed for vfuncs, i.e. Glib::wrap($3, true)
#m4 _CONVERSION(`GAsyncResult*', `const Glib::RefPtr<AsyncResult>&', `Glib::wrap($3, true')`
#m4 _CONVERSION(`GCancellable*', `const Glib::RefPtr<Cancellable>&', `Glib::wrap($3, true')`

⁄_WRAP_VFUNC(bool acquire(const Glib::RefPtr<Cancellable>& cancellable), acquire, errthrow)
⁄_WRAP_VFUNC(void acquire_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>&
cancellable{}, acquire_async, slot_name slot, slot_callback SignalProxy_async_callback)
⁄_WRAP_VFUNC(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), acquire_finish, errthrow)

⁄_WRAP_VFUNC(bool release(const Glib::RefPtr<Cancellable>& cancellable), release, errthrow)
⁄_WRAP_VFUNC(void release_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>&
cancellable{}, release_async, slot_name slot, slot_callback SignalProxy_async_callback)
⁄_WRAP_VFUNC(bool release_finish(const Glib::RefPtr<AsyncResult>& result), release_finish, errthrow)

// You should never call this function except from a Gio::Permission implementation.
⁄_WRAP_METHOD(void impl_update(bool allowed, bool can_acquire, bool can_release),
g_permission_impl_update)
}

} // namespace Gio

// Generated by gmmproc 2.54.1 -- DO NOT MODIFY!
 ifndef _GIOMM_PERMISSION_H
 define _GIOMM_PERMISSION_H

#include <glibmm/ustring.h>
#include <sigc++/sigc++.h>

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 */

#include <glibmm/object.h>
#include <giomm/cancellable.h>
#include <giomm/asyncresult.h>
namespace Gio

/** An object representing the permission to perform a certain action.
 * 
 * A Permission represents the status of the caller's permission to 
 * perform a certain action.
 * 
 * You can query if the action is currently allowed and if it is 
 * possible to acquire the permission so that the action will be allowed 
 * in the future.
 * 
 * There is also an API to actually acquire the permission and one to 
 * release it.
 * 
 * As an example, a Permission might represent the ability for the 
 * user to write to a Settings object. This Permission object could 
 * then be used to decide if it is appropriate to show a "Click here to 
 * unlock" button in a dialog and to provide the mechanism to invoke 
 * when that button is clicked.
 * 
 * @newin{2,42}
 */

class Permission : public Glib::Object

#ifndef DOXYGEN_SHOULD_SKIP_THIS

public:

using CppObjectType = Permission;
using CppClassType = Permission_Class;
using BaseObjectType = GPermission;
using BaseClassType = GPermissionClass;

// noncopyable

#endif /* DOXYGEN_SHOULD_SKIP_THIS */
Permission(const Permission&) = delete;
Permission& operator=(const Permission&) = delete;

private:  friend class Permission_Class;
static CppClassType permission_class_;  

protected:
explicit Permission(const Glib::ConstructParams& construct_params);
explicit Permission(GPermission* castitem);

#endif /* DOXYGEN_SHOULD_SKIP_THIS */

public:

Permission(Permission&& src) noexcept;
Permission& operator=(Permission&& src) noexcept;
~Permission() noexcept override;

/** Get the GType for this class, for use with the underlying GObject type system.
 */
static GType get_type() G_GNUC_CONST;
#if !DOXYGEN_SHOULD_SKIP_THIS
static GType get_base_type() G_GNUC_CONST;
#endif

///Provides access to the underlying C GObject.
GPermission* gobj() { return reinterpret_cast<GPermission*>(gobject_); }

///Provides access to the underlying C GObject.
const GPermission* gobj() const { return reinterpret_cast<const GPermission*>(gobject_); }

///Provides access to the underlying C instance. The caller is responsible for unrefing it. Use when directly setting
fields in structs.
GPermission* gobj_copy();

private:

public:

/** Attempts to acquire the permission represented by @a permission.
 */
*
* The precise method by which this happens depends on the permission
and the underlying authentication mechanism. A simple example is
that a dialog may appear asking the user to enter their password.

You should check with `g_permission_get_can_acquire()` before calling
this function.

If the permission is acquired then `true` is returned. Otherwise,
`false` is returned and an error is set appropriately.

This call is blocking, likely for a very long time (in the case that
user interaction is required). See `g_permission_acquire_async()` for
the non-blocking version.

@newin{2,26}

@param cancellable A Cancellable, or `nullptr`.
@return `true` if the permission was successfully acquired.
@throws `Glib::Error`

```cpp
bool acquire(const Glib::RefPtr<Cancellable>& cancellable);
```

/// A `acquire()` convenience overload.
bool acquire();

/** Attempts to acquire the permission represented by `a permission`.
* This is the first half of the asynchronous version of
* `g_permission_acquire()`.
* @newin{2,26}
* @param cancellable A Cancellable, or `nullptr`.
* @param slot The SlotAsyncReady to call when done.
*/
void acquire_async(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// A `acquire_async()` convenience overload.
void acquire_async(const SlotAsyncReady& slot);

/** Collects the result of attempting to acquire the permission
* represented by `a permission`.
* This is the second half of the asynchronous version of
* `g_permission_acquire()`.
* @newin{2,26}
*
bool acquire_finish(const Glib::RefPtr<AsyncResult>& result);

/** Attempts to release the permission represented by @a permission.
 * The precise method by which this happens depends on the permission
 * and the underlying authentication mechanism. In most cases the
 * permission will be dropped immediately without further action.
 *
 * You should check with g_permission_get_can_release() before calling
 * this function.
 *
 * If the permission is released then <tt>true</tt> is returned. Otherwise,
 * <tt>false</tt> is returned and @a error is set appropriately.
 *
 * This call is blocking, likely for a very long time (in the case that
 * user interaction is required). See g_permission_release_async() for
 * the non-blocking version.
 *
 * @newin{2,26}
 *
 * @param cancellable A Cancellable, or <tt>nullptr</tt>.
 * @return <tt>true</tt> if the permission was successfully released.
 *
 * @throws Glib::Error
 */
bool release(const Glib::RefPtr<Cancellable>& cancellable);

/// A release() convenience overload.
bool release();

/** Attempts to release the permission represented by @a permission.
 *
 * This is the first half of the asynchronous version of
 * g_permission_release().
 *
 * @newin{2,26}
 *
 * @param cancellable A Cancellable, or <tt>nullptr</tt>.
 * @param slot The SlotAsyncReady to call when done.
 */
void release_async(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);
/// A release_async() convenience overload.
void release_async(const SlotAsyncReady& slot);

/** Collects the result of attempting to release the permission
 * represented by @a permission.
 * This is the second half of the asynchronous version of
 * g_permission_release().
 * @newin{2,26}
 *
 * @param result TheAsyncResult given to the SlotAsyncReady.
 * @return <tt>true</tt> if the permission was successfully released.
 * @throws Glib::Error
 */
bool release_finish(const Glib::RefPtr<AsyncResult>& result);

/** Gets the value of the 'allowed' property. This property is <tt>true</tt> if
 * the caller currently has permission to perform the action that
 * @a permission represents the permission to perform.
 * @newin{2,26}
 *
 * @return The value of the 'allowed' property.
 */
bool get_allowed() const;

/** Gets the value of the 'can-acquire' property. This property is <tt>true</tt>
 * if it is generally possible to acquire the permission by calling
 * g_permission_acquire().
 * @newin{2,26}
 *
 * @return The value of the 'can-acquire' property.
 */
bool get_can_acquire() const;

/** Gets the value of the 'can-release' property. This property is <tt>true</tt>
 * if it is generally possible to release the permission by calling
 * g_permission_release().
 * @newin{2,26}
 *
 * @return The value of the 'can-release' property.
 */
bool get_can_release() const;
/** <tt>true</tt> if the caller currently has permission to perform the action that 
* @a permission represents the permission to perform. 
* 
* Default value: <tt>false</tt> 
* 
* @return A PropertyProxy_ReadOnly that allows you to get the value of the property, 
* or receive notification when the value of the property changes. 
*/ 
Glib::PropertyProxy_ReadOnly< bool > property_allowed() const;

/** <tt>true</tt> if it is generally possible to acquire the permission by calling 
* g_permission_acquire(). 
* 
* Default value: <tt>false</tt> 
* 
* @return A PropertyProxy_ReadOnly that allows you to get the value of the property, 
* or receive notification when the value of the property changes. 
*/ 
Glib::PropertyProxy_ReadOnly< bool > property_can_acquire() const;

/** <tt>true</tt> if it is generally possible to release the permission by calling 
* g_permission_release(). 
* 
* Default value: <tt>false</tt> 
* 
* @return A PropertyProxy_ReadOnly that allows you to get the value of the property, 
* or receive notification when the value of the property changes. 
*/ 
Glib::PropertyProxy_ReadOnly< bool > property_can_release() const;

protected:

Permission();

// A copy is needed for vfuncs, i.e. Glib::wrap($3, true)

/// @throws Glib::Error.
virtual bool acquire_vfunc(const Glib::RefPtr<Cancellable>& cancellable);

virtual void acquire_async_vfunc(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

/// @throws Glib::Error.
virtual bool acquire_finish_vfunc(const Glib::RefPtr<AsyncResult>& result);
virtual bool release_vfunc(const Glib::RefPtr<Cancellable>& cancellable);

virtual void release_async_vfunc(const SlotAsyncReady& slot, const Glib::RefPtr<Cancellable>& cancellable);

virtual bool release_finish_vfunc(const Glib::RefPtr<AsyncResult>& result);

// You should never call this function except from a Gio::Permission implementation.

/** This function is called by the Permission implementation to update the properties of the permission. You should never call this function except from a Permission implementation.
 * GObject notify signals are generated, as appropriate.
 * @param allowed The new value for the 'allowed' property.
 * @param can_acquire The new value for the 'can-acquire' property.
 * @param can_release The new value for the 'can-release' property.
 */
void impl_update(bool allowed, bool can_acquire, bool can_release);

public:

//C++ methods used to invoke GTK+ virtual functions:

protected:
//GTK+ Virtual Functions (override these to change behaviour):

//Default Signal Handlers::

};

} // namespace Gio

namespace Glib
{
/** A Glib::wrap() method for this object.
 * @param
 */
* @param object The C instance.
* @param take_copy False if the result should take ownership of the C instance. True if it should take a new copy or ref.
* @result A C++ instance that wraps this C instance.
* 
* @relates Gio::Permission
*/
Glib::RefPtr<Gio::Permission> wrap(GPermission* object, bool take_copy = false);

#endif /* _GIOMM_PERMISSION_H */

1.489 slang 2.2.4-11.el7

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### 1.493 wildfly-mod-cluster-extension

#### 14.0.1.Final

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/**
* Default implementation of the Attributes interface.
* *
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>. </em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
* *
* <p>This class provides a default implementation of the SAX2
* [ @link org.xml.sax.Attributes Attributes ] interface, with the
* addition of manipulators so that the list can be modified or
* reused.</p>
* *
* <p>There are two typical uses of this class:</p>
* *
* <ol>
* <li>to take a persistent snapshot of an Attributes object
* in a [ @link org.xml.sax.ContentHandler#startElement startElement ] event; or</li>
* <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
* </ol>
This class replaces the now-deprecated SAX1 \{ @link org.xml.sax.helpers.AttributeListImpl \} in addition to supporting the updated Attributes interface rather than the deprecated \{ @link org.xml.sax.AttributeList \} interface, it also includes a much more efficient implementation using a single array rather than a set of Vectors.

@since JAXB 1.0
@since SAX 2.0
@author David Megginson
@version 2.0.1 (sax2r2)

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* /opt/cola/permits/1150996732_1654022864.9866693/0/jaxb-impl-2-3-0-sources-9-jar/com/sun/xml/bind/api/Bridge.java
* /opt/cola/permits/1150996732_1654022864.9866693/0/jaxb-impl-2-3-0-sources-9-jar/com/sun/xml/bind/v2/schemagen/xmlschema/TopLevelAttribute.java
* /opt/cola/permits/1150996732_1654022864.9866693/0/jaxb-impl-2-3-0-sources-9-jar/com/sun/xml/bind/v2/model/impl/RuntimeTypeInfoSet.java
* /opt/cola/permits/1150996732_1654022864.9866693/0/jaxb-impl-2-3-0-sources-9-jar/com/sun/xml/bind/v2/model/annotation/XmlEnumQuick.java
* /opt/cola/permits/1150996732_1654022864.9866693/0/jaxb-impl-2-3-0-sources-9-jar/com/sun/xml/bind/v2/model/annotation/XmlElementRefQuick.java
* /opt/cola/permits/1150996732_1654022864.9866693/0/jaxb-impl-2-3-0-sources-9-jar/com/sun/xml/bind/v2/runtime/reflect/PrimitiveArrayListerCharacter.java
* /opt/cola/permits/1150996732_1654022864.9866693/0/jaxb-impl-2-3-0-sources-9-jar/com/sun/xml/bind/v2/runtime/unmarshaller/StAXExConnector.java
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compiler/cpp/src/generate/t_cpp_generator.cc
compiler/cpp/src/generate/t_csharp_generator.cc
compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TLList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
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L. Peter Deutsch
ghost@aladdin.com

*/

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1.500 gnome-settings-daemon 3.28.1 8.el7

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jar/springfox/documentation/swagger/readers/operation/OperationImplicitParametersReader.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
jar/springfox/documentation/swagger/schema/ApiModelProperties.java

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* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/TagsSorter.java
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* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/DocExpansion.java

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* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/common/SwaggerPluginSupport.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/common/SwaggerPluginSupport.java
Jar/ springfox/documentation/swagger/configuration/SwaggerCommonConfiguration.java
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* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/common/XForwardPrefixPathAdjuster.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/web/SecurityConfiguration.java
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  jar/springfox/documentation/swagger/common/HostNameProvider.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
  jar/springfox/documentation/swagger/web/ApiResourceController.java
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  jar/springfox/documentation/swagger/readers/operation/SwaggerOperationResponseClassReader.java
* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-
  jar/springfox/documentation/swagger/readers/operation/SwaggerResponseMessageReader.java

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* /opt/cola/permits/1177939685_1625570697.96/0/springfox-swagger-common-2-9-2-sources-3-jar/springfox/documentation/swagger/readers/operation/OperationNicknameIntoUniqueIdReader.java

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* @param value the value of type {@code T}.
* @return a String representation of the value.
*
* @throws IllegalArgumentException if the supplied object cannot be
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* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources.jar/javax/ws/rs/core/PathSegment.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources.jar/javax/ws/rs/core/HeaderParam.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources.jar/javax/ws/rs/core/HeaderParam.java
* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources.jar/javax/ws/rs/core/Context.java
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* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
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* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
  jar/java/ws/rs/NotAcceptableException.java
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* /opt/cola/permits/1151030406_1654022967.9565017/0/txw2-2-2-3-0-sources-4-jar/com/sun/xml/txw2/output/package.html
* /opt/cola/permits/1151030406_1654022967.9565017/0/txw2-2-2-3-0-sources-4-jar/com/sun/xml/txw2/annotation/package.html
* /opt/cola/permits/1151030406_1654022967.9565017/0/txw2-2-2-3-0-sources-4-jar/com/sun/xml/txw2/package.html

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* /opt/cola/permits/1151030406_1654022967.9565017/0/txw2-2-3-0-sources-4-jar/com/sun/xml/txw2/TXW.java
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* Encapsulate Namespace logic for use by applications using SAX,
* or internally by SAX drivers.
*
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*
* <p>This class encapsulates the logic of Namespace processing: it
* tracks the declarations currently in force for each context and
* automatically processes qualified XML names into their Namespace
* parts; it can also be used in reverse for generating XML qnames
* from Namespaces.</p>
*
* <p>Namespace support objects are reusable, but the reset method
* must be invoked between each session.</p>
*
* <pre>
* String parts[] = new String[3];
* NamespaceSupport support = new NamespaceSupport();
* support.pushContext();
* support.declarePrefix("", "http://www.w3.org/1999/xhtml");
* support.declarePrefix("dc", "http://www.purl.org/dc#");
* parts = support.processName("p", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);
* parts = support.processName("dc:title", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);
* support.popContext();
* </pre>
* <p>Note that this class is optimized for the use case where most elements do not contain Namespace declarations: if the same prefix/URI mapping is repeated for each context (for example), this class will be somewhat less efficient.</p>

* Although SAX drivers (parsers) may choose to use this class to implement namespace handling, they are not required to do so. Applications must track namespace information themselves if they want to use namespace information.

* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/

Found in path(s):
* /opt/cola/permits/1151030406_1654022967.9565017/0/txw2-2-3-0-sources-4-jar/com/sun/xml/txw2/NamespaceSupport.java

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* /opt/cola/permits/1151030406_1654022967.9565017/0/txw2-2-3-0-sources-4-
  jar/com/sun/xml/txw2/output/XMLWriter.java

1.511 jaxb-core 2.1.12

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1.515 transport-netty4-client 6.8.5

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1.517 java-support 7.3.0

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Initialize empty image
f1c9645d0c14ef5dc7d8a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266e2d0505067c18f2e9 bsd.img

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

-------------------
Create 1st primary partition
ada64ace122978d00d1dc05ee45d26 bsd.img

---layout---------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

-------------------
Create 2st primary partition
1bebf8724e05d6e462749da65d023 bsd.img
Set 2nd partition type
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD

Create default BSD

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start End Sectors Size Type Fsize Bsize Cpg
c 4096 20479 16384 8M unused 0 0 0
d 0 16064 16065 7.9M unused 0 0 0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a     4096  6144  2049    1M 4.2BSD       0     0   0
b     4096 20479 16384    8M unused       0     0   0
d     0 16064 16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):
0  unused           5  4.1BSD           9  4.4LFS     d  boot
1  swap             6  Eighth Edition   a  unknown   e  ADOS
2  Version 6        7  4.2BSD           b  HPFS       f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660   10  AdvFS
4  System V

Command (m for help):
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1.528 jopt-simple 5.0.2

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Found in path(s):
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/AbbreviationMap.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/MultipleArgumentsForOptionException.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ValueConverter.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ValueConversionException.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/MethodInvokingValueConverter.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/IllegalOptionSpecificationException.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/UnconfiguredOptionException.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionException.java
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Found in path(s):
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5.0.2-sources-jar/joptsimple/util/EnumConverter.java

1.529 libxcursor 1.1.15-1.el7.0atomix1

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1.530 kerberos 1.15.1

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
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lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
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lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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1.536 log-rotate 3.8.6 19.el7

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  Dynamic chip feature detection (a.k.a. generic chip support) in
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  Support for multiple configuration files in libsensors.

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jar/org/eclipse/yasson/internal/serializer/ResolvedParameterizedType.java
* /opt/cola/permits/1003069649_1654023072.5172906/0/yasson-1-0-1-sources-
jar/org/eclipse/yasson/internal/serializer/StringTypeDeserializer.java
* /opt/cola/permits/1003069649_1654023072.5172906/0/yasson-1-0-1-sources-
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* /opt/cola/permits/1003069649_1654023072.5172906/0/yasson-1-0-1-sources-
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* /opt/cola/permits/1003069649_1654023072.5172906/0/yasson-1-0-1-sources-
jar/org/eclipse/yasson/internal/model/JsonbAnnotated.java
* /opt/cola/permits/1003069649_1654023072.5172906/0/yasson-1-0-1-sources-
jar/org/eclipse/yasson/internal/serializer/AbstractDateTimeSerializer.java
* /opt/cola/permits/1003069649_1654023072.5172906/0/yasson-1-0-1-sources-
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jar/springfox/documentation/spring/web/readers/operation/DefaultOperationReader.java
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jar/springfox/documentation/spring/web/scanners/ApiDescriptionLookup.java
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jar/springfox/documentation/spring/web/scanners/ApiDescriptionReader.java
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jar/springfox/documentation/spring/web/readers/operation/OperationDeprecatedReader.java
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jar/springfox/documentation/spring/web/plugins/ApiSelectorBuilder.java
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jar/springfox/documentation/spring/web/readers/operation/DefaultTagsProvider.java
* /opt/cola/permits/1177939630_1625570717.51/0/springfox-spring-web-2-9-2-sources-3-
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The following artifacts are EPL.
* org.eclipse.jetty.orbit.org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit.java.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl
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org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.555 iputils 20160308 10.el7

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 */
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [JSRInlinerAdapter(int, MethodVisitor, int, String, String, String[], String[])]
 * constructor.
 * @param mv
 *      the <code>MethodVisitor</code> to send the resulting inlined
 *      method code to (use <code>null</code> for none).
 * @param access
 *      the method's access flags (see [Opcodes]). This
 *      parameter also indicates if the method is synthetic and/or
 *      deprecated.
 * @param name
 *      the method's name.
 * @param desc
```
the method's descriptor (see [@link Type]).
* @param signature
*   the method's signature. May be <tt>null</tt>.
* @param exceptions
*   the internal names of the method's exception classes (see
*   { [@link Type#getInternalName() getInternalName ] ). May be
*   <tt>null</tt>.
*/

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/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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 * version.
 */

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* /opt/cola/permits/1000875375_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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* /opt/cola/permits/1000875375_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
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 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 *
 * @param access
 * the method's access flags (see @link Opcodes).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see @link Type).
 */

/**
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*/
/**
* Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
* version.
*
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @param mv
* the method visitor to which this adapter delegates calls. May
* be <tt>null</tt>.
*/

Found in path(s):
* /opt/cola/permits/1000875375_1646171531.03/0/asm-4-1-sources-
* jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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*/
/**
 * Constructs a new [@link ClassNode].  <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link ClassNode(int)]
 * version.
 */

Found in path(s):
* /opt/cola/permits/1000875375_1646171531.03/0/asm-4-1-sources-jar/org/objectweb/asm/tree/ClassNode.java

1.557 jboss-connector-api-1-7-spec

1.0.1.Final

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* /opt/cola/permits/1110676523_1654022868.9243972/0/jboss-connector-api-1-7-spec-1-0-1-final-sources-2.jar/META-INF/maven/org.jboss.spec.javax.resource/jboss-connector-api_1.7_spec/pom.xml
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* /opt/cola/permits/1110676523_1654022868.9243972/0/jboss-connector-api-1-7-spec-1-0-1-final-sources-2.jar/javax/resource/AdministeredObjectDefinition.java
* /opt/cola/permits/1110676523_1654022868.9243972/0/jboss-connector-api-1-7-spec-1-0-1-final-sources-2.jar/javax/resource/ConnectionFactoryDefinitions.java
* /opt/cola/permits/1110676523_1654022868.9243972/0/jboss-connector-api-1-7-spec-1-0-1-final-sources-2.jar/javax/resource/ConnectionFactoryDefinition.java
* /opt/cola/permits/1110676523_1654022868.9243972/0/jboss-connector-api-1-7-spec-1-0-1-final-sources-2.jar/javax/resource/AdministeredObjectDefinitions.java

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* /opt/cola/permits/1110676523_1654022868.9243972/0/jboss-connector-api-1-7-spec-1-0-1-final-sources-2.jar/javax/resource/spi/TransactionSupport.java
* /opt/cola/permits/1110676523_1654022868.9243972/0/jboss-connector-api-1-7-spec-1-0-1-final-sources-2.jar/javax/resource/spi/work/HintsContext.java
* /opt/cola/permits/1110676523_1654022868.9243972/0/jboss-connector-api-1-7-spec-1-0-1-final-sources-2-

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1.559 concurrent 1.3.4

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History:
Date Who What
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*/

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Date       Who                What
7Jul1998   dl               Create public version
11Oct1999 dl               add hashCode
*/

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* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources.jar/EDU/oswego/cs/dl/util/concurrent/misc/Fraction.java
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11Jun1998 dl               Create public version
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19Jun1998  dl  Create public version
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Date   Who     What
11Jul1998  dl  Create public version
28Aug1998  dl  minor code simplification
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/CyclicBarrier.java
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History:
Date    Who    What
19Jun1998  dl  Create public version
29Aug1998  dl  rely on ThreadFactoryUser,
               remove ThreadGroup-based methods
               adjusted locking policies
3Mar1999  dl  Worker threads sense decreases in pool size
31Mar1999  dl  Allow supplied channel in constructor;
               add methods createThreads, drain
15May1999  dl  Allow infinite keepalives
21Oct1999  dl  add minimumPoolSize methods
7Sep2000  dl  BlockedExecutionHandler now an interface,
               new DiscardOldestWhenBlocked policy
12Oct2000  dl  add shutdownAfterProcessingCurrentlyQueuedTasks
13Nov2000  dl  null out task ref after run
08Apr2001  dl  declare inner class ctor protected
12Nov2001  dl  Better shutdown support
               Blocked exec handlers can throw IE
               Simplify locking scheme
25Jan2001  dl  {get,set}BlockedExecutionHandler now public
17May2002  dl  null out task var in worker run to enable GC.
30Aug2003  dl  check for new tasks when timing out
18Feb2004  dl  replace dead thread if no others left
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1.3-4-sources-
  jar/EDU/oswego/cs/dl/util/concurrent/PooledExecutor.java
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Date    Who    What
1Aug1998  dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1.3-4-sources-
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History:
Date   Who   What
14Mar1999 dl   first release
*/

Found in path(s):
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Date   Who   What
11Jun1998 dl   Create public version
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11Jun1998  dl               Create public version

*/

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History:
Date    Who    What
23Jun1998 dl Create public version
13may2004 dl Add notifying bit ops
*/

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History:
Date    Who    What
21Jun1998 dl Create public version
9Oct1999 dl faster equals
29jun2001 dl Serialization methods now private
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
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  * you entered into with Sun.

History:
Date    Who    What
21Jun1998 dl Create public version
9Oct1999 dl faster equals
29jun2001 dl Serialization methods now private
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
  jar/EDU/oswego/cs/dl/util/concurrent/CopyOnWriteArrayList.java
No license file was found, but licenses were detected in source scan.

File: WaitableFloat.java
Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who    What
23Jun1998  dl      Create public version
*/

Found in path(s):
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/WaitableFloat.java

No license file was found, but licenses were detected in source scan.

/*
Converted from heat.cilk, which is
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* Technology.
* *
*/

Found in path(s):
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/taskDemo/Heat.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableChar.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
23Jun1998  dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/WaitableChar.java
No license file was found, but licenses were detected in source scan.

/*
File: FJTaskRunnerGroup.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
7Jan1999   dl    First public release
12Jan1999  dl    made getActiveCount public; misc minor cleanup.
14Jan1999  dl    Added executeTask
20Jan1999  dl    Allow use of priorities; reformat stats
6Feb1999   dl    Lazy thread starts
27Apr1999  dl    Renamed
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunnerGroup.java
No license file was found, but licenses were detected in source scan.

/*
File: Mutex.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl   Create public version

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/Mutex.java
No license file was found, but licenses were detected in source scan.

/*
File: ReentrantLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl   Create public version
5Aug1998 dl   replaced int counters with longs

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/ReentrantLock.java
No license file was found, but licenses were detected in source scan.

/*
File: BrokenBarrierException.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
29Jun1998 dl   Create public version

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
File: SyncMap.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who     What
1Aug1998 dl   Create public version

File: Channel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who     What
11Jun1998 dl   Create public version
25aug1998 dl   added peek

File: WaitableBoolean.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:
Date   Who   What
19Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/WaitableBoolean.java
No license file was found, but licenses were detected in source scan.

File: TimeoutSync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
1Aug1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/TimeoutSync.java
No license file was found, but licenses were detected in source scan.

File: SynchronizedVariable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
30Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedVariable.java
No license file was found, but licenses were detected in source scan.

File: ConcurrentHashMap
Written by Doug Lea. Adapted and released, under explicit
permission, from JDK1.2 HashMap.java and Hashtable.java which
carries the following copyright:

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* shall not disclose such Confidential Information and shall use
* it only in accordance with the terms of the license agreement
* you entered into with Sun.

History:
Date       Who                What
26nov2000  dl               Created, based on ConcurrentReaderHashMap
12jan2001  dl               public release
17nov2001  dl               Minor tunings
24oct2003  dl               Segment implements Serializable
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentHashMap.java
No license file was found, but licenses were detected in source scan.

/

File: LockedExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
21Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/LockedExecutor.java
No license file was found, but licenses were detected in source scan.

/

File: LinkedNode.java
Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>25may2000</td>
<td>dl</td>
<td>Change class access to public</td>
</tr>
<tr>
<td>26nov2001</td>
<td>dl</td>
<td>Added no-arg constructor, all public access.</td>
</tr>
</tbody>
</table>

*/

Found in path(s):

* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/LinkedNode.java

No license file was found, but licenses were detected in source scan.

/*

File: Sync.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>5Aug1998</td>
<td>dl</td>
<td>Added some convenient time constants</td>
</tr>
</tbody>
</table>

*/

Found in path(s):

* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/Sync.java

No license file was found, but licenses were detected in source scan.

/*

File: FJTaskRunner.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>7Jan1999</td>
<td>dl</td>
<td>First public release</td>
</tr>
</tbody>
</table>
13Jan1999 dl correct a stat counter update;  
ensure inactive status on run termination;  
misc minor cleanup  
14Jan1999 dl Use random starting point in scan;  
variable renamings.  
18Jan1999 dl Runloop allowed to die on task exception;  
remove useless timed join  
22Jan1999 dl Rework scan to allow use of priorities.  
6Feb1999 dl Documentation updates.  
7Mar1999 dl Add array-based coInvoke  
31Mar1999 dl Revise scan to remove need for NullTasks  
27Apr1999 dl Renamed  
23Oct1999 dl Earlier detect of interrupt in scanWhileIdling  
24Nov1999 dl Now works on JVMs that do not properly  
implement read-after-write of 2 volatiles.  
*/

Found in path(s):  
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunner.java  
No license file was found, but licenses were detected in source scan.  
*/

File: Takable.java

Originally written by Doug Lea and released into the public domain.  
This may be used for any purposes whatsoever without acknowledgment.  
Thanks for the assistance and support of Sun Microsystems Labs,  
and everyone contributing, testing, and using this code.

History:  
Date Who What  
11Jun1998 dl Create public version  
*/

Found in path(s):  
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/Takable.java  
No license file was found, but licenses were detected in source scan.  
*/

File: PropertyChangeMulticaster.java

Originally written by Doug Lea and released into the public domain.  
This may be used for any purposes whatsoever without acknowledgment.  
Thanks for the assistance and support of Sun Microsystems Labs,  
and everyone contributing, testing, and using this code.
This class is based on Sun JDK java.beans.VetoableChangeSupport, which is copyrighted by Sun. (It shares practically no code, but for consistency, the documentation was lifted and adapted here.)

History:
Date     Who     What
14Mar1999 dl     first release
*/

Found in path(s):
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/PropertyChangeMulticaster.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronousChannel.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date     Who     What
11Jun1998 dl     Create public version
17Jul1998 dl     Disabled direct semaphore permit check
31Jul1998 dl     Replaced main algorithm with one with better scaling and fairness properties.
25aug1998 dl     added peek
24Nov2001 dl     Replaced main algorithm with faster one.
*/

Found in path(s):
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SynchronousChannel.java
No license file was found, but licenses were detected in source scan.

/*
File: SemaphoreControlledChannel.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date     Who     What
16Jun1998 dl     Create public version
5Aug1998   dl  replaced int counters with longs
08dec2001   dl  reflective constructor now uses longs too.
*/

Found in path(s):
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1.3.4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SemaphoreControlledChannel.java
No license file was found, but licenses were detected in source scan.

/*
File: NullSync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who               What
1Aug1998  dl            Create public version
*/

Found in path(s):
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1.3.4-sources-jar/EDU/oswego/cs/dl/util/concurrent/NullSync.java
No license file was found, but licenses were detected in source scan.

version.
<li>All classes are released to the public domain and may be used

Found in path(s):
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1.3.4-sources-jar/EDU/oswego/cs/dl/util/concurrent/package-summary.html
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1.3.4-sources-jar/EDU/oswego/cs/dl/util/concurrent/package.html
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1.3.4-sources-jar/EDU/oswego/cs/dl/util/concurrent/intro.html
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizationTimer.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
7Jul1998   dl               Create public version
16Jul1998  dl               fix initialization error for compute loops
combined into one frame
misc layout and defaults changes
increase printed precision
overlap get/set in Executor tests
Swap defaults for swing import
Active thread counts reflect executors
30Aug1998 dl                Misc revisions to mesh with 1.1.0
27Jan1999 dl                Eliminate GC calls
24Nov2001 dl                Increase some default values
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/misc/SynchronizationTimer.java
No license file was found, but licenses were detected in source scan.

*/

File: WaitableRef.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
19Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/WaitableRef.java
No license file was found, but licenses were detected in source scan.

*/

File: SynchronizedLong.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
19Jun1998  dl               Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()
23Jan04 dl synchronize self-swap case for swap
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedLong.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedRef.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who         What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedRef.java
No license file was found, but licenses were detected in source scan.

/*
File: QueuedSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who                 What
11Jun1998 dl Create public version
5Aug1998 dl replaced int counters with longs
24Aug1999 dl release(n): screen arguments
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/QueuedSemaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableByte.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
23Jun1998 dl  Create public version
13may2004 dl  Add notifying bit ops

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/WaitableByte.java
No license file was found, but licenses were detected in source scan.

/
File: ReaderPreferenceReadWriteLock.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl  Create public version

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/ReaderPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/
File: SynchronizedDouble.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
19Jun1998 dl  Create public version
15Apr2003 dl  Removed redundant "synchronized" for multiply()
Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedDouble.java
No license file was found, but licenses were detected in source scan.

File: Callable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
30Jun1998  dl    Create public version
5Jan1999   dl    Change Exception to Throwable in call signature
27Jan1999  dl    Undo last change

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/Callable.java
No license file was found, but licenses were detected in source scan.

File: BoundedLinkedQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998  dl    Create public version
17Jul1998  dl    Simplified by eliminating wait counts
25aug1998  dl    added peek
10oct1999  dl    lock on node object to ensure visibility
27jan2000  dl    setCapacity forces immediate permit reconcile

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/BoundedLinkedQueue.java
No license file was found, but licenses were detected in source scan.

/*
 File: WriterPreferenceReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who        What
11Jun1998 dl  Create public version
5Aug1998 dl  replaced int counters with longs
25aug1998 dl  record writer thread
3May1999 dl  add notifications on interrupt/timeout

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/WriterPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
 File: WaitableInt.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who        What
23Jun1998 dl  Create public version
13may2004 dl  Add notifying bit ops

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/WaitableInt.java
No license file was found, but licenses were detected in source scan.

/*
 File: SynchronizedShort.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
19Jun1998  dl               Create public version
15Apr2003  dl               Removed redundant "synchronized" for multiply()

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedShort.java
No license file was found, but licenses were detected in source scan.

/

File: ReadWriteLock.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/ReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/

File: WaitableDouble.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
23Jun1998  dl               Create public version

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/WaitableDouble.java
No license file was found, but licenses were detected in source scan.

/*
 File: BoundedBuffer.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who    What
11Jun1998  dl     Create public version
17Jul1998  dl     Simplified by eliminating wait counts
25aug1998  dl     added peek
5May1999   dl     replace % with conditional (slightly faster)
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/BoundedBuffer.java
No license file was found, but licenses were detected in source scan.

/*
 TimedCallable.java

Originally written by Joseph Bowbeer and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.

Originally part of jozart.swingutils.
Adapted by Doug Lea for util.concurrent.

History:
Date       Who    What
11dec1999  dl     Adapted for util.concurrent

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/TimedCallable.java
No license file was found, but licenses were detected in source scan.

/*
 File: Rendezvous.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

Date    Who    What
11Jun1998  dl    Create public version
30Jul1998  dl    Minor code simplifications

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/Rendezvous.java

No license file was found, but licenses were detected in source scan.

*/

File: FutureResult.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

Date    Who    What
30Jun1998  dl    Create public version

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/FutureResult.java

No license file was found, but licenses were detected in source scan.

*/

File: SyncSet.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

Date    Who    What
1Aug1998  dl    Create public version

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SyncSet.java
No license file was found, but licenses were detected in source scan.

/*
File: LinkedQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date     Who    What
11Jun1998 dl      Create public version
25aug1998 dl      added peek
10dec1998 dl      added isEmpty
10oct1999 dl      lock on node object to ensure visibility
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/LinkedQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: Task.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date     Who    What
7Jan1999  dl     first release
14jan1999 dl     simplify start() semantics;
                 improve documentation
18Jan1999 dl     Eliminate useless time-based waits.
7Mar1999 dl      Add reset method,
                 add array-based composite operations
27Apr1999 dl     Rename
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/FJTask.java
No license file was found, but licenses were detected in source scan.

/
File: ConcurrentReaderHashMap

Written by Doug Lea. Adapted and released, under explicit permission, from JDK1.2 HashMap.java and Hashtable.java which carries the following copyright:

* Copyright 1997 by Sun Microsystems, Inc.,
* 901 San Antonio Road, Palo Alto, California, 94303, U.S.A.
* All rights reserved.
*
* This software is the confidential and proprietary information
* of Sun Microsystems, Inc. ("Confidential Information"). You
* shall not disclose such Confidential Information and shall use
* it only in accordance with the terms of the license agreement
* you entered into with Sun.

History:
Date       Who                What
28oct1999 dl               Created
14dec1999 dl               jmm snapshot
19apr2000 dl               use barrierLock
12jan2001 dl               public release
17nov2001 dl               Minor tunings
20may2002 dl               BarrierLock can now be serialized.
09dec2002 dl               Fix interference checks.
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentReaderHashMap.java
No license file was found, but licenses were detected in source scan.

/

File: ObservableSync.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
1Aug1998 dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/ObservableSync.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedFloat.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date      Who    What
19Jun1998 dl      Create public version
15Apr2003 dl    Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
  jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedFloat.java
No license file was found, but licenses were detected in source scan.

/*
File: SyncList.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date      Who    What
1Aug1998  dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
  jar/EDU/oswego/cs/dl/util/concurrent/SyncList.java
No license file was found, but licenses were detected in source scan.

/*
File: Latch.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

```
*/
```

Found in path(s):
```
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources.jar/EDU/oswego/cs/dl/util/concurrent/Latch.java
```
No license file was found, but licenses were detected in source scan.

```
*/
```

File: ConditionVariable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
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<th>Date</th>
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<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

```
*/
```

Found in path(s):
```
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources.jar/EDU/oswego/cs/dl/util/concurrent/CondVar.java
```
No license file was found, but licenses were detected in source scan.

```
*/
```

File: ThreadedExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
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</tr>
</thead>
<tbody>
<tr>
<td>21Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>28aug1998</td>
<td>dl</td>
<td>factored out ThreadFactoryUser</td>
</tr>
</tbody>
</table>

```
*/
```

Found in path(s):
```
*/opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources.jar/EDU/oswego/cs/dl/util/concurrent/ThreadedExecutor.java
```
No license file was found, but licenses were detected in source scan.

```
*/
```

File: DirectExecutor.java
Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
21Jun1998 dl   Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/DirectExecutor.java
No license file was found, but licenses were detected in source scan.
*/

File: Heap.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
29Aug1998 dl   Refactored from BoundedPriorityQueue
08dec2001 dl   Null out slots of removed items
03feb2002 dl   Also null out in clear
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/Heap.java
No license file was found, but licenses were detected in source scan.
*/

File: ClockDaemon.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
29Aug1998 dl   created initial public version
17dec1998 dl   null out thread after shutdown
Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/ClockDaemon.java
No license file was found, but licenses were detected in source scan.

File: WaitFreeQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date      Who    What
16Jun1998 dl     Create public version
5Aug1998 dl     replaced int counters with longs
17Nov2001 dl    Simplify given Bill Pugh's observation
                that counted pointers are unnecessary.

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/WaitFreeQueue.java
No license file was found, but licenses were detected in source scan.

File: SynchronizedChar.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date      Who    What
19Jun1998 dl     Create public version

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedChar.java
No license file was found, but licenses were detected in source scan.

File: WaitableLong.java
Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
23Jun1998  dl               Create public version
13may2004  dl               Add notifying bit ops

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32j0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/WaitableLong.java
No license file was found, but licenses were detected in source scan.

/*
File: SyncSortedMap.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
1Aug1998   dl               Create public version

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32j0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedMap.java
No license file was found, but licenses were detected in source scan.

/*
File: WaiterPreferenceSemaphore.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version
5Aug1998   dl               replaced int counters with longs

*/
Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/WaiterPreferenceSemaphore.java
No license file was found, but licenses were detected in source scan.

/
File: SynchronizedByte.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
19Jun1998 dl   Create public version
15Apr2003 dl   Removed redundant "synchronized" for multiply()

/

File: ThreadFactoryUser.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
28aug1998 dl   refactored from Executor classes

/

File: Semaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>5Aug1998</td>
<td>dl</td>
<td>replaced int counters with longs</td>
</tr>
<tr>
<td>24Aug1999</td>
<td>dl</td>
<td>release(n): screen arguments</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
 */opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/Semaphore.java

No license file was found, but licenses were detected in source scan.

/*

File: QueuedExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>21Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>2Aug1998</td>
<td>dl</td>
<td>rely on ThreadFactoryUser, restart now public</td>
</tr>
<tr>
<td>4May1999</td>
<td>dl</td>
<td>removed redundant interrupt detect</td>
</tr>
<tr>
<td>7Sep2000</td>
<td>dl</td>
<td>new shutdown methods</td>
</tr>
<tr>
<td>20May2004</td>
<td>dl</td>
<td>can shutdown even if thread not created yet</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
 */opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/QueuedExecutor.java

No license file was found, but licenses were detected in source scan.

/*

File: ThreadFactory.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>30Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactory.java

No license file was found, but licenses were detected in source scan.

*/

File: Executor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who        What
19Jun1998 dl       Create public version

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/Executor.java

No license file was found, but licenses were detected in source scan.

*/

File: BoundedPriorityQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who        What
16Jun1998 dl       Create public version
25aug1998 dl       added peek
29aug1998 dl       pulled heap mechanics into separate class

*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/BoundedPriorityQueue.java

No license file was found, but licenses were detected in source scan.

*/

File: ReentrantWriterPreferenceReadWriteLock.java
Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>26aug1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>7sep2000</td>
<td>dl</td>
<td>Readers are now also reentrant</td>
</tr>
<tr>
<td>19jan2001</td>
<td>dl</td>
<td>Allow read-&gt;write upgrades if the only reader</td>
</tr>
<tr>
<td>10dec2002</td>
<td>dl</td>
<td>Throw IllegalStateException on extra release</td>
</tr>
</tbody>
</table>

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/ReentrantWriterPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.


File: TimeoutException.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>29Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>4Aug1998</td>
<td>dl</td>
<td>Change to extend InterruptedException</td>
</tr>
</tbody>
</table>

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/TimeoutException.java
No license file was found, but licenses were detected in source scan.


File: SwingWorker.java

Originally written by Joseph Bowbeer and released into the public domain. This may be used for any purposes whatsoever without acknowledgment.

Originally part of jozart.swingutils.
Adapted for util.concurrent by Joseph Bowbeer.
Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/misc/SwingWorker.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedInt.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
19Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedInt.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedChannel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
jar/EDU/oswego/cs/dl/util/concurrent/BoundedChannel.java
No license file was found, but licenses were detected in source scan.

/*
File: CountDown.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/CountDown.java
No license file was found, but licenses were detected in source scan.

/*
File: SyncSortedSet.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
1Aug1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedSet.java
No license file was found, but licenses were detected in source scan.

/*
File: PrioritySemaphore.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-jar/EDU/oswego/cs/dl/util/concurrent/PrioritySemaphore.java
No license file was found, but licenses were detected in source scan.
/*
File: Slot.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version
25aug1998  dl               added peek
*/

Found in path(s):
* /opt/cola/permits/1000738798_1646171492.32/0/concurrent-1-3-4-sources-
  jar/EDU/oswego/cs/dl/util/concurrent/Slot.java

1.560 artemis-hqclient-protocol 1.1.0.wildfly-017

1.560.1 Available under license:
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http://www.apache.org/licenses/

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* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/framework/AdvisedSupportListener.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/IntroductionInterceptor.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/springframework/aop/config/AspectEntry.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/springframework/aop/AfterAdvice.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/springframework/aop/framework/AopInfrastructureBean.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/springframework/aop/framework/AopTargetAccess.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/springframework/aop/SpringProxy.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/springframework/aop/BeforeAdvice.java

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* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/aopalliance/intercept/MethodInvocation.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/aopalliance/intercept/Interceptor.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/springframework/aop/framework/AopContext.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/aopalliance/intercept/ConstructorInvocation.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2.jar/org/aopalliance/intercept/Interceptar.java
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jar/org/aopalliance/intercept/ConstructorInterceptor.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/aopalliance/intercept/MethodInterceptor.java
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* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/aopalliance/aop/Advice.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/aopalliance/intercept/Joinpoint.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/aopalliance/intercept/Invocation.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/aopalliance/aop/AspectException.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/framework/ProxyFactory.java

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* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/framework/AdvisedSupport.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/MethodMatcher.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/support/RootClassFilter.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/framework/MethodInvocationProceedingJoinPoint.java
* /opt/cola/permits/1136595050_1613806558.8/0/spring-aop-5-0-8-release-sources-2-jar/org/springframework/aop/framework/CglibAopProxy.java
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jar/org/wildfly/security/auth/realm/token/validator/JwkManager.java
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jar/META-INF/maven/org.wildfly.security/wildfly-elytron-realm-token/pom.xml
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*/
/**
 * <p>The identifier of a client registered within the OAuth2 Authorization Server that will be used to
 authenticate this server
 * in order to validate bearer tokens arriving to this server.
 *
 * <p>Please note that the client will be usually a confidential client with both an identifier and secret
 configured in order to
 * authenticate against the token introspection endpoint. In this case, the endpoint must support HTTP BASIC
 authentication using
 * the client credentials (both id and secret).
 *
 * @param clientId the identifier of a client within the OAuth2 Authorization Server
 * @return this instance
 */

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* /opt/ws_local/PERMITS_SQL/1091709932_1600571439.4/0/wildfly-elytron-realm-token-1-11-2-final-sources-
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jar/org/wildfly/security/auth/realm/token/_private/ElytronMessages.java
1.570 logback-core 1.2.3
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* /opt/cola/permits/1110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
  jar/ch/qos/logback/core/pattern/color/MagentaCompositeConverter.java
* /opt/cola/permits/1110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
  jar/ch/qos/logback/core/joran/conditional/ElseAction.java
* /opt/cola/permits/1110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
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* /opt/cola/permits/1110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
  jar/ch/qos/logback/core/net/server/RemoteReceiverServerListener.java
* /opt/cola/permits/1110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
  jar/ch/qos/logback/core/util/StatusPrinter.java
* /opt/cola/permits/1110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
  jar/ch/qos/logback/core/pattern/PatternLayoutBase.java
* /opt/cola/permits/1110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
  jar/ch/qos/logback/core/pattern/color/GreenCompositeConverter.java
* /opt/cola/permits/1110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
  jar/ch/qos/logback/core/pattern/color/MagentaCompositeConverter.java
* /opt/cola/permits/1110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
  jar/ch/qos/logback/core/pattern/IdentityCompositeConverter.java
*/
jar/ch/qos/logback/core/spi/DeferredProcessingAware.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/hook/DelayingShutdownHook.java
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jar/ch/qos/logback/core/joran/spi/NoAutoStartUtil.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/pattern/FormattingConverter.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/db/dialect/DBUtil.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/joran/spi/RuleStore.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/net/ssl/SSLPARAMETERSConfiguration.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/db/JNDIConnectionFactory.java
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jar/ch/qos/logback/core/pattern/parser/Node.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/util/LocationUtil.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/encoder/EchoEncoder.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/joran/action/NewRuleAction.java
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jar/ch/qos/logback/core/db/dialect/SQLDialect.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/joran/action/ConversionRuleAction.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/util/StatusListenerConfigHelper.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/pattern/parser/OptionTokenizer.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/status/ErrorStatus.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/net/ssl/SSLSocket.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/spi/LifeCycle.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/pattern/regexp/RegularEscapeUtil.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/spi/ComponentTracker.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/rolling/FixedWindowRollingPolicy.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/net/LoginAuthenticator.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
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jar/ch/qos/logback/core/recovery/ResilientSyslogOutputStream.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/pattern/parser/SimpleKeywordNode.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
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* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/rolling/RolloverFailure.java
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jar/ch/qos/logback/core/joran/spi/HostClassAndPropertyDouble.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/pattern/color/BoldGreenCompositeConverter.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/util/CharSequenceToRegexMapper.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
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* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/rolling/TriggersPolicyBase.java
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jar/ch/qos/logback/core/rolling/TriggersPolicyBase.java
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* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/util/CloseUtil.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/spi/LogbackLock.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/joran/spi/ActionException.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/net/ssl/ConfigurableSSLServerSocketFactory.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
jar/ch/qos/logback/core/net/ssl/ContextFactoryBean.java
* /opt/cola/permits/110662344_1654022922.1868844/0/logback-core-1-2-3-sources-1-
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* /opt/cola/permits/1003070155_1646171676.14/0/vdx-core-1-1-6-sources-jar/org/projectodd/vdx/core/handlers/UnknownErrorHandler.java
* /opt/cola/permits/1003070155_1646171676.14/0/vdx-core-1-1-6-sources-jar/org/projectodd/vdx/core/ValidationContext.java
* /opt/cola/permits/1003070155_1646171676.14/0/vdx-core-1-1-6-sources-jar/org/projectodd/vdx/core/Stringifier.java
* /opt/cola/permits/1003070155_1646171676.14/0/vdx-core-1-1-6-sources-jar/org/projectodd/vdx/core/ElementListStringifier.java
* /opt/cola/permits/1003070155_1646171676.14/0/vdx-core-1-1-6-sources-jar/org/projectodd/vdx/core/handlers/RequiredElementMissingHandler.java
* /opt/cola/permits/1003070155_1646171676.14/0/vdx-core-1-1-6-sources-jar/org/projectodd/vdx/core/handlers/RequiredElementsMissingHandler.java
* /opt/cola/permits/1003070155_1646171676.14/0/vdx-core-1-1-6-sources-jar/org/projectodd/vdx/core/ErrorHandler.java
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The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-api

## Third-party Content

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None

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1.582 jsr311-api 1.1.1
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Found in path(s):
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6-
  jar/javawsrs/core/Request.java
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* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/core/GenericEntity.java
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Found in path(s):
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/POST.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/Path.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/webapp/WebApplicationException.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/DELETE.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/core/Cookie.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/ext/Provider.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/OPTIONS.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/core/UriBuilderException.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/core/Application.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/core/CacheControl.java
* /opt/cola/permits/1150985925_1654022939.907158/0/jsr311-api-1-1-1-sources-6.jar/javax/ws/rs/core/SecurityContext.java
1.583 Jackson-data 1.9.13

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1.584 libsrtp 1.4.4-11.20101004cvs.el7

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*/

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 *
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 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/wrtarga.c

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 * jdtrans.c
 *
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 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
* /

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdtrans.c
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* 
* This file contains routines to read input images in GIF format.
*
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                      *
*****************************************************************************
*
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*
/*

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* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/rdgif.c
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Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djepg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".
THE JPEG LIBRARY

Include files:

jpeglib.h: JPEG library's exported data and function declarations.
jconfig.h: Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h: Additional configuration declarations; need not be changed for a standard installation.
jerro.h: Declares JPEG library's error and trace message codes.
jinclud.e: Central include file used by all IJG .c files to reference system include files.
jpegin.h: JPEG library's internal data structures.
jdct.h: Private declarations for forward & reverse DCT subsystems.
jmemsys.h: Private declarations for memory management subsystem.
jversion.h: Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerro.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclud.e, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclud.e.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

jcapimin.c: Application program interface: core routines for compression.
jcapistd.c: Application program interface: standard compression.
jdapimin.c: Application program interface: core routines for decompression.
jdapistd.c: Application program interface: standard decompression.
jcomapi.c: Application program interface routines common to compression and decompression.
jcparam.c: Compression parameter setting helper routines.
jctrans.c: API and library routines for transcoding compression.
jdtrans.c: API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c: Initialization: determines which other modules to use.
Master control: setup and inter-pass sequencing logic.
Main buffer controller (preprocessor => JPEG compressor).
Preprocessor buffer controller.
Buffer controller for DCT coefficient buffer.
Color space conversion.
Downsampling.
DCT manager (DCT implementation selection & control).
Forward DCT using slow-but-accurate integer method.
Forward DCT using faster, less accurate integer method.
Forward DCT using floating-point arithmetic.
Huffman entropy coding.
Arithmetic entropy coding.
JPEG marker writing.
Data destination managers for memory and stdio output.

Decompression side of the library:

Master control: determines which other modules to use.
Input controller: controls input processing modules.
Main buffer controller (JPEG decompressor => postprocessor).
Buffer controller for DCT coefficient buffer.
Postprocessor buffer controller.
JPEG marker reading.
Huffman entropy decoding.
Arithmetic entropy decoding.
IDCT manager (IDCT implementation selection & control).
Inverse DCT using slow-but-accurate integer method.
Inverse DCT using faster, less accurate integer method.
Inverse DCT using floating-point arithmetic.
Upsampling.
Merged upsampling/color conversion (faster, lower quality).
One-pass color quantization using a fixed-spacing colormap.
Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
Data source managers for memory and stdio input.

Support files for both compression and decompression:

Tables for common use in arithmetic entropy encoding and decoding routines.
Standard error handling routines (application replaceable).
System-independent (more or less) memory management code.
Miscellaneous utility routines.

The IJG distribution includes the following implementations of the system-dependent module:
jnemnobs.c "No backing store": assumes adequate virtual memory exists.
jmemansi.c Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c Makes temporary files with program-generated file names.
jmemdos.c Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.
jmemmac.c Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jnemdos.asm80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEGLDJPEGJPEGTRAN
====================

Include files:

cdjpeg.h Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h Additional error and trace message codes for cjpeg et al.
transupp.h Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c Main program for cjpeg.
djpeg.c Main program for djpeg.
jpegtran.c Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdbmp.c Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c Code to process some of cjpeg's more complex switches. Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdgif.c GIF file input (now just a stub).
rddpm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.
Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrgif.c GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrle.c Utah RLE file output.
wrtega.c Targa file output.

RDJPGCOM/WRJPGCOM

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmpain.sh Support scripts for configure (from GNU libtool).
cfg.guess
config.sub
decomp
missing
ar-lib
compile
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
cfgconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak*. Sample makefiles for particular systems.
jconfig.* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
aclocal.m4 M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*. Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
*/opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/filelist.txt

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 * jdinput.c
 *
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 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
 */

Found in path(s):
*/opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdinput.c

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 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
 * stored in extended or expanded memory as well as in regular DOS files.
 *
 * If you use this file, you must be sure that NEED_FAR_POINTERS is defined
 * if you compile in a small-data memory model; it should NOT be defined if
 * you use a large-data memory model. This file is not recommended if you

* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
* 
* Based on code contributed by Ge' Weijers.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 * 
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 * 
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
Open Source Used In Data Center Network Manager 11.5(1) 5557

No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2002-2011 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
  */opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/**
 * jdcolor.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
  */opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdcolor.c
No license file was found, but licenses were detected in source scan.

/**
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common support routines used by the IJG application
 * programs (cjjpeg, djpeg, jpegtran).
 */

Found in path(s):
  */opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/cderror.h

No license file was found, but licenses were detected in source scan.

/*
 * jmorecfg.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jmorecfg.h

No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
This file contains a fast, not so accurate integer implementation of the forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math, accuracy is lost due to imprecise representation of the scaled quantization values. The smaller the quantization table entry, the less precise the scaled value, so this implementation does worse with high-quality-setting files than with low-quality ones.

This file contains a floating-point implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.

This implementation should be more accurate than either of the integer IDCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT.
on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplication or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jidctflt.c
No license file was found, but licenses were detected in source scan.

*/
* jquant2.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
0278ff0/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
*/opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modification developed 2003-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
We also provide FDCT routines with various input sample block sizes for direct resolution reduction or enlargement and for direct resolving the common 2x1 and 1x2 subsampling cases without additional resampling: NxN (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.

For N<8 we fill the remaining block coefficients with zero. For N>8 we apply a partial N-point FDCT on the input samples, computing just the lower 8 frequency coefficients and discarding the rest.

We must scale the output coefficients of the N-point FDCT appropriately to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling is folded into the constant multipliers (pass 2) and/or final/initial shifting.

CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases since there would be too many additional constants to pre-calculate.

jmemansi.c

Copyright (C) 1992-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides a simple generic implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that you have the ANSI-standard library routine tmpfile().
Also, the problem of determining the amount of memory available is shoved onto the user.

jquant1.c

Copyright (C) 1991-1996, Thomas G. Lane.
Modified 2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 * Both sequential and progressive modes are supported in this single module.
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jddctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jcomapi.c
No license file was found, but licenses were detected in source scan.
/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jerror.c
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/wrppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/110583619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/110583619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/wrrle.c
No license file was found, but licenses were detected in source scan.

/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
*Suspension is not currently supported in this module.*

* /

**Found in path(s):**

*/opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jcarith.c*

No license file was found, but licenses were detected in source scan.

**INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software**

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all. Try doing

```
./configure
make
make test
```

If that doesn't complain, do
```
make install
```
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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BEFORE YOU START

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.

(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script

If you are on a Unix machine, you can just type

```
./configure
```

and let the configure script construct appropriate configuration files.

If you're using "csh" on an old version of System V, you might need to type

```
sh configure
```
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions
for GNU configure scripts. It makes a few assumptions that you may want to
override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say
    ./configure --disable-shared
If you want to build libjpeg only as a shared library, say
    ./configure --disable-static
Configure uses GNU libtool to take care of system-dependent shared library
building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
To force a particular compiler to be selected, use the CC option, for example
    ./configure CC='cc'
The same method can be used to include any unusual compiler switches.
For example, on HP-UX you probably want to say
    ./configure CC='cc -Aa'
to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
You can override this by saying, for example,
    ./configure CFLAGS='-O2'
if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files
into /usr/local/bin, /usr/local/man, etc. You can specify an installation
prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG
software's internal virtual memory mechanism. To do this, give the option
    "--enable-maxmem=N" where N is the default maxmemory limit in megabytes.
This is discussed in more detail under "Selecting a memory manager", below.
You probably don't need to worry about this on reasonably-sized Unix machines,
unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling
or working in a network of multiple machine types; but if you need those
features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files
--------------------------------------------------------------------------------
If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C
makefile.sas jconfig.sas Amiga, SAS C
makefile.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior
makefile.jpeg jconfig.jpeg ST/STE/TT, Pure C or Turbo C
makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C
makefile.dj jconfig.dj MS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc Windows NT/95, MS Visual C++
make.vc jconfig.vc Windows NT/95, MS Visual C++ 6
make.v10 jconfig.vc Windows NT/95, MS Visual C++ 2010 (v10)
makefile.mms jconfig.mms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
--------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are

makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.

(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if
there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get cjpeg.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
-------------------

These programs can use a Unix-like command line style which supports redirection and piping, like this:

cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile

The simpler "two file" command line style is just

cjpeg inputfile outputfile

You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
---------------------------

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the
code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-) ) This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient
memory" failures. On most Unix machines (and other systems with virtual
memory), just set DEFAULT_MAX_MEM to several million and forget it. At the
other end of the spectrum, for MS-DOS machines you probably can't go much
above 300K to 400K. (On MS-DOS the value refers to conventional memory only.
Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=====================

Now you should be able to compile the software. Just say "make" (or
whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to
shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the
wrong ones, read jinclude.h. This shouldn't happen if you used configure
or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters;
some compilers will issue warnings about this, which you can ignore. There
are also a few configuration checks that may give "unreachable code" warnings.
Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
=====================

As a quick test of functionality we've included a small sample image in
several forms:
testorig.jpg Starting point for the djepg tests.
testing.ppm The output of djepg testorig.jpg
testing.bmp The output of djepg -bmp -colors 256 testorig.jpg
testing.jpg The output of cjpeg testing.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg.
testimg.jpg The output of cjpeg -progressive -optimize testing.ppm
(The first- and second-generation .jpg files aren't identical since the
default compression parameters are lossy.) If you can generate duplicates
of the testing*.ppm files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary
comparisons.

If you're using a makefile that doesn't provide the test option, run djjpeg and cjjpeg by hand and compare the output files to testing* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djjpeg <testorig.jpg >out.ppm" as from "djjpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FILENO defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djjpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE

Once you're done with the above steps, you can install the software by copying the executable files (cjjpeg, djjpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjjpeg.1, djjpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.
If you generated a Makefile with the "configure" script, you can just say
make install
to install the programs and their man pages into the standard places.
(You'll probably need to be root to do this.) We recommend first saying
make -n install
to see where configure thought the files should go. You may need to edit
the Makefile, particularly if your system's conventions for man page
filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other
programs besides ours, then you need to put the four include files
jpeglib.h jerror.h jconfig.h jmorecfg.h
into your include-file directory, and put the library file libjpeg.a
(extension may vary depending on system) wherever library files go.
If you generated a Makefile with "configure", it will do what it thinks
is the right thing if you say
make install-lib

OPTIONAL STUFF
==============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display
of percent-done progress reports. The routine provided in cdjpeg.c merely
prints percentages to stderr, but you can customize it to do something
fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster
Toolkit format) disabled, because the RLE support won't compile without the
Utah library. If you have URT version 3.1 or later, you can enable RLE
support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory
   containing the URT .h files (typically the "include"
   subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies
   the directory containing the URT "librle.a" file (typically the
   "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision.
(For color, this means 8 to 12 bits per channel, of course.) If you need to
work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 9, 10, 11, or 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later.
Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (rdppm.c) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to maxval=MAXJSAMPLE as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval=MAXJSAMPLE, when compiled with BITS_IN_JSAMPLE>8. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.
Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add
"#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
==========================

We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h'
Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JEPGTMP:"

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the
space used by temporary files created with "tmpfile()" not to be freed after
an abnormal program exit. If you check your disk afterwards, you will find
cluster chains that are allocated but not used by a file. This should not
happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly
close temp files before exiting. But if you use the JPEG library with your
own code, be sure to supply a signal catcher, or else use a different
system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a
compiler bug in old versions of Cray's Standard C (prior to 3.1). If you
still have an old compiler, you'll need to insert a line reading
"#pragma novector" just before the loop
for (i = 1; i <= (int) htbl->bits[l]; i++)
huffsize[p++] = (char) l;
in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
[This bug may or may not still occur with the current IJG code, but it's
probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler,
you should run the compiler in ANSI mode. If using the configure script,
say
./configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add
"-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler
delivered with a minimum HP-UX system, then you must use makefile_unix
(and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior
to A.08.07. If you get complaints about "not a typedef name", you'll have to
use makefile_unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to
provide a Unix-style command line interface. You can use this interface on
the Mac by means of the ecommand() library routine provided by Metrowerks
CodeWarrior or Think C. This is only appropriate for testing the library,
however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want
to develop a Mac-style user interface. There isn't a complete example
available at the moment, but there are some helpful starting points:
1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to
JPEG under System 7 and later. This only illustrates how to use the
compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and
decompression. Unfortunately, it hasn't been updated since IJG v4, and
the library's API has changed considerably since then. Still it may be of
some help, particularly as a guide to compiling the IJG code under Think C.
Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu
or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses
NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific
implementation of jpeg_mem_available(). It also creates temporary files that
follow Mac conventions. (That part of the code relies on System-7-or-later OS
functions. See the comments in jmemmac.c if you need to run it on System 6.)
NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger
than available memory. If you use any memory manager back end other than
jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and
"DisposePtr", because Mac C libraries often have peculiar implementations of
malloc/free. (For instance, free() may not return the freed space to the
Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c
already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND.
You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout.
This means that when using the cjpeg/djpeg programs, you'll have to type the
input and output file names in the "Arguments" text-edit box, rather than
using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would
eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended
float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power
of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h;
it includes all the recommended symbol definitions. If you have AppleScript
installed, you can run the supplied script makeproj.mac to create CodeWarrior
project files for the library and the testbed applications, then build the
library and applications. (Thanks to Dan Sears and Don Agro for this nifty
hack, which saves us from trying to maintain CodeWarrior project files as part
of the IJG distribution...)
Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible.
It needs some assembly-code routines which are in jmemdosa.asm; make sure
your makefile assembles that file and includes it in the library. If you
don't have a suitable assembler, you can get pre-assembled object files for
jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented
distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set
MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your
C library's far-heap malloc() can't allocate blocks that large, reduce
MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you
don't have an assembler to assemble jmemdosa.asm --- you'll have to fall
back to jmemansi.c or jmemname.c. You'll probably still need to set
MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc()
more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c,
you will have to compile in a large-data memory model in order to get the
right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB
work area to hold the comment text. If your C library's malloc can't
handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use
two-file command line style. But if your compiler has either fdopen() or
setmode(), you can use one-file style if you like. To do this, define
USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode.
(USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You
should test that I/O through stdin/stdout produces the same results as I/O
to explicitly named files... the "make test" procedures in the supplied
makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a
32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you
should use one if you have it, as performance will be much better than
8086-compatible code!) For flat-memory-space compilers, do NOT define
NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the
environment supplies adequate virtual memory, otherwise use jmemansi.c or
jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout.
See the last paragraph of the previous section.

MS-DOS, Borland C:
Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character #" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work.

(fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work.

(fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$RFILE : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows
include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__
/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#endif
#ifndef FALSE	/* in case these macros already exist */
define FALSE0/* values of boolean */
#endif
#ifndef TRUE
#define TRUE	1
#endif
#define HAVE_BOOLEAN	/* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far
Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)
The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
```

into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.)

jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:
For a 32-bit DLL you may want something like
#define GLOBAL(type) __declspec(dllexport) type
define EXTERN(type) extern __declspec(dllexport) type
Although not all the GLOBAL routines are actually intended to be called by
the application, the performance cost of making them all DLL entry points is
negligible.

The unmodified IJG library presents a very C-specific application interface,
so the resulting DLL is only usable from C or C++ applications. There has
been some talk of writing wrapper code that would present a simpler interface
usable from other languages, such as Visual Basic. This is on our to-do list
but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment,
but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need
alteration if you want to use it for Windows --- in particular, you should
use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile
jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head
of the block that handles odd image width (about line 268 in v6 jdmerge.c):
/** If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /** ADD THIS */
    cb = GETJSAMPLE(*inptr1);
} Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the
Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading
to a color shift in processed images) was produced if any of the following
optimization switch combinations were used:
-Ot  -Og
-Ot  -Op
-Ot  -Om
So try backing off on optimization if you see such a problem. (Are there
several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" [...] around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in DevStudio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vc setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files. (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project. (If you are using DevStudio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vc test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Microsoft Visual C++ 2010 Developer Studio (v10):

We include makefiles that should work as project files in Visual Studio 2010 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the
library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line

   NMAKE /f makefile.vc setup-v10

   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)

2. Open the solution file jpeg.sln, build the library project.
   (If you are using Visual Studio more recent than 2010 (v10), you'll probably get a message saying that the project files are being updated.)
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line

   NMAKE /f makefile.vc test-build

5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Note:
There seems to be an optimization bug in the compiler which causes the self-test to fail with the color quantization option.
We have disabled optimization for the file jquant2.c in the library project file which causes the self-test to pass properly.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying
   ./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put 
   "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:
On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/transupp.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011-2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 *  * pool-based allocation and freeing of memory;
policy decisions about how to divide available memory among the
virtual arrays;
* control logic for swapping virtual arrays between main memory and
backing storage.
* The separate system-dependent file provides the actual backing-storage
access code, and it contains the policy decision about how much total
main memory to use.
* This file is system-dependent in the sense that some of its functions
are unnecessary in some systems. For example, if there is enough virtual
memory so that backing storage will never be used, much of the virtual
array control logic could be removed. (Of course, if you have that much
memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 1997-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jpegtran.c
*
* Copyright (C) 1995-2013, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options]  inputfile outputfile
 * cjpeg [options]  [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options]  -outfile outputfile  inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * rdbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
* jdmaster.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
* jpeglib.h
* 
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
* 
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* 
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
*
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
* /

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jidctint.c
No license file was found, but licenses were detected in source scan.

/ *
* wrgif.c
* *
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains routines to write output images in GIF format.
* *
******************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.     *
* There is no trace of the LZW algorithm in this file.          *
******************************************************************************
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmtogif from the PBMLPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
0278ff0/wrgif.c
No license file was found, but licenses were detected in source scan.

blerp
The Independent JPEG Group's JPEG software
==============================================

README for release 9a of 19-Jan-2014
==============================================

This distribution contains the ninth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,
and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
(previously known as JPEG, together with ITU-T SG16).
DOCUMENTATION ROADMAP
=========================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information
 can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
-------

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced “jay-peg”) is a standardized compression
method for full-color and gray-scale images.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
===============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you,
its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2014, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
 "The Graphics Interchange Format(c) is the Copyright property of
REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology. If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images,


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/ WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the “JFIF” conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v9a.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsrc9a.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don’t have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijc.org site.

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

FILE FORMAT WARS

================
The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name “JPEG” which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name “OpenJPEG” promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties. We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases. Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.

The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet. People of the planet, on every country, may have a financial interest in
the assets of these former principals, agents, and beneficiaries of the
foreclosed institutions and corporations.

IJG asserts what is: that each man, woman, and child has unalienable value
and rights granted and deposited in them by the Creator and not any one of
the people is subordinate to any artificial principality, corporate fiction
or the special interest of another without their appropriate knowing,
will ing and intentional consent made by contract or accommodation agreement.

IJG expresses that which already was.
The people have already determined and demanded that public administration
entities, national governments, and their supporting judicial systems must
be fully transparent, accountable, and liable.

IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame")
is currently prepared and will be published later.

TO DO

=====*

Version 9 is the second release of a new generation JPEG standard
to overcome the limitations of the original JPEG specification,
and is the first true source reference JPEG codec.

More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
0278ff0/README

No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
Based on code contributed by Mike Lijewski,
with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
* jutils.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jutils.c
No license file was found, but licenses were detected in source scan.

/*
* jdhuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2006-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdhuff.c
No license file was found, but licenses were detected in source scan.

/*
* jcmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jcmainct.c
No license file was found, but licenses were detected in source scan.

IJJ JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downscaled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple
  command-line user interface and I/O routines for several uncompressed image
  formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. The library does not support the
hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines,
and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.
For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatastd.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.
We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:

   input data => processing step A => buffer => processing step B => output data

   |           |           |
   ------------------ controller ------------------

   The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

   A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

   The control modules are objects. A considerable amount of flexibility can
be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
   |-- Preprocessing controller ->|
       |   |-- Downsampling

Main controller --|
       |   |-- Forward DCT, quantize
       |-- Coefficient controller --|
               |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.
* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final
destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
    |-- Main controller --
       |                 |-- Entropy decoding
       |                   |-- Coefficient controller -->
       |                      |-- Dequantize, Inverse DCT
       |                           |-- Upsampling
       |                           |-- Postprocessing controller -->| Colorspace conversion
       |                               |-- Color quantization
       |                               |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this
is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will
always be a single component representing colormap indexes. In the current
design, the output values are JSAMPLEs, so an 8-bit compilation cannot
quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g.,
generating 15-bit color (5 bits/primary) from JPEG's 24-bit output.
Not quite clear yet how this should be handled... should we merge it with
colorspace conversion???

Note that some high-speed operating modes might condense the entire
postprocessing sequence to a single module (upsample, color convert, and
quantize in one step).

In addition to the above objects, the decompression library includes these
objects:

* Master control: determines the number of passes required, controls overall
and per-pass initialization of the other modules. This is subdivided into
input and output control: jdinput.c controls only input-side processing,
while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source
manager supplied with the library knows how to read from a stdio stream
or from a memory buffer; for other behaviors, the surrounding application
may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress
monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the
decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the
coeficient controller's DCT coefficient buffer. Note that this
processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be \( \geq 0 \). This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

\[
\text{GETJSAMPLE(image}[\text{colorcomponent}][\text{row}][\text{col}])
\]

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is
Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to block_size rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment).
We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***
In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU: a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it
would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup. The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoeftct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term - system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small - interface to malloc and free library routines (or their equivalents)

jpeg_get_large, jpeg_free_large - interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small
jpeg_mem_available: estimate available memory

jpeg_open_backing_store: create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a
mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:

1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/structure.txt
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2013, Thomas G. Lane, Guido Vollbeding. This file is part of the Independent JPEG Group's software. For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.
The file example.c provides heavily commented skeleton code for calling the JPEG library. Also see jpeglib.h (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.
OVERVIEW

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)
Outline of typical usage

------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.
The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
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Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.
Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------
Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.
A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
```
jpeg_stdio_dest(&cinfo, outfile);

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- image_width: Width of image, in pixels
- image_height: Height of image, in pixels
- input_components: Number of color channels (samples per pixel)
- in_color_space: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is
cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3;/* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo); /* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary
source image info and other parameters, call jpeg_start_compress() to begin
a compression cycle. This will initialize internal state, allocate working
storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream
will be written. This is appropriate in most cases. If you think you might
want to use an abbreviated datastream, read the section on abbreviated
datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG
parameters or other fields of the JPEG object until you have completed
the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines()
one or more times. You can pass one or more scanlines in each call, up
to the total image height. In most applications it is convenient to pass
just one or a few scanlines at a time. The expected format for the passed
data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec
contains some weasel wording about how top and bottom are application-defined
terms (a curious interpretation of the English language...) but if you want
your files to be compatible with everyone else's, you WILL use top-to-bottom
order. If the source data must be read in bottom-to-top order, you can use
the JPEG library's virtual array mechanism to invert the data efficiently.
Examples of this can be found in the sample application cjpeg.
The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1];/* pointer to a single row */
int row_stride;/* physical row width in buffer */

row_stride = image_width * 3;/* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

```c
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code
optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact,
it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...

cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream
beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling `jpeg_read_header()` and `jpeg_finish_decompress()`. If you wish to read a series of JPEG images from a single source file, you should repeat the `jpeg_read_header()` to `jpeg_finish_decompress()` sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call `jpeg_read_header()` to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case `jpeg_read_header()` may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case,
call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decomposition parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that...
jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.
Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.
ADVANCED FEATURES

Compression parameter selection

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table
entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

```c
jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
```

Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

```c
int jpeg_quality_scaling (int quality)
```

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

```c
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
```

Set default quantization tables with linear q_scale_factor[] values (see below).

```c
jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl, const unsigned int *basic_table, int scale_factor, boolean force_baseline)
```

Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).

CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

```c
jpeg_simple_progression (j_compress_ptr cinfo)
```

Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.
Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_colorspace() if you want to change these.

_J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero
requires decoder with inverse color transform support, introduced
with IJG JPEG 9).
Two values are currently possible: JCTNONE and JCT_SUBTRACT_GREEN.
Set this value for lossless RGB application *before* calling
jpeg_set_colorspace(), because entropy table assignment in
jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If
restart_in_rows is not 0, then restart_interval is set after the
image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG
files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those
cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.
int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you
have to convert from user-defined ratings via jpeg_quality_scaling()
Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

  /* Set luminance quality 90. */
  cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
  /* Set chrominance quality 70. */
  cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: You must also set 1x1 subsampling for efficient separate
color quality selection, since the default value used by library
is 2x2:

  cinfo->comp_info[0].v_samp_factor = 1;
  cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if
no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate
more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image
by setting optimize_coding, as discussed above; there's seldom
any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are
given by the following fields. These are computed from the input image
dimensions and the compression parameters by jpeg_start_compress(). You can
also call jpeg_calc_jpeg_dimensions() to obtain the values that will result
from the current parameter settings. This can be useful if you are trying
to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_widthActual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for
component number i. Note that components here refer to components of the
JPEG color space, *not* the source image color space. A suitably large
comp_info[] array is allocated by jpeg_set_defaults(); if you choose not
to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for
this component. For the standard color spaces, we recommend you
leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must
be 1..4 according to the JPEG standard. Note that larger sampling
factors indicate a higher-resolution component; many people find
this behavior quite unintuitive. The default values are 2,2 for
luminance components and 1,1 for chrominance components, except
for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is
0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are
0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in
release v6, the compressor library will fill this in automatically;
you don't have to.)

Decompression parameter selection
-----------------------------------
Decompression parameter selection is somewhat simpler than compression
parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application.
(Unless you are working with abbreviated files, in which case see
"Abbreviated datastreams", below.) Decompression parameters control
the postprocessing done on the image to deliver it in a format suitable
for the application's use. Many of the parameters control speed/quality
tradeoffs, in which faster decompression may be obtained at the price of
a poorer-quality image. The defaults select the highest quality (slowest)
processing.
The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width	Width and height of image
JDIMENSION image_height	Number of color components
J_COLOR_SPACE jpeg_color_space	Colors of image
boolean saw_JFIF_marker	TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version	Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit	Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker	TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform	Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale.
The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since
fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE
no dithering: fast, very low quality
JDITHER_ORDERED
ordered dither: moderate speed and quality
JDITHER_FS
Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:
J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.
rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
-------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB => YCbCr and CMYK => YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr
GRAYSCALE => RGB
GRAYSCALE => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space
is not one of the ones supported by the interchange standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image 
operator. I am told that Photoshop 3.0 will write uninverted YCCK in 
EPS/JPEG files, and will omit the PS-level inversion. (But the data 
polarity used in bare JPEG files will not change in 3.0.) In either case, 
the JPEG library must not invert the data itself, or else Ghostscript would 
read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG 
routines will cause a message to be printed on stderr, followed by exit(). 
You can supply your own error handling routines to override this behavior 
and to control the treatment of nonfatal warnings and trace/debug messages. 
The file example.c illustrates the most common case, which is to have the 
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through 
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a 
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating 
the importance of the message; you can control the verbosity of the 
program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module 
(jerror.c) with your own code. However, you can avoid code duplication by 
only replacing some of the routines depending on the behavior you need. 
This is accomplished by calling jpeg_std_error() as usual, but then overriding 
some of the method pointers in the jpeg_error_mgr struct, as illustrated by 
example.c.

All of the error handling routines will receive a pointer to the JPEG object 
(a j_common_ptr which points to either a jpeg_compress_struct or a 
jpeg_decompress_struct; if you need to tell which, test the is_decompressor 
field). This struct includes a pointer to the error manager struct in its 
"err" field. Frequently, custom error handler routines will need to access 
additional data which is not known to the JPEG library or the standard error 
handler. The most convenient way to do this is to embed either the JPEG 
object or the jpeg_error_mgr struct in a larger structure that contains 
additional fields; then casting the passed pointer provides access to the 
additional fields. Again, see example.c for one way to do it. (Beginning 
with IJG version 6b, there is also a void pointer "client_data" in each 
JPEG object, which the application can also use to find related data. 
The library does not touch client_data at all.)
The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message
language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so,
calls output_message. The main reason for overriding this method
would be to abort on warnings. msg_level is -1 for warnings,
0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG
library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to
by the field err->jpeg_message_table. The messages are numbered from 0 to
err->last_jpeg_message, and it is these code numbers that are used in the
JPEG library code. You could replace the message texts (for instance, with
messages in French or German) by changing the message table pointer. See
jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are
handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
err->addon_message_table and the message numbers err->first_addon_message and
err->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using
addon messages (the addon messages are defined in cderror.h).
Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
-----------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination
manager" module. The default destination manager just writes the data to a
memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source
manager" to obtain the compressed data; you can provide your own source
manager if you want the data to come from somewhere other than a memory
buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the
destination or source manager provides a work buffer, and the library invokes
the manager only when the buffer is filled or emptied. (You could define a
one-character buffer to force the manager to be invoked for each byte, but
that would be rather inefficient.) The buffer's size and location are
controlled by the manager, not by the library. For example, the memory
source manager just makes the buffer pointer and length point to the original
data in memory. In this case the buffer-reload procedure will be invoked
only if the decompressor ran off the end of the datastream, which would
indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally
"char" or "unsigned char". On a machine where char is not exactly 8 bits
wide, you must define JOCTET as a wider data type and then modify the data
source and destination modules to transcribe the work arrays into 8-bit units
on external storage.

A data destination manager struct contains a pointer and count defining the
next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */
The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

**init_source (j_decompress_ptr cinfo)**
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

**fill_input_buffer (j_decompress_ptr cinfo)**
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

**skip_input_data (j_decompress_ptr cinfo, long num_bytes)**
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

**resync_to_restart (j_decompress_ptr cinfo, int desired)**
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

**term_source (j_decompress_ptr cinfo)**
Terminate source --- called by jpeg_finish_decompress() after all
data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing
as an EOF return. If the end of the file has been reached, the routine has
a choice of exiting via ERREXIT() or inserting fake data into the buffer.
In most cases, generating a warning message and inserting a fake EOI marker
is the best course of action --- this will allow the decompressor to output
however much of the image is there. In pathological cases, the decompressor
may swallow the EOI and again demand data ... just keep feeding it fake EOIs.
jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want
the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method
pointers, and insert a pointer to the struct into the "src" field of the JPEG
decompression object. This can be done in-line in your setup code if you
like, but it's probably cleaner to provide a separate routine similar to the
jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination
managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want
control to return to the outer loop, rather than expecting that the buffer can
be emptied or reloaded within the data source/destination manager subroutine.
The library supports this need by providing an "I/O suspension" mode, which we
describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the
maximum amount of time spent in any one call to the library, so it will not
eliminate response-time problems in single-threaded applications. If you
need guaranteed response time, we suggest you "bite the bullet" and implement
a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application
and the data source or destination manager; you will always need a custom
source/destination manager. (Please read the previous section if you haven't
already.) The basic idea is that the empty_output_buffer() or
fill_input_buffer() routine is a no-op, merely returning FALSE to indicate
that it has done nothing. Upon seeing this, the JPEG library suspends
operation and returns to its caller. The surrounding application is
responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:
* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in
buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the
pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially; they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.
It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file),
set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
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In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

jpeg_create_decompress()
set data source
jpeg_read_header()

set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()

for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what’s needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

- **JPEG_REACHED_SOS**: reached an SOS marker (the start of a new scan)
- **JPEG_REACHED_EOI**: reached the EOI marker (end of image)
- **JPEG_ROW_COMPLETED**: completed reading one MCU row of compressed data
- **JPEG_SCAN_COMPLETED**: completed reading last MCU row of current scan
- **JPEG_SUSPENDED**: suspended before completing any of the above (JPEG_SUSPENDED can occur only if a suspending data source is used.)

This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library’s output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library’s input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it’s best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under “I/O suspension”, above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.
The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
```
jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This
arrangement makes it simple to use higher-quality decoding parameters
for the final pass. But if you don't want to use special parameters for
the final pass, the right loop logic is like this:

for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to
be the last one, so it's not necessary to have reached EOF before starting
the final output pass; rather, what you want to test is whether the output
pass was performed in sync with the final input scan. This form of the loop
will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass,
then find that much or all of the file has arrived before you can complete
the pass. (You can detect this by noting the JPEG_REACHED_EOI return code
from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().)

In this situation you may wish to abort the current display pass and start a
new one using the newly arrived information. To do so, just call
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete
scan arrives during an output pass; this can be detected by noting
JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This
idea should be employed with caution, however, since the display process
might never get to the bottom of the image before being aborted, resulting
in the lower part of the screen being several passes worse than the upper.
In most cases it's probably best to abort an output pass only if the whole
file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using
the current input scan number for the output target scan number; if a
higher-quality final pass is to be done, it should be started (aborting any
incomplete output pass) as soon as the end of file is received. However,
many other strategies are possible. For example, the application can examine
the parameters of the current input scan and decide whether to display it or
not. If the scan contains only chroma data, one might choose not to use it
as the target scan, expecting that the scan will be small and will arrive
quickly. To skip to the next scan, call jpeg_consume_input() until it
returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn’t let you inspect the next scan’s parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn’t fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn’t already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output(). For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very “fuzzy” look instead of the very “blocky” look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation
image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by `cinfo.two_pass_quantize = TRUE` and `cinfo.colormap = NULL`.
   (This is the default setting selected by `jpeg_read_header`, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call `jpeg_start_decompress()`. (If we did not require this, the `max_memory_to_use` setting would be a complete fiction.)

You do this by setting one or more of these three `cinfo` fields to `TRUE`:

- `enable_1pass_quant` Fixed color cube colormap
- `enable_external_quant` Externally-supplied colormap
- `enable_2pass_quant` Two-pass custom colormap

All three are initialized `FALSE` by `jpeg_read_header()`. But `jpeg_start_decompress()` automatically sets `TRUE` the one selected by the current `two_pass_quantize` and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at `jpeg_start_decompress()` time, you can change to any enabled quantization method by setting `two_pass_quantize` and colormap properly just before calling `jpeg_start_output()`. The following special rules apply:

1. You must explicitly set `cinfo.colormap` to `NULL` when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call `jpeg_new_colormap()` after setting `cinfo.colormap`.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.
(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOH return codes as the equivalent of jpeg_read_header's codes.
Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and
decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence...
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot “n”:

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL*/
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n];/* huff_ptr is JHUFF_TBL*/
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)
You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is:

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
--------------

Some applications may need to insert or extract special data in the JPEG
The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```c
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when
using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call jpeg_save_markers(cinfo, marker_code, length_limit) where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)
After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

boolean jpeg_marker Parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you
want to do that. (A better idea is to save these marker types for later
examination by calling jpeg_save_markers(); that method doesn't interfere
with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive
--- if you call one it overrides any previous call to the other, for the
particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c.
Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data

Some applications need to supply already-downsampled image data to the JPEG
compressor, or to receive raw downsampled data from the decompressor. The
library supports this requirement by allowing the application to write or
read raw data, bypassing the normal preprocessing or postprocessing steps.
The interface is different from the standard one and is somewhat harder to
use. If your interest is merely in bypassing color conversion, we recommend
that you use the standard interface and simply set jpeg_color_space =
in_color_space (or jpeg_color_space = out_color_space for decompression).
The mechanism described in this section is necessary only to supply or
receive downsampled image data, in which not all components have the same
dimensions.

To compress raw data, you must supply the data in the colorspace to be used
in the JPEG file (please read the earlier section on Special color spaces)
and downsampled to the sampling factors specified in the JPEG parameters.
You must supply the data in the format used internally by the JPEG library,
namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional
arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one
color component. This structure is necessary since the components are of
different sizes. If the image dimensions are not a multiple of the MCU size,
you must also pad the data correctly (usually, this is done by replicating
the last column and/or row). The data must be padded to a multiple of a DCT
block in each component: that is, each downsampled row must contain a
multiple of block_size valid samples, and there must be a multiple of
block_size sample rows for each component. (For applications such as
conversion of digital TV images, the standard image size is usually a
multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal
compression, except that you call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do
the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data. Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)

* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.

* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*block_size sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*block_size, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
cinfo->comp_info[i].width_in_blocks*block_size samples per row
cinfo->comp_info[i].height_in_blocks*block_size rows in image
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than block_size samples. An example may help here. Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real downsampled data (it is set TRUE by jpeg_read_header()). Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*block_size scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications
include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager’s access_virt_barray method (see Memory management, below, and also read structure.txt’s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component’s comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don’t need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder’s coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block
array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before
jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been
requested from the compression object's memory manager. Thus, when obtaining
the virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(): jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization
tables and sampling factors match the way the data was encoded, or the
resulting file will be invalid. For transcoding from an existing JPEG file,
we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpegSuppress_tables(), or set the tables'
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back
until they are done.

You can define a progress-monitor routine which will be called periodically
by the library. No guarantees are made about how often this call will occur,
so we don't recommend you use it for mouse tracking or anything like that.
At present, a call will occur once per MCU row, scanline, or sample row
group, whichever unit is convenient for the current processing mode; so the
wider the image, the longer the time between calls. During the data
transferring pass, only one call occurs per call of jpeg_read_scanlines or
jpeg_write_scanlines, so don't pass a large number of scanlines at once if
you want fine resolution in the progress count. (If you really need to use
the callback mechanism for time-critical tasks like mouse tracking, you could
insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr,
fill in its progress_monitor field with a pointer to your callback routine,
and set cinfo->progress to point to the struct. The callback will be called
whenever cinfo->progress is non-NULL. (This pointer is set to NULL by
jpeg_create_compress or jpeg_create_decompress; the library will not change
it thereafter. So if you allocate dynamic storage for the progress struct,
make sure it will live as long as the JPEG object does. Allocating from the
JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You
can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in
completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)
--------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that’s been read will probably be more useful than using the library’s value.

Memory management

This section covers some key facts about the JPEG library’s built-in memory manager. For more info, please read structure.txt’s section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don’t want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.

There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library’s minimum space requirements to process an image depend on the image’s width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high.

Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be
somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------
A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12. Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more information about that.)

Run-time selection and conversion of data precision are currently not supported and may be added later. Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values. (If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your
own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.
You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
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The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too.
See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
longs at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will
work fine, although memory may be used inefficiently if char is much larger
than 8 bits or short is much bigger than 16 bits. The code should work
equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the
code work by modifying the typedefs in jmorecfg.h. However, you will probably
have difficulty if int is less than 16 bits wide, since references to plain
int abound in the code.

char can be either signed or unsigned, although the code runs faster if an
unsigned char type is available. If char is wider than 8 bits, you will need
to redefine JOCTET and/or provide custom data source/destination managers so
that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.
But some of the image file I/O modules in cjpeg/djpeg do have ASCII
dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C
stdio is used only by the data source/destination modules and the error
handler, all of which are application-replaceable. (cjpeg/djpeg are more
heavily dependent on stdio.) malloc and free are called only from the memory
manager "back end" module, so you can use a different memory allocator by
replacing that one file.

The code generally assumes that C names must be unique in the first 15
characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt,
jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
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The IJG code is designed to work efficiently in 80x86 "small" or "medium"
memory models (i.e., data pointers are 16 bits unless explicitly declared
"far"; code pointers can be either size). You may be able to use small
model to compile cjpeg or djpeg by itself, but you will probably have to use
medium model for any larger application. This won't make much difference in
performance. You *will* take a noticeable performance hit if you use a
large-data memory model (perhaps 10%-25%), and you should avoid "huge" model
if at all possible.
The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

/*
 * jcmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

/* Found in path(s):
 * /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/libjpeg.txt
No license file was found, but licenses were detected in source scan. */
No license file was found, but licenses were detected in source scan.

/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 *
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifdef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

* This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

* While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

* The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jdct.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and inverse DCT modules. These declarations are private to the DCT managers (j dctmgr.c, j dctmgr. c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdct.h
No license file was found, but licenses were detected in source scan.

/*
* rdswitch.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
*/

Found in path(s):
*/opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
0278ff0/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* jmemmac.c provides an Apple Macintosh implementation of the system-
* dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
*
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
* that more space is left over by reducing max_memory_to_use.
*
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
If you want to use jmemmac.c in an application that might be used with System 6 or earlier, then you should remove dependencies on FindFolder and the FSSpec calls. You will need to replace FindFolder with some other mechanism for finding a place to put temporary files, and you should replace the FSSpec calls with their HFS equivalents:

- FSpDelete -> HDelete
- FSpGetFInfo -> HGetFInfo
- FSpCreate -> HCreate
- FSpOpenDF -> HOpen *** Note: not HOpenDF ***
- FSMakeFSSpec -> (fill in spec by hand.)

(Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen, which is on all HFS macs. HOpenDF is a System 7 addition which avoids the ages-old problem of names starting with a period.)

Contributed by Sam Bushell (jsam@iagu.on.net) and Dan Gildor (gyld@in-touch.com).

*/

Found in path(s):
*/opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jmemmac.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
*/opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*
* jdmerge.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains code for merged upsampling/color conversion.
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
calculating all the output pixels corresponding to a pair of chroma samples at one time. In the conversion equations
\[ R = Y + K1 \times Cr \]
\[ G = Y + K2 \times Cb + K3 \times Cr \]
\[ B = Y + K4 \times Cb \]
* only the Y term varies among the group of pixels corresponding to a pair of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the multiplications needed for color conversion.

This file currently provides implementations for the following cases:
YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are the only common cases. (For uncommon cases we fall back on the more general code in jdsample.c and jdcolor.c.)

/*
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
* jcdctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient quantization.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
* ckconfig.c
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/cconfig.c
No license file was found, but licenses were detected in source scan.

/*
* jcprepct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
* jdatadst.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETS into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains library routines for transcoding compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapi.min.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2002-2008 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdsample.c
No license file was found, but licenses were detected in source scan.
/*
 * jdmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2012 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2009-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 *
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
0278ff0/jdmarker.c
No license file was found, but licenses were detected in source scan.

/*@  
* jconfig.txt
*  
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*  
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
*  
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
*  
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*@  
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
*/

/*@  
* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES
/* Does your compiler support the declaration "unsigned char"?
 * How about "unsigned short"?
 */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 */
#define void char

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
 */
#define const

/* Define this if an ordinary "char" type is unsigned.
 * If you're not sure, leaving it undefined will work at some cost in speed.
 * If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
 */
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
 */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
 */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
 * but does have a BSD-style <strings.h>.
 */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
 * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
 * <sys/types.h> instead.
 */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
 * unless you are using a large-data memory model or 80386 flat-memory mode.
 * On less brain-damaged CPUs this symbol must not be defined.
 * (Defining this symbol causes large data structures to be referenced through
 * "far" pointers and to be allocated with a special version of malloc.)
 */
#undef NEED_FAR_POINTERS
/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems.
*/
#ifdef _WIN32
#ifdef __RPCNDR_H__*/ don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE		/* in case these macros already exist */
#define FALSE	0		/* values of boolean */
#endif
#ifndef TRUE
#define TRUE	1
#endif
#define HAVE_BOOLEAN		/* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */
/*
* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/

#ifndef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED	/* BMP image file format */
#define GIF_SUPPORTED	/* GIF image file format */
#define PPM_SUPPORTED	/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED	/* Utah RLE image file format */
#define TARGA_SUPPORTED	/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
0278ff0/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
* /

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jerror.h
No license file was found, but licenses were detected in source scan.

/ *
* jaricom.c
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* 
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
* /

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jaricom.c
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/ *
* jdapistd.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * transupp.h
 *
 * Copyright (C) 1997-2013, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */
Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/transupp.h

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/*
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2011-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jccolor.c

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/*
 * jversion.h
 *
 * Copyright (C) 1991-2014, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jversion.h

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/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
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 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
case.

Most of the routines intended to be called directly by an application
are in this file or in jcapistd.c. But also see jeparam.c for
parameter-setup helper routines, jcomapi.c for routines shared by
compression and decompression, and jctrans.c for the transcoding case.

*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
0278ff0/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
* jmemname.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
0278ff0/jmemname.c
No license file was found, but licenses were detected in source scan.

/*
* djpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you’d
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/djpeg.c
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/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
**between upsample/color conversion and color quantization/reduction.**

* If no color quantization/reduction is required, then this module has no
  work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
  entirely.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a very simple stand-alone application that displays
  the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
  JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-
  0278ff0/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

**IJG JPEG LIBRARY: CODING RULES**

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Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards” revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see
Block comments should be laid out thusly:

/*
*  Block comments in this style.
*/

We indent statements in K&R style, e.g.,
if (test) {
   then-part;
} else {
   else-part;
}

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool ‘ansi2knr.c’ (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
   code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the `sizeof()` operator is defined to return int, yet `size_t` is defined as long. Needless to say, this is brain-damaged. Always use the `SIZEOF()` macro in place of `sizeof()`, so that the result is guaranteed to be of type `size_t`.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ",c" or ",h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some
applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/coderules.txt

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/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
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 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/rdppm.c
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/*
 * jcparam.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jcparam.c

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/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
* /opt/cola/permits/1105853619_1607111336.34/0/kodabb-libjpeg-v9a-0-g0278ff0-tar-gz/kodabb-libjpeg-0278ff0/jmemnobs.c

1.586 wildfly-elytron-x500-principal
1.11.2.Final
1.586.1 Available under license:

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 */

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1091710526_1600571751.25/0/wildfly-elytron-x500-principal-1-11-2-final-sources-jar/org/wildfly/security/x500/principal/X500SubjectEvidenceDecoder.java
* /opt/ws_local/PERMITS_SQL/1091710526_1600571751.25/0/wildfly-elytron-x500-principal-1-11-2-final-sources-jar/org/wildfly/security/x500/principal/X509SubjectAltNameEvidenceDecoder.java

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 * limitations under the License.
 */

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1091710526_1600571751.25/0/wildfly-elytron-x500-principal-1-11-2-final-
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* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/ExpressionResolverImpl.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/operations/validation/PropertyValidator.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/persistence/AbstractFilePersistenceResource.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/registry/AliasStepHandler.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/registry/AliasEntry.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/ProxyOperationAddressTranslator.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/VaultReader.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/operations/common/ProcessEnvironmentSystemPropertyUpdater.java
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  jar/org/jboss/as/controller/transform/DiscardUndefinedAttributesTransformer.java
 * /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-
  jar/org/jboss/as/controller/transform/TransformersLogger.java
 * /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-
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* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-
  jar/org/jboss/as/controller/services/path/PathInfoHandler.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-
  jar/org/jboss/as/controller/operations/global/EnhancedSyntaxSupport.java

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* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/audit/PeriodicRotatingFileAuditLogHandler.java

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jar/org/jboss/as/controller/operations/global/ReadConfigAsFeaturesOperationHandler.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-
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* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/ServiceVerificationHelper.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/capability/registry/CapabilityRegistration.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/transform/description/ChainedTransformationDescriptionBuilder.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/transform/description/ChainedPlaceholderResolver.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/operations/validation/URIValidator.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/extension/MutableRootResourceRegistrationProvider.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/notification/NotificationSupports.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/capability/AbstractCapability.java
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* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-jar/org/jboss/as/controller/transform/description/ChainedTransformationDescriptionBuilderImpl.java
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jar/org/jboss/as/controller/remote/AbstractModelControllerOperationHandlerFactoryService.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1-
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* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1.jar/org/jboss/as/controller/ObjectTypeAttributeDefinition.java
* /opt/cola/permits/1110674908_1654022994.4005573/0/wildfly-controller-6-0-2-final-sources-1.jar/org/jboss/as/controller/operations/validation/ObjectTypeValidator.java
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  jar/com/sun/jersey/multipart/BodyPartEntity.java
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/* lib/font/fontfile/gunzip.c
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signature of Ty Coon, 1 April 1989
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
</PRE>

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<OL TYPE="a">
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a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the program's name and a brief idea of what it does.>

Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.610 snake-yaml 1.24

1.610.1 Available under license:

No license file was found, but licenses were detected in source scan.

```xml
<name>Apache License, Version 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
```

Found in path(s):

* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/META-INF/maven/org.yaml/snakeyaml/pom.xml

No license file was found, but licenses were detected in source scan.

```plaintext
// This module is multi-licensed and may be used under the terms
// EPL, Eclipse Public License, V1.0 or later, http://www.eclipse.org/legal
// LGPL, GNU Lesser General Public License, V2.1 or later, http://www.gnu.org/licenses/lgpl.html
// GPL, GNU General Public License, V2 or later, http://www.gnu.org/licenses/gpl.html
// AL, Apache License, V2.0 or later, http://www.apache.org/licenses
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/**
 * A Base64 encoder/decoder.
 * *
 * This class is used to encode and decode data in Base64 format as described in
 * RFC 1521.
 * *
 * source-code.biz/base64coder/java</a>
 * Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland
 * Multi-licensed: EPL / LGPL / GPL / AL / BSD.
 */
```

Found in path(s):

* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/external/biz/base64Coder/Base64Coder.java

No license file was found, but licenses were detected in source scan.

```plaintext
/**
 * Copyright (c) 2008, http://www.snakeyaml.org
 * *
 * Licensed under the Apache License, Version 2.0 (the "License");
 ```
No license file was found, but licenses were detected in source scan.

/* Copyright (c) 2008 Google Inc.
 * Licensed under the Apache License, Version 2.0 (the "License");
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* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java
* /opt/cola/permits/1150997427_1654022970.1301146/0/snakeyaml-1-24-sources-7-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java

1.611 txframework 5.9.0.Final
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* /opt/cola/permits/1110675579_1654022975.8160322/0/txframework-5-9-0-final-sources-1-jar/org/jboss/narayana/txframework/api/exception/TXControlRuntimeException.java
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* /opt/cola/permits/1110675579_1654022975.8160322/0/txframework-5-9-0-final-sources-1-
  jar/org/jboss/narayana/txframework/api/annotation/lifecycle/ba/Close.java
* /opt/cola/permits/1110675579_1654022975.8160322/0/txframework-5-9-0-final-sources-1-
  jar/org/jboss/narayana/txframework/api/annotation/lifecycle/ba/Cancel.java
* /opt/cola/permits/1110675579_1654022975.8160322/0/txframework-5-9-0-final-sources-1-
  jar/org/jboss/narayana/txframework/api/annotation/lifecycle/ba/CompletionType.java
* /opt/cola/permits/1110675579_1654022975.8160322/0/txframework-5-9-0-final-sources-1-
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* /opt/cola/permits/1110675579_1654022975.8160322/0/txframework-5-9-0-final-sources-1-
  jar/org/jboss/narayana/txframework/api/configuration/transaction/CompletionType.java
* /opt/cola/permits/1110675579_1654022975.8160322/0/txframework-5-9-0-final-sources-1-
  jar/org/jboss/narayana/txframework/api/configuration/transaction/CompletionType.java
* /opt/cola/permits/1110675579_1654022975.8160322/0/txframework-5-9-0-final-sources-1-
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* /opt/cola/permits/1110675579_1654022975.8160322/0/txframework-5-9-0-final-sources-1-
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1.612 aesh-terminal-api 1.10

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   /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/terminal/Connection.java
   /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/terminal/BaseDevice.java
   /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/terminal/tty/TtyOutputMode.java
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* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/terminal/EventDecoder.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/utils/Curses.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/terminal/tty/Size.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/terminal/tty/Signal.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/terminal/Attributes.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/utils/ExecHelper.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/terminal/Terminal.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/utils/OSUtils.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/utils/ANSI.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/io/Encoder.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/utils/InfoCmp.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/terminal/tty/Point.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/terminal/tty/Capability.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/io/Decoder.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/utils/Config.java
* /opt/cola/permits/1003069715_1646171684.11/0/aesh-terminal-api-1-10-sources-jar/org/aesh/utils/InfoCmpHelper.java

1.613 infinispan-commons 9.3.1.Final
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1.614 jboss-as-build-config 7.2.0.Final

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1.620 python-pika 1.1.0

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  jar/org/xnio/nio/NioSetter.java
* /opt/cola/permits/1002302878_1654023069.9318614/0/xnio-nio-3-0-7-ga-sources-
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* /opt/cola/permits/1002302878_1654023069.9318614/0/xnio-nio-3-0-7-ga-sources-jar/org/xnio/nio/Log.java
* /opt/cola/permits/1002302878_1654023069.9318614/0/xnio-nio-3-0-7-ga-sources-jar/org/xnio/nio/WorkerThread.java

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic
## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao
## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## Bind internal references
# LDflags that pkgdata will use

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BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.629 mpdecimal 2.4.2
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* /opt/cola/permits/1110676824_1654023044.882019/0/wildfly-microprofile-health-smallrye-14-0-1-final-sources-1-jar/org/wildfly/extension/microprofile/health/MicroProfileHealthParser_1_0.java

1.631 lucene 5.5.5
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* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/ide/VAJExport.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/Sequential.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/ExitException.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/pvcs/Pvcs.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/vss/MSVSSLABEL.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/jsp/compilers/DefaultJspCompilerAdapter.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/sitraka/bytecode/Utils.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/bzip2/CBZip2OutputStream.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/jsp/compilers/JspCompilerAdapterFactory.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/jsp/compilers/JspCompilerAdapter.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/jsp/compilers/JasperC.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/metamata/MParse.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/PathConvert.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/jsp/compilers/JasperC.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/metamata/MParse.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/sitraka/CovReport.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/PathConvert.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/compilers/CompilerAdapter.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/condition/Socket.java
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* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/ExecuteJava.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/Chmod.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/vss/MSVSS.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/script/ScriptDefBase.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/script/LogOutputStream.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/ant/types/CommandlineJava.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/ant/types/DataType.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/ant-util/SourceFileScanner.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/ant/types/CommandlineJava.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/ant/types/DataType.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/ant-util/SourceFileScanner.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/ant/util/optional/WeakishReference12.java
jar/main/org/apache/tools/ant/taskdefs/SQLExec.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/CallTarget.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/ExecTask.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/dotnet/ImportTypelib.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/NetRexxC.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/BuildException.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/util/LazyHashtable.java
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jar/main/org/apache/tools/ant/taskdefs/optional/depend/constantpool/InterfaceMethodRefCPInfo.java
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* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/junit/JUnitTest.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/clearcase/CCUnCheckout.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/net/FTP.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/depend/JarFileIterator.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/Perforce/P4OutputHandler.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/Perforce/P4OutputHandler.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/types/selectors/DifferentSelector.java
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package org.apache.tools.ant.util;

/**
 * Interface for classes that want to be notified by Watchdog.
 *
 * @since Ant 1.5
 *
 * @see org.apache.tools.ant.util.Watchdog
 *
 * @author Stefan Bodewig
 */

public interface TimeoutObserver {

 /**
 * Called when the watchdow times out.
 *
 * @param w the watchdog that timed out.
 */

 void timeoutOccured(Watchdog w);
}

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*/
package org.apache.tools.ant.util;

import java.io.File;

/**
 * Maps dotted package name matches to a directory name.
 * This is the inverse of the package mapper.
 * This is useful for matching XML formatter results against their JUnit test
 * cases.
 * <pre>
 * &lt;mapper classname="org.apache.tools.ant.util.UnPackageNameMapper"
 * from="${test.data.dir}/TEST-*Test.xml" to="*Test.java"&gt;
 * &lt;/pre&gt;
 * @author Brad Clark
 * */

public class UnPackageNameMapper extends GlobPatternMapper {
    /**
     * Returns the part of the given string that matches the * in the
     * &quot;from&quot; pattern replacing dots with file separators
     * @param name Source filename
     * @return Replaced variable part
     */
    protected String extractVariablePart(String name) {
        String var = name.substring(prefixLength,
                                    name.length() - postfixLength);
        return var.replace('.', File.separatorChar);
    }
}

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jar/main/org/apache/tools/ant/taskdefs/optional/image/Image.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/cvslib/RedirectingOutputStream.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/extension/ExtensionSet.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/types/optional/image/TransformOperation.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/input/InputHandler.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/types/optional/image/DrawOperation.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/cvslib/RedirectingStreamHandler.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/cvslib/CVSEntry.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/j2ee/WebLogicHotDeploymentTool.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/j2ee/GenericHotDeploymentTool.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/extension/Compatatability.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/extension/Compatatability.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/extension/Compatatability.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/extension/Compatatability.java
jar/main/org/apache/tools/ant/taskdefs/optional/extension/ExtraAttribute.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/cvslib/CvsTagEntry.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/types/optional/image/Rectangle.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/types/optional/image/BasicShape.java
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jar/main/org/apache/tools/ant/taskdefs/optional/j2ee/JonasHotDeploymentTool.java
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jar/main/org/apache/tools/ant/taskdefs/optional/jsp/JspMangler.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/input/InputRequest.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/filters/BaseFilterReader.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/util/facade/ImplementationSpecificArgument.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/types/optional/image/Text.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/util/depend/AbstractAnalyzer.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/util/KeepAliveOutputStream.java
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package org.apache.tools.ant.taskdefs.condition;

import java.io.IOException;
import org.apache.tools.ant.BuildException;
import org.apache.tools.ant.Project;
import org.apache.tools.ant.ProjectComponent;

/**
 * Condition to wait for a TCP/IP socket to have a listener. Its attributes are:
 *   server - the name of the server.
 *   port - the port number of the socket.
 *
 * @author <a href="mailto:denis@network365.com">Denis Hennessy</a>
 * @since Ant 1.5
 */
public class Socket extends ProjectComponent implements Condition {
    private String server = null;

    /**
     * Condition to wait for a TCP/IP socket to have a listener. Its attributes are:
     *   server - the name of the server.
     *   port - the port number of the socket.
     *
     * @author <a href="mailto:denis@network365.com">Denis Hennessy</a>
     * @since Ant 1.5
     */
    public class Socket extends ProjectComponent implements Condition {
        private String server = null;

    }
private int port = 0;

/**
 * Set the server attribute
 * @param server the server name
 */
public void setServer(String server) {
    this.server = server;
}

/**
 * Set the port attribute
 * @param port the port number of the socket
 */
public void setPort(int port) {
    this.port = port;
}

/**
 * @return true if a socket can be created
 * @exception BuildException if the attributes are not set
 */
public boolean eval() throws BuildException {
    if (server == null) {
        throw new BuildException("No server specified in socket "+ "condition");
    }
    if (port == 0) {
        throw new BuildException("No port specified in socket condition");
    }
    log("Checking for listener at " + server + ":" + port,
        Project.MSG_VERBOSE);
    try {
        new java.net.Socket(server, port);
    } catch (IOException e) {
        return false;
    }
    return true;
}

Found in path(s):
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/condition/Socket.java.orig
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package org.apache.tools.ant.taskdefs.optional.javacc;

import java.io.File;
import java.io.IOException;
import java.util.Enumeration;
import java.util.Hashtable;
import org.apache.tools.ant.BuildException;
import org.apache.tools.ant.Project;
import org.apache.tools.ant.Task;
import org.apache.tools.ant.taskdefs.Execute;
import org.apache.tools.ant.taskdefs.LogStreamHandler;
import org.apache.tools.ant.types.Commandline;
import org.apache.tools.ant.types.CommandlineJava;
import org.apache.tools.ant.types.Path;
import org.apache.tools.ant.util.JavaEnvUtils;

/**
 * Runs the JJDoc compiler compiler.
 *
 * @author Jene Jasper <a href="mailto:jjasper@abz.nl">jjasper@abz.nl</a>
 * @author thomas.haas@softwired-inc.com
 * @author Michael Saunders
 *       <a href="mailto:michael@amtec.com">michael@amtec.com</a>
 */
public class JJDoc extends Task {

    // keys to optional attributes
    private static final String OUTPUT_FILE = "OUTPUT_FILE";
    private static final String TEXT = "TEXT";
    private static final String ONE_TABLE = "ONE_TABLE";

    private final Hashtable optionalAttrs = new Hashtable();

    private String outputFile = null;
    private boolean plainText = false;

    private static final String DEFAULT_SUFFIX_HTML = ".html";
    private static final String DEFAULT_SUFFIX_TEXT = ".txt";

    // required attributes

private File target = null;
private File javaccHome = null;

private CommandlineJava cmdl = new CommandlineJava();

/**
 * Sets the TEXT BNF documentation option.
 */
public void setText(boolean plainText) {
    optionalAttrs.put(TEXT, new Boolean(plainText));
    this.plainText = plainText;
}

/**
 * Sets the ONE_TABLE documentation option.
 */
public void setOnetable(boolean oneTable) {
    optionalAttrs.put(ONE_TABLE, new Boolean(oneTable));
}

/**
 * The outputfile to write the generated BNF documentation file to.
 * If not set, the file is written with the same name as
 * the JavaCC grammar file with a suffix .html or .txt.
 */
public void setOutputfile(String outputFile) {
    this.outputFile = outputFile;
}

/**
 * The javacc grammar file to process.
 */
public void setTarget(File target) {
    this.target = target;
}

/**
 * The directory containing the JavaCC distribution.
 */
public void setJavacchome(File javaccHome) {
    this.javaccHome = javaccHome;
}

public JJDoc() {
    cmdl.setVm(JavaEnvUtils.getJreExecutable("java"));
}
public void execute() throws BuildException {

    // load command line with optional attributes
    Enumeration iter = optionalAttrs.keys();
    while (iter.hasMoreElements()) {
        String name = (String) iter.nextElement();
        Object value = optionalAttrs.get(name);
        cmdl.createArgument()
            .setValue("-" + name + ":" + value.toString());
    }

    if (target == null || !target.isFile()) {
        throw new BuildException("Invalid target: " + target);
    }

    if (outputFile != null) {
        cmdl.createArgument() .setValue("-" + OUTPUT_FILE + ":" + outputFile.replace('\', '/'));
    }

    // use the directory containing the target as the output directory
    File javaFile = new File(createOutputFileName(target, outputFile, plainText));
    if (javaFile.exists() && target.lastModified() < javaFile.lastModified()) {
        log("Target is already built - skipping (" + target + ")",
            Project.MSG_VERBOSE);
        return;
    }

    cmdl.createArgument().setValue(target.getAbsolutePath());
    cmdl.setClassname(JavaCC.getMainClass(javaccHome,
        JavaCC.TASKDEF_TYPE_JJDOC));

    final Path classpath = cmdl.createClasspath(getProject());
    final File javaccJar = JavaCC.getArchiveFile(javaccHome);
    classpath.createPathElement().setPath(javaccJar.getAbsolutePath());
    classpath.addJavaRuntime();

    final Commandline.Argument arg = cmdl.createVmArgument();
    arg.setValue("-mx140M");
    arg.setValue("-Dinstall.root=" + javaccHome.getAbsolutePath());

    final Execute process =
        new Execute(new LogStreamHandler(this,
            Project.MSG_INFO,
try {
    if (process.execute() != 0) {
        throw new BuildException("JJDoc failed.");
    }
} catch (IOException e) {
    throw new BuildException("Failed to launch JJDoc", e);
}

private String createOutputFileName(File target, String optionalOutputFile,
    boolean plainText) {
    String suffix = DEFAULT_SUFFIX_HTML;
    String javaccFile = target.getAbsolutePath().replace(\\, '/');

    if (plainText) {
        suffix = DEFAULT_SUFFIX_TEXT;
    }

    if ((optionalOutputFile == null) || optionalOutputFile.equals("") ) {
        int filePos = javaccFile.lastIndexOf('/');

        if (filePos >= 0) {
            javaccFile = javaccFile.substring(filePos + 1);
        }

        int suffixPos = javaccFile.lastIndexOf('.');

        if (suffixPos == -1) {
            optionalOutputFile = javaccFile + suffix;
        } else {
            String currentSuffix = javaccFile.substring(suffixPos);

            if (currentSuffix.equals(suffix)) {
                optionalOutputFile = javaccFile + suffix;
            } else {
                optionalOutputFile = javaccFile.substring(0, suffixPos) + suffix;
            }
        }
    } else {
        optionalOutputFile = optionalOutputFile.replace(\\, '/');
    }
}
return (getProject().getBaseDir() + "/" + optionalOutputFile)
          .replace(\\, '/');
}
}

Found in path(s):
* /opt/cola/permits/1001477273_164617663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/javacc/JJDoc.java.bak
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* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/sitraka/StringUtil.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/zip/ZipExtraField.java
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* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Edit.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Submit.java
jar/main/org/apache/tools/ant/taskdefs/optional/perforce/SimpleP4OutputHandler.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Change.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Have.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Base.java
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package org.apache.tools.ant.taskdefs.optional.net;

import org.apache.commons.net.bsd.RExecClient;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.util.Calendar;
import java.util.Enumeration;
import java.util.Vector;
import org.apache.tools.ant.BuildException;
import org.apache.tools.ant.Project;
import org.apache.tools.ant.Task;

/**
 * Automates the rexec protocol.
 */

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import java.util.Calendar;
import java.util.Enumeration;
import java.util.Vector;
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import org.apache.commons.net.bsd.RExecClient;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.util.Calendar;
import java.util.Enumeration;
import java.util.Vector;
import org.apache.tools.ant.BuildException;
import org.apache.tools.ant.Project;
import org.apache.tools.ant.Task;
public class RExecTask extends Task {
    /**
     * The userid to login with, if automated login is used
     */
    private String userid = null;

    /**
     * The password to login with, if automated login is used
     */
    private String password = null;

    /**
     * The command to execute
     */
    private String command = null;

    /**
     * The server to connect to.
     */
    private String server = null;

    /**
     * The tcp port to connect to.
     */
    private int port = RExecClient.DEFAULT_PORT;

    /**
     * The Object which handles the rexec session.
     */
    private AntRExecClient rexec = null;

    /**
     * The list of read/write commands for this session
     */
    private Vector rexecTasks = new Vector();

    /**
     * If true, adds a CR to beginning of login script
     */
    private boolean addCarriageReturn = false;

    /**
     * Default time allowed for waiting for a valid response
     * for all child reads. A value of 0 means no limit.
     */
private Integer defaultTimeout = null;

/**
 * This class is the parent of the Read and Write tasks.
 * It handles the common attributes for both.
 */
public class RExecSubTask {
    protected String taskString = "";
    public void execute(AntRExecClient rexec)
    throws BuildException {
        throw new BuildException("Shouldn't be able instantiate a SubTask directly");
    }

    /**
     * the message as nested text
     */
    public void addText(String s) {
        taskString += getProject().replaceProperties(s);
    }

    /**
     * the message as an attribute
     */
    public void setString(String s) {
        taskString += s;
    }
}

/**
 * Sends text to the connected server
 */
public class RExecWrite extends RExecSubTask {
    private boolean echoString = true;
    public void execute(AntRExecClient rexec)
    throws BuildException {
        rexec.sendString(taskString, echoString);
    }

    /**
     * Whether or not the message should be echoed to the log.
     * Defaults to <code>true</code>.
     */
    public void setEcho(boolean b) {
        echoString = b;
    }
}
* Reads the output from the connected server
* until the required string is found or we time out.
*/

public class RExecRead extends RExecSubTask {
    private Integer timeout = null;
    public void execute(AntRExecClient rexec)
        throws BuildException {
        rexec.waitForString(taskString, timeout);
    }
    /**
     * a timeout value that overrides any task wide timeout.
     */
    public void setTimeout(Integer i) {
        this.timeout = i;
    }
    
    /**
     * Sets the default timeout if none has been set already
     * @ant.attribute ignore="true"
     */
    public void setDefaultTimeout(Integer defaultTimeout) {
        if (timeout == null) {
            timeout = defaultTimeout;
        }
    }
}

/**
 * This class handles the abstraction of the rexec protocol.
 * Currently it is a wrapper around <a
 * href="http://jakarta.apache.org/commons/net/index.html">Jakarta
 * Commons Net</a>.
 */

public class AntRExecClient extends RExecClient {
    /**
     * Read from the rexec session until the string we are
     * waiting for is found
     * @param s The string to wait on
     */
    public void waitForString(String s) {
        waitForString(s, null);
    }
    
    /**
     * Read from the rexec session until the string we are
     * waiting for is found or the timeout has been reached
     * @param s The string to wait on
     * @param timeout The maximum number of seconds to wait
     */
    public void waitForString(String s, long timeout) {
        waitForString(s, timeout);
    }
}
public void waitForString(String s, Integer timeout) {
    InputStream is = this.getInputStream();
    try {
        StringBuffer sb = new StringBuffer();
        if (timeout == null || timeout.intValue() == 0) {
            while (sb.toString().indexOf(s) == -1) {
                sb.append((char) is.read());
            }
        } else {
            Calendar endTime = Calendar.getInstance();
            endTime.add(Calendar.SECOND, timeout.intValue());
            while (sb.toString().indexOf(s) == -1) {
                while (Calendar.getInstance().before(endTime) && is.available() == 0) {
                    Thread.sleep(250);
                }
                if (is.available() == 0) {
                    throw new BuildException("Response timed-out waiting for \"" + s + \"\", getLocation());
                }
                sb.append((char) is.read());
            }
            log(sb.toString(), Project.MSG_INFO);
        }
    } catch (BuildException be) {
        throw be;
    } catch (Exception e) {
        throw new BuildException(e, getLocation());
    }
}

/**
 * Write this string to the rexec session.
 * @param echoString  Logs string sent
 */
public void sendString(String s, boolean echoString) {
    OutputStream os = this.getOutputStream();
    try {
        os.write((s + "\n").getBytes());
        if (echoString) {
            log(s, Project.MSG_INFO);
        }
        os.flush();
    } catch (Exception e) {
        throw new BuildException(e, getLocation());
    }
}
/**
 * Read from the rexec session until the EOF is found or
 * the timeout has been reached
 * @param timeout The maximum number of seconds to wait
 */

public void waitForEOF(Integer timeout) {
    InputStream is = this.getInputStream();
    try {
        StringBuffer sb = new StringBuffer();
        if (timeout == null || timeout.intValue() == 0) {
            int read;
            while ((read = is.read()) != -1) {
                char c = (char) read;
                sb.append(c);
                if (c == '
') {
                    log(sb.toString(), Project.MSG_INFO);
                    sb.delete(0, sb.length());
                }
            }
        } else {
            Calendar endTime = Calendar.getInstance();
            endTime.add(Calendar.SECOND, timeout.intValue());
            int read = 0;
            while (read != -1) {
                while (Calendar.getInstance().before(endTime) && is.available() == 0) {
                    Thread.sleep(250);
                }
                if (is.available() == 0) {
                    log(sb.toString(), Project.MSG_INFO);
                    throw new BuildException(
                        "Response timed-out waiting for EOF",
                        getLocation());
                }
                read = is.read();
                if (read != -1) {
                    char c = (char) read;
                    sb.append(c);
                    if (c == 'a') {
                        log(sb.toString(), Project.MSG_INFO);
                        sb.delete(0, sb.length());
                    }
                }
            }
        }
        if (sb.length() > 0) {
            log(sb.toString(), Project.MSG_INFO);
        }
    }
}
} catch (BuildException be) {
    throw be;
} catch (Exception e) {
    throw new BuildException(e, getLocation());
}

/**
 *  A string to wait for from the server.
 *  A subTask &lt;read&gt; tag was found. Create the object,
 *  Save it in our list, and return it.
 */
public RExecSubTask createRead() {
    RExecSubTask task = (RExecSubTask) new RExecRead();
    rexecTasks.addElement(task);
    return task;
}
/**
 *  Add text to send to the server
 *  A subTask &lt;write&gt; tag was found. Create the object,
 *  Save it in our list, and return it.
 */
public RExecSubTask createWrite() {
    RExecSubTask task = (RExecSubTask) new RExecWrite();
    rexecTasks.addElement(task);
    return task;
}
/**
 *  Verify that all parameters are included.
 *  Connect and possibly login
 *  Iterate through the list of Reads and writes
 */
public void execute() throws BuildException {
    /** A server name is required to continue */
    if (server == null) {
        throw new BuildException("No Server Specified");
    }
    /** A userid and password must appear together
     *  if they appear. They are not required.
     */
    if (userid == null &amp;&amp; password != null) {
        throw new BuildException("No Userid Specified");
    }
    if (password == null &amp;&amp; userid != null) {
        throw new BuildException("No Password Specified");
    }
/** Create the telnet client object */
reexec = new AntRExecClient();
try {
    reexec.connect(server, port);
} catch (IOException e) {
    throw new BuildException("Can't connect to " + server);
}
/** Login if userid and password were specified */
if (userid != null && password != null) {
    login();
}
/** Process each sub command */
Enumeration tasksToRun = rexecTasks.elements();
while (tasksToRun != null && tasksToRun.hasMoreElements()) {
    REExecSubTask task = (REExecSubTask) tasksToRun.nextElement();
    if (task instanceof REExecRead && defaultTimeout != null) {
        ((REExecRead) task).setDefaultTimeout(defaultTimeout);
    }
    task.execute(reexec);
}
/** Keep reading input stream until end of it or time-out */
reexec.waitForEOF(defaultTimeout);
}
/**
* Process a 'typical' login. If it differs, use the read
* and write tasks explicitely
*/
private void login() {
    if (addCarriageReturn) {
        reexec.sendString("\n", true);
    }
    reexec.waitForString("login: ");
    reexec.sendString(userid, true);
    reexec.waitForString("assword: ");
    reexec.sendString(password, false);
}
/**
* Set the the comand to execute on the server;
*/
public void setCommand(String c) { this.command = c; }
/**
* send a carriage return after connecting; optional, defaults to false.
*/
public void setInitialCR(boolean b) {
    this.addCarriageReturn = b;
}
/**
 * Set the the login password to use
 * required if <tt>userid</tt> is set.
 */
public void setPassword(String p) { this.password = p; }
/**
 * Set the tcp port to connect to; default is 23.
 */
public void setPort(int p) { this.port = p; }
/**
 * Set the hostname or address of the remote server.
 */
public void setServer(String m) { this.server = m; }
/**
 * set a default timeout in seconds to wait for a response,
 * zero means forever (the default)
 */
public void setTimeout(Integer i) {
    this.defaultTimeout = i;
}
/**
 * Set the the login id to use on the server;
 * required if <tt>password</tt> is set.
 */
public void setUserid(String u) { this.userid = u; }

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* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
jar/main/org/apache/tools/ant/taskdefs/condition/Condition.java
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/**
* A class to help send SMTP email.
* This class is an improvement on the sun.net.smtp.SmtpClient class
* found in the JDK. This version has extra functionality, and can be used
* with JVMs that did not extend from the JDK. It's not as robust as
* the JavaMail Standard Extension classes, but it's easier to use and
* easier to install, and has an Open Source license.
*<p>
* It can be used like this:
*<blockquote><pre>
* String mailhost = "localhost"; // or another mail host
* String from = "Mail Message Servlet &lt;MailMessage@server.com&gt;";
* String to = "to@you.com";
* String cc1 = "cc1@you.com";
* String cc2 = "cc2@you.com";
* String bcc = "bcc@you.com";
* </pre></blockquote>
*/
MailMessage msg = new MailMessage(mailhost);
msg.setPort(25);
msg.from(from);
msg.to(to);
msg.cc(cc1);
msg.cc(cc2);
msg.bcc(bcc);
msg.setSubject("Test subject");
PrintStream out = msg.getPrintStream();
&emsp;&nbsp;
Enumeration enum = req.getParameterNames();
&emsp;&nbsp;
while (enum.hasMoreElements()) {
&emsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs...
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* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/zip/ZipLong.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/ide/VAJBuildInfo.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/sitraka/bytecode/MethodInfo.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/compilers/Javac13.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/types/optional/depend/DependScanner.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/sitraka/Triggers.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/util/StringUtils.java
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* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/mic/RmicAdapterFactory.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/junit/Xalan2Executor.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/ide/VAJUtil.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/mic/KaffeRmic.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional/ccm/CCMCheckinDefault.java
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  jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Integrate.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Labelsync.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Fstat.java
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  jar/main/org/apache/tools/ant/taskdefs/GUnzip.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/sound/SoundTask.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/sound/AntSoundPlayer.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/ejb/WLRun.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/ejb/EJBDeploymentTool.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/junit/BaseTest.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/junit/BatchTest.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/depend/constantpool/Utf8CPInfo.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/depend/constantpool/NameAndTypeCPInfo.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/regexp/RegexpMatcher.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/junit/EJBDeploymentTool.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/util/regexp/RegexpMatcher.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
  jar/main/org/apache/tools/ant/taskdefs/optional/junit/BatchTest.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
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* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/util/UnPackageNameMapper.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/MagicNames.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/types/ResourceFactory.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/types/selectors/modifiedSelector/Algorithm.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/tasks/optional/sitraka/CovBase.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/util/KeepAliveInputStream.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/util/LazyFileOutputStream.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/types/PropertySet.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/tasks/Antlib.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/tasks/Redirector.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/tasks/optional/clearcase/CCUnlock.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/tasks/optional/clearcase/CCMkBl.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/tasks/optional/vss/MSVSSConstants.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/filters/TokenFilter.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/tasks/optional/clearcase/CCMkBl.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/tasks/optional/vss/MSVSSConstants.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/tasks/SubAnt.java
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- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/vss/MSVSSCP.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/unix/AbstractAccessTask.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/condition/FilesMatch.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/types/image/Scale.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/extension/resolvers/AntResolver.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/types/selectors/SelectorUtils.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/email/EmailAddress.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/types/selectors/DependSelector.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/types/selectors/BaseSelectorContainer.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/types/selectors/BaseSelector.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/sos/SOSCmd.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/condition/IsReference.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/cvslib/ChangeLogTask.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/unix/Chgrp.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/extension/ExtensionUtil.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/cvslib/RCSFile.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/extension/ExtensionUtil.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/unix/Chgrp.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/extension/ExtensionUtil.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/unix/Chgrp.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/extension/ExtensionUtil.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/unix/Chgrp.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/extension/ExtensionUtil.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/unix/Chgrp.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/extension/ExtensionUtil.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/unix/Chgrp.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/extension/ExtensionUtil.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/unix/Chgrp.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/extension/ExtensionUtil.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/unix/Chgrp.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/extension/ExtensionUtil.java
- /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/taskdefs/optional/unix/Ch
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* compares the current Java version to the passed in String - assumes the argument is one of the constants defined in this
* class.
* @return true if the version of Java is the same as the given
* version.
* @since Ant 1.5
*/

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* jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Counter.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
* jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Add.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
* jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Reopen.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
* jar/main/org/apache/tools/ant/taskdefs/optional/perforce/P4Revert.java

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@since Ant 1.6
@since Ant 1.6
@author <a href="mailto:martijn@kruithof.xs4all.nl">Martijn Kruithof</a>

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package org.apache.tools.ant.taskdefs.optional.ejb;

import java.io.File;
import java.util.Hashtable;
import org.apache.tools.ant.Project;

/**
 * The deployment tool to add the jboss specific deployment descriptor to the ejb jar file.
 * Jboss only requires one additional file jboss.xml and does not require any additional
 * compilation.
 *
 * @author <a href="mailto:p.austin@talk21.com">Paul Austin</a>
 * @version 1.0
 * @see EjbJar#createJboss
 */
public class JbossDeploymentTool extends GenericDeploymentTool {
    protected static final String JBOSS_DD = "jboss.xml";
    protected static final String JBOSS_CMPD = "jaws.xml";

    /** Instance variable that stores the suffix for the jboss jarfile. */
    private String jarSuffix = ".jar";

    /**
     * Setter used to store the suffix for the generated JBoss jar file.
     * @param inString the string to use as the suffix.
     */
    public void setSuffix(String inString) {
        jarSuffix = inString;
    }

    /** Add any vendor specific files which should be included in the
     * EJB Jar.
     */
}
protected void addVendorFiles(Hashtable ejbFiles, String ddPrefix) {
    File jbossDD = new File(getConfig().descriptorDir, ddPrefix + JBOSS_DD);
    if (jbossDD.exists()) {
        ejbFiles.put(META_DIR + JBOSS_DD, jbossDD);
    } else {
        log("Unable to locate jboss deployment descriptor. It was expected to be in " + jbossDD.getPath(),
        Project.MSG_WARN);
        return;
    }

    File jbossCMPD = new File(getConfig().descriptorDir, ddPrefix + JBOSS_CMPD);
    if (jbossCMPD.exists()) {
        ejbFiles.put(META_DIR + JBOSS_CMPD, jbossCMPD);
    }
}

/**
 * Get the vendor specific name of the Jar that will be output. The modification date
 * of this jar will be checked against the dependent bean classes.
 */
File getVendorOutputJarFile(String baseName) {
    return new File(getDestDir(), baseName + jarSuffix);
}

Found in path(s):
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-
 jar/main/org/apache/tools/ant/taskdefs/optional/ejb/JbossDeploymentTool.java.orig
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* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/Deltree.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/tar/TarUtils.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/optional.ejb/Ejbc.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/BuildEvent.java
* /opt/cola/permits/1001477273_1646171663.43/0/ant-1-6-sources-jar/main/org/apache/tools/ant/taskdefs/Copyfile.java

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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1.jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/package-info.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/serialization/package-info.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/compression/DecompressionException.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/string/package-info.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/CodecException.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java

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 */
/*
* Written by Robert Harder and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
  jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
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 */
/**
 * A decoder that splits the received {@code ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 *{@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * <p>
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <p>
 * <h3>2 bytes length field at offset 0, strip header</h3>
 * <p>
 * Because we can get the length of the content by calling
 * {@link ByteBuf#readableBytes()}, you might want to strip the length
 * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
 * specified <tt>2</tt>, that is same with the length of the length field, to
 * strip the first two bytes.
 */
2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero lengthAdjustment. Because the length value in this example message is always greater than the body length by 2, we specify lengthAdjustment=-2 for compensation.

lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = -2
initialBytesToStrip = 0

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
| Length | Actual Content | Length | Actual Content |
| 0x000E | "HELLO, WORLD" | 0x000E | "HELLO, WORLD" |

3 bytes length field at the end of 5 bytes header, do not strip header

The following message is a simple variation of the first example. An extra header value is prepended to the message. lengthAdjustment is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

lengthFieldOffset = 2
lengthFieldLength = 3
lengthAdjustment = 0
initialBytesToStrip = 0

BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
| Header 1 | Length | Actual Content | Header 1 | Length | Actual Content |
| 0xCAFE | 0x00000C | "HELLO, WORLD" | 0xCAFE | 0x00000C | "HELLO, WORLD" |

3 bytes length field at the beginning of 5 bytes header, do not strip header

This is an advanced example that shows the case where there is an extra
header between the length field and the message body. You have to specify a
positive \texttt{lengthAdjustment} so that the decoder counts the extra
header into the frame length calculation.

\begin{verbatim}
\* \texttt{lengthFieldOffset} = 0
\* \texttt{lengthFieldLength} = 3
\* \texttt{lengthAdjustment} = 2 (= the length of Header 1)
\* \texttt{initialBytesToStrip} = 0
\* 
\* BEFORE DECODE (17 bytes)               AFTER DECODE (17 bytes)
\* +----------+----------+----------------+      +----------+----------+----------------+
\* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
\* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
\* +----------+----------+----------------+      +----------+----------+----------------+
\* </verbatim}

\* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the \texttt{lengthFieldOffset} and the extra
* header affects the \texttt{lengthAdjustment}. We also specified a non-zero
* \texttt{initialBytesToStrip} to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify \texttt{0} for \texttt{initialBytesToSkip}.

\begin{verbatim}
\* \texttt{lengthFieldOffset} = 1 (= the length of HDR1)
\* \texttt{lengthFieldLength} = 2
\* \texttt{lengthAdjustment} = 1 (= the length of HDR2)
\* \texttt{initialBytesToStrip} = 3 (= the length of HDR1 + LEN)
\*
\* BEFORE DECODE (16 bytes)               AFTER DECODE (13 bytes)
\* +----------+----------+----------+----------+      +----------+----------------+
\* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
\* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
\* +----------+----------+----------+----------+      +----------+----------------+
\* </verbatim}

\* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into \texttt{lengthAdjustment}.
* Please note that we don't need to take the length of HDR2 into account
because the length field already includes the whole header length.

because the length field already includes the whole header length.

* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>

* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
  +------------+--------+------------+-------------------+      +------------+-------------------+
  | HDR1 | Length | HDR2 | Actual Content |
  | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |
  +------------+--------+------------+-------------------+      +------------+-------------------+

* @see LengthFieldPrepender

*/

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  jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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  jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
  jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/DateFormatter.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-jar/io/netty/handler/codec/string/LineSeparator.java

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 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * 
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  jar/io/netty/handler/codec/ValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068271428_1594339474.09/0/netty-codec-4-1-45-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeadersImpl.java

1.634 hawtjni-runtime 1.15
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* /opt/cola/permits/1257496743_1654022829.8915339/0/hawtjni-runtime-1-15-sources-
  jar/org/fusesource/hawtjni/runtime/ClassFlag.java
* /opt/cola/permits/1257496743_1654022829.8915339/0/hawtjni-runtime-1-15-sources-
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* /opt/cola/permits/1257496743_1654022829.8915339/0/hawtjni-runtime-1-15-sources-
  jar/org/fusesource/hawtjni/runtime/ClassFlag.java
* /opt/cola/permits/1257496743_1654022829.8915339/0/hawtjni-runtime-1-15-sources-
  jar/org/fusesource/hawtjni/runtime/ArgFlag.java
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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  jar/org/jboss/ws/common/reflection/AnnotatedFieldFinder.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/integration/WSConstants.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/reflection/AnnotationAware.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/invocation/AbstractInvocationHandlerJSE.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/reflection/AccessibleObjectProcessor.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/injection/finders/ResourceFieldFinder.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/invocation/InvocationHandlerJAXRPC.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/security/DefaultSecurityAdapterFactory.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/reflection/AccessibleObjectProcessorAdapter.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/injection/InjectionHelper.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/injection/resolvers/AbstractReferenceResolver.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/Normalizer.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/injection/finders/AbstractPostConstructPreDestroyAnnotatedMethodFinder.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
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* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/invocation/InvocationHandlerJAXWS.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/reflection/MethodFinder.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
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* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/reflection/AbstractClassProcessor.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/deployment/JAXBIntroDeploymentAspect.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/injection/finders/ReflectionUtils.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/injection/finders/PreDestroyMethodFinder.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/injection/InjectionException.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/reflection/ClassProcessor.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/invocation/AbstractInvocationHandler.java
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* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/reflection/ReflectionException.java

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  jar/org/jboss/ws/common/io/NullOutputStream.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/io/TeeOutputStream.java
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 */
/**
 * Encodes and decodes to and from Base64 notation.
 *
 * Change Log:
 */
<ul>
<li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
   some convenience methods for reading and writing to and from files.</li>
<li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
   with other encodings (like EBCDIC).</li>
<li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the
   encoded data was a single byte.</li>
<li>v2.0 - I got rid of methods that used booleans to set options.
   Now everything is more consolidated and cleaner. The code now detects
   when data that's being decoded is gzip-compressed and will decompress it
   automatically. Generally things are cleaner. You'll probably have to
   change some method calls that you were making to support the new
   options format (<tt>int</tt>s that you "OR" together).</li>
<li>v1.5.1 - Fixed bug when decompressing and decoding to a
   byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.</li>
<li>Added the ability to "suspend" encoding in the Output Stream so
   you can turn on and off the encoding if you need to embed base64
   data in an otherwise "normal" stream (like an XML file).</li>
<li>v1.5 - Output stream passes on flush() command but doesn't do anything itself.
   This helps when using GZIP streams.</li>
<li>Added the ability to GZip-compress objects before encoding them.</li>
</ul>
<ul>
<li>v1.4 - Added helper methods to read/write files.</li>
<li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
<li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
where last buffer being read, if not completely full, was not returned.</li>
<li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
<li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
</ul>

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* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/monitoring/ThreadLocalAwareWebServiceContext.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/utils/XMLPredefinedEntityReferenceResolver.java

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* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1.jar/jboss/ws/common/monitoring/DefaultEndpointMetricsFactory.java
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* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/configuration/LogicalConfigDelegateHandler.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/configuration/LogicalConfigDelegateHandler.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/configuration/ConfigDelegateHandlerComparison.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/configuration/ConfigDelegateHandler.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/configuration/ConfigDelegateHandler.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/configuration/ConfigDelegateHandler.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/configuration/ConfigDelegateHandler.java
* /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-
  jar/org/jboss/ws/common/configuration/ConfigDelegateHandler.java
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*/

Found in path(s):
- /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/utils/DelegateClassLoader.java
- /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/configuration/BasicConfigResolver.java
- /opt/cola/permits/1110675494_1654022896.1793404/0/jbossws-common-3-2-1-final-sources-1-jar/org/jboss/ws/common/configuration/AbstractCommonConfigResolver.java

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1.647 perl-pathtools 3.40-5.el7

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/*

***********************************************************************
ppport.h -- Perl/Pollution/Portability Version 3.20

Automatically created by Devel::PPPort running under perl 5.015005.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

***********************************************************************

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.20

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help       show short help
--version    show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

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--compat-version=version  provide compatibility with Perl version
--cplusplus                 accept C++ comments
--quiet                     don't output anything except fatal errors
--nodiag                    don't show diagnostics
--nohints                   don't show hints
--nochanges                 don't suggest changes
--nofilter                  don't filter input files
--strip                     strip all script and doc functionality from
                          ppport.h
--list-provided             list provided API
--list-unsupported          list unsupported API
--api-info=name             show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version 5.003. You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.
Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.
You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.
If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4
=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 } 

my $VERSION = 3.20;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);

my($ppport) = $0 =~ /\([\w.]+)\$/;  
my $LF = '(?:\r\n|\[\r\n\])';  # line feed
my $HS = '\[ \t\]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/\.*';
my $cce = '*/.\>';  
my $rcce = quotemeta $ccs;
my $rccs = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
}

if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION.
";
    exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: \"$opt{'compat-version'}\"\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: \"$opt{'compat-version'}\"\n" if $v >= 1000 || $s >= 1000;
  $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)|([^|]*)|([^|]*)|([^\n]+)$/ ? ( $1 => {
    ($2 ? ( base => $2 ) : ()),
    ($3 ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
  } ) : die "invalid spec: $_" } qw(
  AvFILLp|5.004050||p
  AvFILL||
  BhkDISABLE|5.014000|
  BhkENABLE|5.014000|
  BhkENTRY_set|5.014000|
  BhkENTRY||
  BhkFLAGS||
  CALL_BLOCK_HOOKS||
  CLASS||
  CPERLscope|5.005000||p
  CX_CURPAD_SAVE||
  CX_CURPAD_SV||
  CopFILEAV|5.006000||p
  CopFILEGV_set|5.006000||p
  CopFILEGV|5.006000||p
  CopFILESV|5.006000||p
  CopFILE_set|5.006000||p
  CopFILE|5.006000||p
  CopSTASHPV_set|5.006000||p
  CopSTASHPV|5.006000||p
  CopSTASH_eq|5.006000||p
  CopSTASH_set|5.006000||p
  CopSTASH|5.006000||p
)
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.014000||p
POP_MULTICALL|5.014000|
POPi||n
POPl||n
POPn||n
POPpbytex|5.007001||n
POPpx|5.005030||n
POP||n
POPs||n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2nat|5.009003||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK||
PUSH_MULTICALL|5.014000|
PUSHi||
PUSHmortal|5.009002||p
PUSHn||
PUSHp||
PUSHs||
PUSHu|5.004000||p
PUTBACK||
PerlIO_clearerr|5.007003|
PerlIO_close|5.007003|
PerlIO_context_layers|5.009004|
PerlIO_eof|5.007003|
PerlIO_error|5.007003|
PerlIO_fileno|5.007003|
PerlIO_fill|5.007003|
PerlIO_flush|5.007003|
PerlIO_get_base|5.007003|
PerlIO_get bufsize|5.007003|
PerlIO_get cnt|5.007003|
PerlIO_get ptr|5.007003|
PerlIO_read|5.007003|
PerlIO_seek|5.007003|
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);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";

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$hint = [S1, [split /\s+/, S2]]
if m{^
$rcce WARNING:
$rcce (.*)
} { undef $hint }
}

$define = [S1, S2] if m{
^
define\s+\([^()]*\)\s+(.*)}
if ($define) {
if ($define->[1] =~ /\$/) {
   $define->[1] .= $_;
} else {
   if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\$/) {
      my @n = find_api($define->[1]);
      push @$depends{$define->[0]}, @n if @n
   }
   undef $define;
}
}

$function = [S1, _] if m{^
DPPP\($my_(\w+)\)
}:
if ($function) {
if (/\$/) {
   if (exists $API{$function->[0]})) {
      my @n = find_api($function->[1]);
      push @$depends{$function->[0]}, @n if @n
   }
   undef $function;
} else {
   $function->[1] .= $_;
}
}

$replace     = $1 if m{^
rcce Replace:\s+(.*)
}:

my @d = (map { s/\s+//g; $_ } split /,/, $1);
for $d in @d
   push @$depends{$d}, @deps;
if (m{^
rcce depends\s+on\s+(.*)
})
   my @deps = map { s/\s+//g; S_ } split /, $3;
   my $d;
   for $d in @deps
      push @$depends{$d}, @deps;
$need{$_} = 1 if m{/\^if\s+defined\((NEED_{\w+}(?!GLOBAL))?\)/};
}

for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^Q\$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
            print "Depends on: \, join('\, ', @$depends{$f}), ",\n" if exists $depends{$f};
            print "\n\nHints: \n\n" if exists $hints{$f};
            print "\n\nWarnings: \n\n" if exists $warnings{$f};
            $info++;
        }
        print "\nNo portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'.\n";
    print "\n";
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
            print "Depends on: \, join('\, ', @$depends{$f}), ",\n" if exists $depends{$f};
            print "\n\nHints: \n\n" if exists $hints{$f};
            print "\n\nWarnings: \n\n" if exists $warnings{$f};
            $info++;
        }
        print "\nNo portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'list-provided'}'.\n";
    print "\n";
    exit 0;
}
push @flags, 'hint' if exists $hints{$f};
push @flags, 'warning' if exists $warnings{$f};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}

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if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):

| @out); 
    } 
    @files = @in;
    } 

    die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!

    next;

    }

    info("Scanning $filename ...");

    my $c = do { local $/; <IN> }
    close IN;

    my %file = (orig => $c, changes => 0);
    # Temporarily remove C/XS comments and strings from the code
    my @cocom;

    $c =~ s{
        ( ^\$H*\$H*include\b[^\r\n]+\b(?:\$Q\$ppport|\$XSUBV\h)b[^\r\n]*)
    | ^\$H*\$H*(:define|^elif|^if(?:def)?\b[^\r\n]*)
    | ( ^\$H*[^\r\n]*)
    | [^\r\n]*(?:\[^[^\W]*\]^)+
    | [^\W]*(?:\[^[^\W]*\]^)+
    | \(/(?::|$[^\r\n]*if\{[^\r\n]*\}\}|^[^\r\n]*\))/
    }{ defined $2 and push @cocom, $2;
    defined $1 ? $1 : "$c$s$\$c$cce" }mgsex;

    $file{cocom} = @cocom;
    $file{code} = $c;
    $file{has_inc_ppport} = $c =~ /^\$H*\$H*include[^\r\n]+\b\$Q\$ppport\E|\b/m;

    my $func;

    for $func (keys %API) {
        my $match = $func;
        $match .= "$revreplace{$func}" if exists $revreplace{$func};
    }
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};

Open Source Used In Data Center Network Manager 11.5(1) 6271


my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}
for $func (sort keys %{$file{uses_provided}}) {
if ($file{uses}{$func}) {
if (exists $file{uses_deps}{$func}) {

Open Source Used In Data Center Network Manager 11.5(1) 6272


diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
}
else {
    diag("Uses $func");
}
$warnings += hint($func);

unless ($opt{quiet}) {
    for $func (sort keys @{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}), ", even with '$ppport'u";
        $warnings++;
    }
}

for $func (sort keys @{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys @{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}
$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "",

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"} {$func}) {
            if ($type eq 'global') {
                diag("Files @ \{ $global{needs}{$func} \} need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = "",
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^\($HS*?\$HS*define\$HS*NEED_\w+\)/$1$pp/ms)
            || ($c =~ s/^\($HS*?\$HS*include\$HS*\Q$ppport\E\)/$pp/m)
            || ($c =~ s/^\($HS*?\$HS*include\$HS*XSUB,\s*?)\$/1$pp/m)
            || ($c =~ s/^/$pp/);
    }
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^\($HS*?\$HS*include\$HS*\Q$ppport\E\.*)\$/SLF//m)
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ''; my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                }
            } elsif (exists $opt{changes}) {
                if (exists $opt{copy}) {
                    my $newfile = "$filename$opt{copy}";
                    if (-e $newfile) {
                        error("'$newfile' already exists, refusing to write copy of '$filename'");
                    } else {
                        local *F;
                        if (open F, ">$newfile") {
                            info("Writing copy of '$filename' with changes to '$newfile'");
                            print F $c;
                            close F;
                        } else {
                            error("Cannot open '$newfile' for writing: $!");
                        }
                    }
                }
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
            }
        } else {
            error("Cannot open '$opt{changes}' for writing: $!");
        }
    }
}
$opt{changes} = 1;
goto fallback;
}
}
mydiff($^PATCH, $filename, $c);
}
else {

fallback:
  info("Suggested changes: ");
  mydiff($^STDOUT, $filename, $c);
}
}
else {
  my $s = $file{changes} == 1 ? '' : 's';
  info("$file{changes} potentially required change$s detected");
}
}
else {
  info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq " "}

sub mydiff
{
  local *F = shift;
  my($file, $str) = @_;
  my $diff;

  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }

  if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
  }

  if (!defined $diff) {
$diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp'; 
    my $suf = 'aaa'; 
    my $diff = ""; 
    local *F;

    while (-e "$tmp.$suf") { $suf++ } 
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= ";
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
    } else {
        error("Cannot open '$tmp' for writing: $!.");
    }

    return undef;
}
sub rec_depend
{
  my($func, $seen) = @_; 
  return () unless exists $depends{$func};
  $seen = {%{$seen||{}||}};
  return () if $seen->{func}++;
  my %s;
  grep !+$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
  my $ver = shift;

  if ($ver =~ /^\d+\.\d+\.\d+$/) {
    return ($1, $2, $3);
  }
  elsif ($ver !~ /^\d+\[\d_\]+\$/) {
    die "cannot parse version '$ver\n":
  }

  $ver =~ s/_/\//g;
  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /\d+\d{3}\d{3}/;

  $v = int $v;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "cannot parse version '$ver\n":
    }
  }

  return ($r, $v, $s);
}

sub format_version
{
  my $ver = shift;

  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /\d+.\d{3}\d{3}/;

  $v = int $v;
  $s = int $s;
if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '" . $ver . "'
    }
    $s /= 10;

    $ver = sprintf "%.03d", $r, $v;
    $s > 0 and $ver .= sprintf "_%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** \n",
}

sub error
{
    print "*** ERROR: \n",
}

my %given_hints;
my %given_warnings;
sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++) {
        my $warn = $warnings{$func};
print <<END;

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality, please try to regenerate this file using:

\$^X \$0 --unstrip

END

my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{ / (?::[^*]*[*+]?[^\ro
]*[^\] ]*[^\] ]*\] ) /[^*]* }{ defined $2 ? ' ' : ($1 || '') }gsex;$c =~ s!\s+!!mg;$c =~ s!\r\n!!mg;$c =~ s!#\s*!#!mg;$c =~ s!s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!";
print OUT "$pl$c";
exit 0;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40/ppport.h
No license file was found, but licenses were detected in source scan.
=back

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.
So the exit codes are...

0                   all tests successful
255                 test died
any other number    how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 NOTES

Test::More is B<explicitly> tested all the way back to perl 5.004.

=head1 BUGS and CAVEATS

=over 4

=item Threads

Test::More will only be aware of threads if "use threads" has been done
I<before> Test::More is loaded. This is ok:

    use threads;
    use Test::More;

This may cause problems:

    use Test::More
    use threads;

=item Making your own ok()

If you are trying to extend Test::More, don't. Use Test::Builder
instead.

=item The eq_* family has some caveats.

=item Test::Harness upgrade

no_plan and todo depend on new Test::Harness features and fixes. If
you're going to distribute tests that use no_plan or todo your
end-users will have to upgrade Test::Harness to the latest one on
CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness
will work fine.

Installing Test::More should also upgrade Test::Harness.
HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test::Class> is like XUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Unit> is XUnit style testing.

L<Test::Inline> shows the idea of embedded testing.

L<Bundle::Test> installs a whole bunch of useful test modules.

AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie
Slaymaker, Tony Bowden, blackstar.co.uk, chromatic and the perl-qa gang.

=head1 COPYRIGHT


This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

See <http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
* /opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/t/lib/Test/More.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Test::Tutorial - A tutorial about writing really basic tests

=head1 DESCRIPTION

I<ahhhhhhhhh!!!! NOT TESTING! Anything but testing!
Beat me, whip me, send me to Detroit, but don't make me write tests!>

I<*sob*>.

I<Besides, I don't know how to write the damned things.>

Is this you? Is writing tests right up there with writing documentation and having your fingernails pulled out? Did you open up a test and read

#### We start with some black magic

and decide that's quite enough for you?

It's ok. That's all gone now. We've done all the black magic for you. And here are the tricks...

=head2 Nuts and bolts of testing.

---
Here's the most basic test program.

```perl
#!/usr/bin/perl -w

print "1..1\n";

print 1 + 1 == 2 ? "ok 1\n" : "not ok 1\n";
```

since 1 + 1 is 2, it prints:

```
1..1
ok 1
```

What this says is: C<1..1> "I'm going to run one test." [1] C<ok 1>
"The first test passed". And that's about all magic there is to
testing. Your basic unit of testing is the I<ok>. For each thing you
test, an C<ok> is printed. Simple. B<Test::Harness> interprets your test
results to determine if you succeeded or failed (more on that later).

Writing all these print statements rapidly gets tedious. Fortunately,
there's B<Test::Simple>. It has one function, C<ok()>.

```perl
#!/usr/bin/perl -w

use Test::Simple tests => 1;

ok( 1 + 1 == 2 );
```

and that does the same thing as the code above. C<ok()> is the backbone
of Perl testing, and we'll be using it instead of roll-your-own from
here on. If C<ok()> gets a true value, the test passes. False, it
fails.

```perl
#!/usr/bin/perl -w

use Test::Simple tests => 2;

ok( 1 + 1 == 2 );
ok( 2 + 2 == 5 );
```

from that comes

```
1..2
ok 1
not ok 2
#   Failed test (test.pl at line 5)
# Looks like you failed 1 tests of 2.
```
"I'm going to run two tests." This number is used to ensure your test program ran all the way through and didn't die or skip some tests. "The first test passed." "The second test failed". Test::Simple helpfully prints out some extra commentary about your tests.

It's not scary. Come, hold my hand. We're going to give an example of testing a module. For our example, we'll be testing a date library, Date::ICal. It's on CPAN, so download a copy and follow along. [2]

=head2 Where to start?

This is the hardest part of testing, where do you start? People often get overwhelmed at the apparent enormity of the task of testing a whole module. Best place to start is at the beginning. Date::ICal is an object-oriented module, and that means you start by making an object. So we test C<new()>.

#!/usr/bin/perl -w

use Test::Simple tests => 2;

use Date::ICal;

my $ical = Date::ICal->new;         # create an object
ok( defined $ical );                # check that we got something
ok( $ical->isa('Date::ICal') );     # and it's the right class

run that and you should get:

1..2
ok 1
ok 2

congratulations, you've written your first useful test.

=head2 Names

That output isn't terribly descriptive, is it? When you have two tests you can figure out which one is #2, but what if you have 102?

Each test can be given a little descriptive name as the second argument to C<ok()>.

use Test::Simple tests => 2;
ok( defined $ical, 'new() returned something');
ok( $ical->isa('Date::ICal'), " and it's the right class");

So now you'd see...

1..2
ok 1 - new() returned something
ok 2 - and it's the right class

=head2 Test the manual

Simplest way to build up a decent testing suite is to just test what
the manual says it does. [3] Let's pull something out of the
L<Date::ICal/SYNOPSIS> and test that all its bits work.

#!/usr/bin/perl -w
use Test::Simple tests => 8;
use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
    hour => 16, min => 12, sec => 47,
    tz => '0530' );

ok( defined $ical, 'new() returned something');
ok( $ical->isa('Date::ICal'), " and it's the right class");
ok( $ical->sec  == 47, ' sec()' );
ok( $ical->min  == 12, ' min()' );
ok( $ical->hour == 16, ' hour()' );
ok( $ical->day  == 17, ' day()' );
ok( $ical->month== 10, ' month()' );
ok( $ical->year == 1964, ' year()' );

run that and you get:

1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 3 - sec()
ok 4 - min()
ok 5 - hour()
not ok 6 - day()
# Failed test (- at line 16)
ok 7 - month()
ok 8 - year()
Looks like you failed 1 tests of 8.

Whoops, a failure! Test::Simple helpfully lets us know on what line the failure occurred, but not much else. We were supposed to get 17, but we didn't. What did we get?? Dunno. We'll have to re-run the test in the debugger or throw in some print statements to find out.

Instead, we'll switch from B<Test::Simple> to B<Test::More>. B<Test::More> does everything B<Test::Simple> does, and more! In fact, Test::More does things I<exactly> the way Test::Simple does. You can literally swap Test::Simple out and put Test::More in its place. That's just what we're going to do.

Test::More does more than Test::Simple. The most important difference at this point is it provides more informative ways to say "ok". Although you can write almost any test with a generic C<ok()> function, it can't tell you what went wrong. Instead, we'll use the C<is()> function, which lets us declare that something is supposed to be the same as something else:

```perl
#!/usr/bin/perl -w
use Test::More tests => 8;
use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
        hour => 16, min => 12, sec => 47,
        tz => '0530' );

ok( defined $ical,            'new() returned something' );
ok( $ical->isa('Date::ICal'), " and it's the right class" );
is( $ical->sec,     47,       '  sec()'   );
is( $ical->min,     12,       '  min()'   );
is( $ical->hour,    16,       '  hour()'  );
is( $ical->day,     17,       '  day()'   );
is( $ical->month,   10,       '  month()' );
is( $ical->year,    1964,     '  year()'  );

"Is C<$ical-E<gt>sec> 47?"  "Is C<$ical-E<gt>min> 12?"  With C<is()> in place,
you get some more information

1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 3 - sec()
ok 4 - min()
ok 5 - hour()
```
letting us know that \texttt{C<$ical-E<gt>day>} returned 16, but we expected 17. A quick check shows that the code is working fine, we made a mistake when writing up the tests. Just change it to:

\begin{verbatim}
  is( $ical->day, 16, 'day()' );
\end{verbatim}

and everything works.

So any time you're doing a "this equals that" sort of test, use \texttt{C<is()>.} It even works on arrays. The test is always in scalar context, so you can test how many elements are in a list this way. [5]

\begin{verbatim}
  is( @foo, 5, 'foo has 5 elements' );
\end{verbatim}

=head2 Sometimes the tests are wrong

Which brings us to a very important lesson. Code has bugs. Tests are code. Ergo, tests have bugs. A failing test could mean a bug in the code, but don't discount the possibility that the test is wrong.

On the flip side, don't be tempted to prematurely declare a test incorrect just because you're having trouble finding the bug. Invalidating a test isn't something to be taken lightly, and don't use it as a cop out to avoid work.

=head2 Testing lots of values

We're going to be wanting to test a lot of dates here, trying to trick the code with lots of different edge cases. Does it work before 1970? After 2038? Before 1904? Do years after 10,000 give it trouble? Does it get leap years right? We could keep repeating the code above, or we could set up a little try/expect loop.

\begin{verbatim}
use Test::More tests => 32;
use Date::ICal;

my %ICal_Dates = (     # An ICal string And the year, month, date
  # An ICal string And the year, month, date
\end{verbatim}
while( my($ical_str, $expect) = each %ICal_Dates ) {
    my $ical = Date::ICal->new( ical => $ical_str );
    ok( defined $ical,            "new(ical => '$ical_str')" );
    ok( $ical->isa('Date::ICal'), "  and it's the right class" );
    is( $ical->year,    $expect->[0],     '  year()'  );
    is( $ical->month,   $expect->[1],     '  month()' );
    is( $ical->day,     $expect->[2],     '  day()'   );
    is( $ical->hour,    $expect->[3],     '  hour()'  );
    is( $ical->min,     $expect->[4],     '  min()'   );
    is( $ical->sec,     $expect->[5],     '  sec()'   );
}

So now we can test bunches of dates by just adding them to %ICal_Dates. Now that it's less work to test with more dates, you'll be inclined to just throw more in as you think of them. Only problem is, every time we add to that we have to keep adjusting the use Test::More tests =E<gt> ##> line. That can rapidly get annoying. There's two ways to make this work better.

First, we can calculate the plan dynamically using the plan() function.

use Test::More;
use Date::ICal;

my %ICal_Dates = (
    ...same as before...
);

# For each key in the hash we're running 8 tests.
plan tests => keys %ICal_Dates * 8;

Or to be even more flexible, we use no_plan. This means we're just running some tests, don't know how many. [6]
use Test::More 'no_plan';  # instead of tests => 32

now we can just add tests and not have to do all sorts of math to figure out how many we're running.

=head2 Informative names

Take a look at this line here

ok( defined $ical, "new(ical => '$ical_str')" );

we've added more detail about what we're testing and the ICal string itself we're trying out to the name. So you get results like:

ok 25 - new(ical => '19971024T120000')
ok 26 - and it's the right class
ok 27 - year()
ok 28 - month()
ok 29 - day()
ok 30 - hour()
ok 31 - min()
ok 32 - sec()

if something in there fails, you'll know which one it was and that will make tracking down the problem easier. So try to put a bit of debugging information into the test names.

Describe what the tests test, to make debugging a failed test easier for you or for the next person who runs your test.

=head2 Skipping tests

Poking around in the existing Date::ICal tests, I found this in F<st/01sanity.t> [7]

#!/usr/bin/perl -w

use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0, "Epoch time of 0" );

# XXX This will only work on unix systems.
is( $t1->ical, '19700101Z', " epoch to ical" );

is( $t1->year,  1970,       " year()" );
is( $t1->month, 1,          " month()" );
is( $t1->day,   1,          " day()" );

# like the tests above, but starting with ical instead of epoch
my $t2 = Date::ICal->new( ical => '19700101Z' );
is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );
is( $t2->epoch, 0,          " and back to ICal" );

The beginning of the epoch is different on most non-Unix operating systems [8]. Even though Perl smooths out the differences for the most part, certain ports do it differently. MacPerl is one off the top of my head. [9] We I<know> this will never work on MacOS. So rather than just putting a comment in the test, we can explicitly say it's never going to work and skip the test.

use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0,          "Epoch time of 0" );

SKIP: {
    skip('epoch to ICAl not working on MacOS', 6)
        if $^O eq 'MacOS';

    is( $t1->ical, '19700101Z', " epoch to ical" );

    is( $t1->year,  1970,       " year()" );
is( $t1->month, 1,          " month()" );
is( $t1->day,   1,          " day()" );

    # like the tests above, but starting with ical instead of epoch
    my $t2 = Date::ICal->new( ical => '19700101Z' );
is( $t2->ical, '19700101Z', "Start of epoch in ICAl notation" );

    is( $t2->epoch, 0,          " and back to ICAl" );
}

A little bit of magic happens here. When running on anything but MacOS, all the tests run normally. But when on MacOS, C<skip()> causes the entire contents of the SKIP block to be jumped over. It's never run. Instead, it prints special output that tells Test::Harness that the tests have been skipped.
1..7
ok 1 - Epoch time of 0
ok 2 # skip epoch to ICal not working on MacOS
ok 3 # skip epoch to ICal not working on MacOS
ok 4 # skip epoch to ICal not working on MacOS
ok 5 # skip epoch to ICal not working on MacOS
ok 6 # skip epoch to ICal not working on MacOS
ok 7 # skip epoch to ICal not working on MacOS

This means your tests won't fail on MacOS. This means less emails from MacPerl users telling you about failing tests that you know will never work. You've got to be careful with skip tests. These are for tests which don't work and I'll never will. It is not for skipping genuine bugs (we'll get to that in a moment).

The tests are wholly and completely skipped. [10] This will work.

```
SKIP: {
    skip("I don't wanna die!");

    die, die, die, die, die;
}
```

=head2 Todo tests

Thumbing through the Date::ICal man page, I came across this:

```
ical

$ical_string = $ical->ical;
```

Retrieves, or sets, the date on the object, using any valid ICal date/time string.

"Retrieves or sets". Hmm, didn't see a test for using C<ical()> to set the date in the Date::ICal test suite. So I'll write one.

```
use Test::More tests => 1;
use Date::ICal;

my $ical = Date::ICal->new;
$ical->ical('20201231Z');
is( $ical->ical, '20201231Z', 'Setting via ical()' );
```

run that and I get
1..1
not ok 1 - Setting via ical()
# Failed test (- at line 6)
# got: '20010814T233649Z'
# expected: '20201231Z'
# Looks like you failed 1 tests of 1.

Whoops! Looks like it's unimplemented. Let's assume we don't have
the time to fix this. [11] Normally, you'd just comment out the test
and put a note in a todo list somewhere. Instead, we're going to
explicitly state "this test will fail" by wrapping it in a C<TODO> block.

use Test::More tests => 1;

TODO: {
    local $TODO = 'ical($ical) not yet implemented';

    my $ical = Date::ICal->new;
    $ical->ical('20201231Z');

    is( $ical->ical, '20201231Z',   'Setting via ical()' );
}

Now when you run, it's a little different:

1..1
not ok 1 - Setting via ical() # TODO ical($ical) not yet implemented
# got: '20010822T201551Z'
# expected: '20201231Z'

Test::More doesn't say "Looks like you failed 1 tests of 1". That '#
TODO' tells Test::Harness "this is supposed to fail" and it treats a
failure as a successful test. So you can write tests even before
you've fixed the underlying code.

If a TODO test passes, Test::Harness will report it "UNEXPECTEDLY
SUCCEEDED". When that happens, you simply remove the TODO block with
C<local $TODO> and turn it into a real test.

=head2 Testing with taint mode.

Taint mode is a funny thing. It's the globalest of all global
features. Once you turn it on, it affects I<all> code in your program
and I<all> modules used (and all the modules they use). If a single
piece of code isn't taint clean, the whole thing explodes. With that
in mind, it's very important to ensure your module works under taint
mode.
It's very simple to have your tests run under taint mode. Just throw a `C<-T>` into the `C<#!>` line. Test::Harness will read the switches in `C<#!>` and use them to run your tests.

```
#!/usr/bin/perl -Tw

...test normally here...
```

So when you say `C<make test>` it will be run with taint mode and warnings on.

=head1 FOOTNOTES

=item 1

The first number doesn't really mean anything, but it has to be 1. It's the second number that's important.

=item 2

For those following along at home, I'm using version 1.31. It has some bugs, which is good -- we'll uncover them with our tests.

=item 3

You can actually take this one step further and test the manual itself. Have a look at `B<Test::Inline>` (formerly `B<Pod::Tests>`).

=item 4

Yes, there's a mistake in the test suite. What! Me, contrived?

=item 5

We'll get to testing the contents of lists later.

=item 6

But what happens if your test program dies halfway through?! Since we didn't say how many tests we're going to run, how can we know it failed? No problem, Test::More employs some magic to catch that death and turn the test into a failure, even if every test passed up to that point.
I cleaned it up a little.

Most Operating Systems record time as the number of seconds since a certain date. This date is the beginning of the epoch. Unix's starts at midnight January 1st, 1970 GMT.

MacOS's epoch is midnight January 1st, 1904. VMS's is midnight, November 17th, 1858, but vmsperl emulates the Unix epoch so it's not a problem.

As long as the code inside the SKIP block at least compiles. Please don't ask how. No, it's not a filter.

Do NOT be tempted to use TODO tests as a way to avoid fixing simple bugs!

AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> and the perl-qa dancers!

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NAME

File::Spec::Functions - portably perform operations on file names

SYNOPSIS

use File::Spec::Functions;
$x = catfile('a', 'b');

DESCRIPTION

This module exports convenience functions for all of the class methods provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>, which contains the entire set, and which is inherited by the modules for other platforms. For further information, please see L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

Exports

The following functions are exported by default.

canonpath
catdir
catfile
curdir
rootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.

devnull
tmpdir
splitpath
splitdir
catpath
abs2rel
rel2abs
case_tolerant
All the functions may be imported using the C<:ALL> tag.

=head1 COPYRIGHT

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=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2, File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

Found in path(s):
* /opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/lib/File/Spec/Functions.pm
No license file was found, but licenses were detected in source scan.

=back

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=cut

Found in path(s):
* /opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/lib/File/Spec/Cygwin.pm
No license file was found, but licenses were detected in source scan.

/* See
 * for the details of why the BSD license is compatible with the
 * AL/GPL standard perl license.
 */
/*
 * Copyright (c) 2003 Constantin S. Svintsoff <kostik@iclub.nsu.ru>
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
* are met:
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* 2. Redistributions in binary form must reproduce the above copyright
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* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/Cwd.xs
No license file was found, but licenses were detected in source scan.

License:        (GPL+ or Artistic) and BSD

Found in path(s):
* /opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/perl-PathTools.spec
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: PathTools
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  File::Basename: 0
  Scalar::Util: 0
  Test: 0
version: 3.40

Found in path(s):
  */opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/META.yml
No license file was found, but licenses were detected in source scan.

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

  0       all tests successful
  255     test died
  any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be affected.

Test::Builder is only thread-aware if threads.pm is loaded I<before>
Test::Builder.

=head1 EXAMPLES
CPAN can provide the best examples. Test::Simple, Test::More, Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern
E<lt>schwern@pobox.comE<gt>

=head1 COPYRIGHT

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See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
* /opt/cola/permits/1000849036_1646171516.26/0/perl-PathTools-3.40-5.el7.src.rpm-cosi-expand-archive-1Qw75xNn/PathTools-3.40.tar.gz-cosi-expand-archive-ailvvQyw/PathTools-3.40/t/lib/Test/Builder.pm
No license file was found, but licenses were detected in source scan.

=back

Test::Simple will start by printing number of tests run in the form
"1..M" (so "1..5" means you're going to run 5 tests). This strange
format lets Test::Harness know how many tests you plan on running in
case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is
normal). If anything failed it will exit with how many failed. If
you run less (or more) tests than you planned, the missing (or extras)
will be considered failures. If no tests were ever run Test::Simple
will throw a warning and exit with 255. If the test died, even after
having successfully completed all its tests, it will still be
considered a failure and will exit with 255.

So the exit codes are...

  0       all tests successful
  255     test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground it's recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;

use Film; # What you're testing.

my $btaste = Film->new( { Title => 'Bad Taste',
                           Director => 'Peter Jackson',
                           Rating   => 'R',
                           NumExplodingSheep => 1 } );

ok( defined($btaste) and ref $btaste eq 'Film',     'new() works' );

ok( $btaste->Title      eq 'Bad Taste',     'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

1..5
ok 1 - new() works
ok 2 - Title() get
ok 3 - Director() get
not ok 4 - Rating() get
# Failed test (t/film.t at line 14)
ok 5 - NumExplodingSheep() get
# Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for
using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

0      SS$_NORMAL        all tests successful
4      SS$_ABORT         something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.
Embed tests in your code!

Interprets the output of your test program.

Authors

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern
E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

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See F<http://www.perl.com/perl/misc/Artistic.html>

NAME

Cwd - get pathname of current working directory

SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

DESCRIPTION
This module provides functions for determining the pathname of the current working directory. It is recommended that getcwd (or another *cwd() function) be used in I<all> code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.

=head2 getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

=item getcwd

my $cwd = getcwd();

Returns the current working directory.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

=item cwd

my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd` (but without the trailing line terminator).

=item fastcwd

my $cwd = fastcwd();

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can't chdir() you back into. If fastcwd encounters a problem it will return undef but will probably leave you in a different directory. For a measure of extra security, if everything appears to have worked, the fastcwd() function will check that it leaves you in the same directory that it started in. If it has changed it will C<die> with the message "Unstable directory path, current directory changed unexpectedly". That should never happen.

=item fastgetcwd
my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

my $cwd = getdcwd();
my $cwd = getdcwd('C:');

The getdcwd() function is also provided on Win32 to get the current working directory on the specified drive, since Windows maintains a separate current working directory for each drive. If no drive is specified then the current drive is assumed.

This function simply calls the Microsoft C library _getdcwd() function.

=back

=head2 abs_path and friends

These functions are exported only on request. They each take a single argument and return the absolute pathname for it. If no argument is given they'll use the current working directory.

=over 4

=item abs_path

my $abs_path = abs_path($file);

Uses the same algorithm as getcwd(). Symbolic links and relative-path components ("." and "..") are resolved to return the canonical pathname, just like realpath(3).

=item realpath

my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

my $abs_path = fast_abs_path($file);

A more dangerous, but potentially faster version of abs_path.
If you ask to override your chdir() built-in function,

```
use Cwd qw(chdir);
```

then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use chdir import it from Cwd.

---

**NOTES**

Since the path separators are different on some operating systems (`/` on Unix, `:` on MacPerl, etc...) we recommend you use the File::Spec modules wherever portability is a concern.

Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd()> and C<fastcwd()> functions are all aliases for the C<cwd()> function, which, on Mac OS, calls `pwd`. Likewise, the C<abs_path()> function is an alias for C<fast_abs_path()>.

---

**AUTHOR**

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Maintained by Ken Williams <KWILLIAMS@cpan.org>

---

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\section*{SEE ALSO}
\texttt{L::File::chdir}

\section*{cut}

Found in path(s):
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See \texttt{L::File::Spec} and \texttt{L::File::Spec::Unix}. This package overrides the
implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at

\section*{NAME}

\texttt{File::Spec::OS2} - methods for OS/2 file specs

\section*{SYNOPSIS}

\texttt{require File::Spec::OS2; # Done internally by File::Spec if needed}

\section*{DESCRIPTION}
See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=item tmpdir

Modifies the list of places temp directory information is looked for.

$ENV{TMPDIR}
$ENV{TEMP}
$ENV{TMP}
/tmp
/

=item splitpath

Volumes can be drive letters or UNC sharenames (\server\share).

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=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

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=head1 AUTHORS

See the authors list in L<File::Spec>. Mac OS support by Paul Schinder <schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

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See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

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Found in path(s):
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cut

=head1 NAME

File::Spec - portably perform operations on file names

cut

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=head1 SYNOPSIS

use File::Spec;

$x=File::Spec->catfile('a', 'b', 'c');
which returns 'a/b/c' under Unix. Or:

use File::Spec::Functions;

$x = catfile('a', 'b', 'c');

=head1 DESCRIPTION

This module is designed to support operations commonly performed on file specifications (usually called "file names", but not to be confused with the contents of a file, or Perl's file handles), such as concatenating several directory and file names into a single path, or determining whether a path is rooted. It is based on code directly taken from MakeMaker 5.17, code written by Andreas Kö<ouml>nig, Andy Dougherty, Charles Bailey, Ilya Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of OS specific routines is available in a separate module, including:

File::Spec::Unix
File::Spec::Mac
File::Spec::OS2
File::Spec::Win32
File::Spec::VMS

The module appropriate for the current OS is automatically loaded by File::Spec. Since some modules (like VMS) make use of facilities available only under that OS, it may not be possible to load all modules under all operating systems.

Since File::Spec is object oriented, subroutines should not be called directly, as in:

File::Spec::catfile('a', 'b');

but rather as class methods:

File::Spec->catfile('a', 'b');

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath
No physical check on the filesystem, but a logical cleanup of a path.

```perl
$cpath = File::Spec->canonpath( $path ) ;
```

Note that this does *not* collapse `F<x/../y>` sections into `F<y>`. This is by design. If `F</foo>` on your system is a symlink to `F</bar/baz>`, then `F</foo/../quux>` is actually `F</bar/quux>`, not `F</quux>` as a naive `F<../>-removal would give you. If you want to do this kind of processing, you probably want `C<Cwd>`'s `C<realpath()>` function to actually traverse the filesystem cleaning up paths like this.

=item catdir
X<catdir>

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn't look good, isn't necessary and confuses OS/2. Of course, if this is the root directory, don't cut off the trailing slash :-)  

```perl
$path = File::Spec->catdir( @directories );
```

=item catfile
X<catfile>

Concatenate one or more directory names and a filename to form a complete path ending with a filename

```perl
$path = File::Spec->catfile( @directories, $filename );
```

=item curdir
X<curdir>

Returns a string representation of the current directory.

```perl
$curdir = File::Spec->curdir();
```

=item devnull
X<devnull>

Returns a string representation of the null device.

```perl
$devnull = File::Spec->devnull();
```
X<rootdir>

Returns a string representation of the root directory.

$rootdir = File::Spec->rootdir();

=item tmpdir
X<tmpdir>

Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks C<$ENV{TMPDIR}>(unless taint is on) and F</tmp>.

$tmpdir = File::Spec->tmpdir();

=item updir
X<updir>

Returns a string representation of the parent directory.

$updir = File::Spec->updir();

=item no_upwards

Given a list of file names, strip out those that refer to a parent directory. (Does not strip symlinks, only '.' , '..', and equivalents.)

@paths = File::Spec->no_upwards( @paths );

=item case_tolerant

Returns a true or false value indicating, respectively, that alphabetic case is not or is significant when comparing file specifications. Cygwin and Win32 accept an optional drive argument.

$case_tolerant = File::Spec->case_tolerant();

=item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

$absolute = File::Spec->file_name_is_absolute( $path );

This does not consult the local filesystem on Unix, Win32, OS/2, or Mac OS (Classic). It does consult the working environment for VMS (see L<File::Spec::VMS/file_name_is_absolute>).
=item path
X<path>

Takes no argument. Returns the environment variable C<path> (or the local platform's equivalent) as a list.

@PATH = File::Spec->path();

=item join
X<join, path>

join is the same as catfile.

=item splitpath
X<splitpath> X<split, path>

Splits a path in to volume, directory, and filename portions. On systems with no concept of volume, returns " for volume.

($volume,$directories,$file) =
   File::Spec->splitpath( $path );
($volume,$directories,$file) =
   File::Spec->splitpath( $path, $no_file );

For systems with no syntax differentiating filenames from directories, assumes that the last file is a path unless C<$no_file> is true or a trailing separator or F<./> or F/../> is present. On Unix, this means that C<$no_file> true makes this return ( " , $path , " ).

The directory portion may or may not be returned with a trailing '/'.

The results can be passed to L<catpath()> to get back a path equivalent to (usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>

The opposite of L<catdir>.  

@dirs = File::Spec->splitdir( $directories );

C<$directories> must be only the directory portion of the path on systems that have the concept of a volume or that have path syntax that differentiates files from directories.

Unlike just splitting the directories on the separator, empty directory names (C"">) can be returned, because these are significant
on some OSes.

=item catpath()

Takes volume, directory and file portions and returns an entire path. Under
Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is
inserted if need be. On other OSes, C<$volume> is significant.

$full_path = File::Spec->catpath( $volume, $directory, $file );

=item abs2rel

X<abs2rel> X<absolute, path> X<relative, path>

Takes a destination path and an optional base path returns a relative path
from the base path to the destination path:

$rel_path = File::Spec->abs2rel( $path ) ;
$rel_path = File::Spec->abs2rel( $path, $base ) ;

If C<$base> is not present or ".", then L<Cwd::cwd()> is used. If C<$base> is
relative, then it is converted to absolute form using
L</rel2abs()> . This means that it is taken to be relative to
L<Cwd::cwd()> .

On systems with the concept of volume, if C<$path> and C<$base> appear to be
on two different volumes, we will not attempt to resolve the two
paths, and we will instead simply return C<$path>. Note that previous
versions of this module ignored the volume of C<$base>, which resulted in
garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the
C<$base> filename as well. Otherwise all path components are assumed to be
directories.

If C<$path> is relative, it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L<Cwd::cwd()> .

No checks against the filesystem are made. On VMS, there is
interaction with the working environment, as logicals and
macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()

X<rel2abs> X<absolute, path> X<relative, path>

Converts a relative path to an absolute path.
$abs_path = File::Spec->rel2abs( $path ) ;
$abs_path = File::Spec->rel2abs( $path, $base ) ;

If C<$base> is not present or ", then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()> . This means that it is taken to be relative to L<Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path> . Note that previous versions of this module ignored the volume of C<$base> , which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the C<$base> filename as well. Otherwise all path components are assumed to be directories.

If C<$path> is absolute, it is cleaned up and returned using L</canonpath>.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=back

For further information, please see L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head1 SEE ALSO

L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>,
L<File::Spec::Win32>, L<File::Spec::VMS>, L<File::Spec::Functions>,
L<ExtUtils::MakeMaker>

=head1 AUTHOR

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Mac support by Paul Schinder <<schinder@pobox.com>>, and Thomas Wegner <<wegner_thomas@yahoo.com>>.
abs2rel() and rel2abs() written by Shigio Yamaguchi <<shigio@tamacom.com>>, modified by Barrie Slaymaker <<barries@slaysys.com>>.
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

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  */
  * /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  * jar/org/springframework/framework/expression/MethodExecutor.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-jar/org/springframework/expression/ConstructorExecutor.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-jar/org/springframework/expression/common/TemplateParserContext.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-jar/org/springframework/expression/ExpressionInvocationTargetException.java
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* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-jar/org/springframework/expression/spel/ast/OperatorBetween.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-jar/org/springframework/expression/spel/CompilablePropertyAccessor.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
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  jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/ast/OpDec.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/SpelParseException.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/ast/OpMinus.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/SpelParserException.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/ast/Literal.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/PropertyAccessor.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/TypeConverter.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/TypeOverloader.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/TypeComparator.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/Expression.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/OperatorOverloader.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/SpelException.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/support/StandardTypeOverloader.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/support/StandardTypeParserException.java
* /opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/support/StandardTypeException.java
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  jar/org/springframework/expression/ParseException.java
  */opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/CompiledExpression.java
  */opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/ParserContext.java
  */opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/TypeCode.java
  */opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/support/StandardTypeConverter.java

  */opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
  */opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/ast/selection.java
  */opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/ast/spelNodeImpl.java
  */opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/ast/opmultiply.java
  */opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
  jar/org/springframework/expression/spel/ast/opmodulus.java
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  jar/org/springframework/expression/spel/ast/stringLiteral.java

  */opt/cola/permits/1110675922_1606842995.89/0/spring-expression-5-1-6-release-sources-
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Library will not necessarily be able to recompile the application
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.662 golang-protobuf-extensions v1.0.0

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* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/graph/Visitor.java
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* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/collection/NavigableMap.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/collection/ConcurrentNavigableMap.java
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* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/xml/catalog/helpers/BootstrapResolver.java
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* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/org/jboss/util/timeout/TimeoutFactory.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/org/jboss/util/xml/CatalogLocation.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/org/jboss/util/timeout/Timeout.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/org/jboss/util/xml/DOMUtils.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/org/jboss/util/propertyeditor/ClassArrayEditor.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/org/jboss/net/protocol/URLStreamHandlerFactory.java
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This class implements the semantics of OASIS Open Catalog files (defined by OASIS Technical Resolution 9401:1997 (Amendment 2 to TR 9401)). The primary purpose of the Catalog is to associate resources in the document with local system identifiers. Some entities (document types, XML entities, and notations) have names and all of them can have either public or system identifiers or both. (In XML, only a notation can have a public identifier without a system identifier, but the methods implemented in this class obey the Catalog semantics from the SGML days when system identifiers were optional.)
* The system identifiers returned by the resolution methods in this
* class are valid, i.e. usable by, and in fact constructed by, the
* <tt>java.net.URL</tt> class. Unfortunately, this class seems to behave in
* somewhat non-standard ways and the system identifiers returned may
* not be directly usable in a browser or filesystem context.
* 
* This class recognizes all of the Catalog entries defined in
* TR9401:1997:
* 
* <ul>
* <li><b>BASE</b> changes the base URI for resolving relative system identifiers. The
* initial base URI is the URI of the location of the catalog (which is,
* in turn, relative to the location of the current working directory
* at startup, as returned by the <tt>user.dir</tt> system property).</li>
* <li><b>CATALOG</b> processes other catalog files. An included catalog occurs logically
* at the end of the including catalog.</li>
* <li><b>DELEGATE_PUBLIC</b> specifies alternate catalogs for some public identifiers. The delegated
* catalogs are not loaded until they are needed, but they are cached
* once loaded.</li>
* <li><b>DELEGATE_SYSTEM</b> specifies alternate catalogs for some system identifiers. The delegated
* catalogs are not loaded until they are needed, but they are cached
* once loaded.</li>
* <li><b>DELEGATE_URI</b> specifies alternate catalogs for some URIs. The delegated
* catalogs are not loaded until they are needed, but they are cached
* once loaded.</li>
* <li><b>REWRITE_SYSTEM</b> specifies alternate prefix for a system identifier.</li>
* <li><b>REWRITE_URI</b> specifies alternate prefix for a URI.</li>
* <li><b>DOCTYPE</b> associates the names of root elements with URIs. (In other words, an XML
* processor might infer the doctype of an XML document that does not include
* a doctype declaration by looking for the DOCTYPE entry in the
* catalog which matches the name of the root element of the document.)</li>
* <li><b>DOCUMENT</b> provides a default document.</li>
* <li><b>DTDDECL</b> recognized and silently ignored. Not relevant for XML.</li>
* <li><b>ENTITY</b> associates entity names with URIs.</li>
* <li><b>LINKTYPE</b> recognized and silently ignored. Not relevant for XML.
* <li><b>NOTATION</b> associates notation names with URIs.</li>
* <li><b>OVERRIDE</b> changes the override behavior. Initial behavior is set by the
  * system property <tt>xml.catalog.override</tt>. The default initial
  * behavior is 'YES', that is, entries in the catalog override
  * system identifiers specified in the document.</li>
* <li><b>PUBLIC</b> maps a public identifier to a system identifier.</li>
* <li><b>SGMLDECL</b> recognized and silently ignored. Not relevant for XML.</li>
* <li><b>SYSTEM</b> maps a system identifier to another system identifier.</li>
* <li><b>URI</b> maps a URI to another URI.</li>

* </ul>

* </dl>

* Note that BASE entries are treated as described by RFC2396. In
  * particular, this has the counter-intuitive property that after a BASE
  * entry identifying "http://example.com/a/b/c" as the base URI,
  * the relative URI "foo" is resolved to the absolute URI
  * "http://example.com/a/b/foo". You must provide the trailing slash if
  * you do not want the final component of the path to be discarded as a
  * filename would in a URI for a resource: "http://example.com/a/b/c/".
* </p>

* Note that subordinate catalogs (all catalogs except the first,
  * including CATALOG and DELEGATE* catalogs) are only loaded if and when
  * they are required.</p>

* This class relies on classes which implement the CatalogReader
  * interface to actually load catalog files. This allows the catalog
  * semantics to be implemented for TR9401 text-based catalogs, XML
  * catalogs, or any number of other storage formats.</p>

* Additional catalogs may also be loaded with the
  * [@link #parseCatalog(String)] method.</p>

* Change Log:

* 2.0
* Rewrite to use CatalogReaders.</p>
* 1.1
* Allow quoted components in <tt>xml.catalog.files</tt>
* so that URLs containing colons can be used on Unix.
* The string passed to <tt>xml.catalog.files</tt> can now have the form:
* <pre>
* unquoted-path-with-no-sep-chars:"double-quoted path with or without sep chars":'single-quoted path with or
* without sep chars'
* </pre>
* <p>(Where ":" is the seperator character in this example.)</p>
* If an unquoted path contains an embedded double or single quote
* charater, no special processig is performed on that character. No
* path can contain seperator characters, double, and single quotes
* simultaneously.</p>
* Fix bug in calculation of BASE entries: if
* a catalog contains multiple BASE entries, each is relative to the preceding
* base, not the default base URI of the catalog.</p>
* </dd>
* </dl>
* </dt>1.0.1</dt>
* Fixed a bug in the calculation of the list of subordinate catalogs.
* This bug caused an infinite loop where parsing would alternately process
* two catalogs indefinitely.</p>
* </dd>
* </dl>
* *
* @see CatalogReader
* @see CatalogEntry
* *
* @author Norman Walsh
* <a href="mailto:Norman.Walsh@Sun.COM">Norman.Walsh@Sun.COM</a>
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  jar/org/jboss/util/collection/WeakTypeCache.java
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  jar/org/jboss/util/collection/WeakSet.java
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  jar/org/jboss/util/timeout/TimeoutPriorityQueueImpl.java
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jar/org/jboss/util/file/JarStreamBrowser.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
jar/org/jboss/util/state/StateMachine.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
jar/org/jboss/util/collection/CollectionsUtil.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
jar/org/jboss/util/state/State.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
jar/org/jboss/util/stream/IMarshalledValue.java

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 */
/**
 * Encodes and decodes to and from Base64 notation.
 * *
 * <p>
 * Change Log:
 * </p>
 * <ul>
 * <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
 * some convenience methods for reading and writing to and from files.</li>
 * <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
 * with other encodings (like EBCDIC).</li>
 * <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the
 * encoded data was a single byte.</li>
 * <li>v2.0 - I got rid of methods that used booleans to set options.
 * Now everything is more consolidated and cleaner. The code now detects
 * when data that's being decoded is gzip-compressed and will decompress it
 * */
* automatically. Generally things are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (\texttt{int}s that you "OR" together).
* \begin{itemize}
* \item[v1.5.1] Fixed bug when decompressing and decoding to a
* \texttt{byte[]} using \texttt{decode( String s, boolean gzipCompressed )}.
* \item Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).
* \item[v1.5] Output stream passes on flush() command but doesn't do anything itself.
* \item This helps when using GZIP streams.
* \item Added the ability to GZip-compress objects before encoding them.
* \item[v1.4] Added helper methods to read/write files.
* \item[v1.3.6] Fixed OutputStream.flush() so that 'position' is reset.
* \item[v1.3.5] Added flag to turn on and off line breaks. Fixed bug in input stream
* \item where last buffer being read, if not completely full, was not returned.
* \item[v1.3.4] Fixed when "improperly padded stream" error was thrown at the wrong time.
* \item[v1.3.3] Fixed I/O streams which were totally messed up.
* \end{itemize}

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plenty of well-wishing instead!
Please visit \url{http://iharder.net/base64} periodically to check for updates or to contribute improvements.

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@ \email{rob@iharder.net}
@ \version{2.1}
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* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/loading/ConstructorTCCLClassLoaderSource.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/loading/MyClassLoaderClassLoaderSource.java
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  jar/org/jboss/util/property/PropertyListener.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/org/jboss/util/platform/PID.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/org/jboss/util/propertyeditor/DocumentEditor.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/collection/SoftValueHashMap.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/collection/ListSet.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/id/VMID.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/propertyeditor/LongEditor.java
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  jar/jboss/util/collection/ReverseListIterator.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/Classes.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/SysPropertyActions.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/stream/MarshalledValueInputStream.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/file/Files.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/property/Configurable.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/property/PropertyContainer.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/collection/CollectionException.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/threadpool/StartTimeoutException.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-
  jar/jboss/util/property/PropertyAdapter.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/propertyeditor/CharacterEditor.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/threadpool/RunnableTaskWrapper.java
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* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/HashCode.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/property/BoundPropertyListener.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/NestedException.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/collection/EmptyCollectionException.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/NullArgumentException.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/xml/JBossErrorHandler.java
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* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/property/PropertyGroup.java
* /opt/cola/permits/1002303213_1654022867.3890734/0/jboss-common-core-2-2-17-ga-sources-jar/org/jboss/util/stream/StreamListener.java
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**1.667 netty-resolver 4.1.53.Final**

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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver
Implementation-Version: 4.1.53.Final
Built-By: root
Bnd-LastModified: 1602570792769
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1,5)";io.netty.util.concurrent;version="[4.1,5)";io.netty.util.internal;version="[4.1,5)";io.netty.util.logging;version="[4.1,5)";sun.nio.ch;resolution=optional,org.eclipse.jetty.npn;version="[1,2)";resolution=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.resolver;uses="io.netty.util.concurrent";version="4.1.53"

Bundle-Name: Netty/Resolver
Bundle-Version: 4.1.53.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-resolver/

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* /opt/cola/permits/1110674928_1654023026.0224116/0/wildfly-host-controller-6-0-2-final-sources-1-jar/org/jboss/as/domain/controller/resources/DomainResolver.java
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public DomainControllerLogger_$logger(final Logger log) {  

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* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ParseDate.java
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1.685 xml-apis-ext 1.3.04

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* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
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* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-
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* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/RawTargetAccess.java
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* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/SpringProxy.java
* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/AfterAdvice.java
* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java

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* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1136608007_1613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java

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* /opt/cola/permits/11613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /opt/cola/permits/11613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/TargetClassAware.java
* /opt/cola/permits/11613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
* /opt/cola/permits/11613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
* /opt/cola/permits/11613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/ProxyMethodInvocation.java
* /opt/cola/permits/11613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/cola/permits/11613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
* /opt/cola/permits/11613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /opt/cola/permits/11613806921.85/0/spring-aop-5-1-9-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java

1.689 slf4j 1.7.30

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1.690 libsemanage 2.5-14.el7

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work...
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
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the user installs one, as long as the modified version is
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c) Accompany the work with a written offer, valid for at
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1.692 ndisc 1.0.3-1.el7

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1.694 wildfly-weld-common 14.0.1.Final

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* /opt/cola/permits/1091710970_1607116214.8/0/spring-security-web-3-1-4-release-sources-1.jar/org/springframework/security/web/authentication/www/DigestAuthenticationEntryPoint.java
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* /opt/cola/permits/1091710970_1607116214.8/0/spring-security-web-3-1-4-release-sources-1.jar/org/springframework/security/web/authentication/AbstractAuthenticationProcessingFilter.java
* /opt/cola/permits/1091710970_1607116214.8/0/spring-security-web-3-1-4-release-sources-1.jar/org/springframework/security/web/authentication/AnonymousAuthenticationFilter.java
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1.697 spring-ldap 1.3.1.RELEASE

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* /opt/cola/permits/1158236411_1619721409.05/0/spring-ldap-1-3-1-release-sources-6-jar/org/springframework/idap/test/ContextSourceEc2InstanceLaunchingFactoryBean.java
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* /opt/cola/permits/1158236411_1619721409.05/0/spring-ldap-1-3-1-release-sources-6-jar/org/springframework/idap/NotContextException.java
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jar/org/springframework/ldap/filter/GreaterThanOrEqualsFilter.java
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* /opt/cola/permits/1158236411_1619721409.05/0/spring-ldap-1-3-1-release-sources-6-
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jar/org/springframework/ldap/MalformedLinkException.java
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1.698 udisks 2.8.4-1.el7

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1.701 perl-exporter 5.68-3.el7

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NAME

Exporter - Implements default import method for modules
SYNOPSIS
In module YourModule.pm:

```perl
package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request
```

or

```perl
package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request
```

In other files which wish to use "YourModule":

```perl
use YourModule qw(frobnicate);      # import listed symbols
frobnicate ($left, $right)          # calls YourModule::frobnicate
```

Take a look at "Good Practices" for some variants you will like to use in modern Perl code.

DESCRIPTION
The Exporter module implements an "import" method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own "import" method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the "import" method when processing a "use" statement for a module. Modules and "use" are documented in perlfunc and perlmud. Understanding the concept of modules and how the "use" statement operates is important to understanding the Exporter.

How to Export
The arrays @EXPORT and @EXPORT_OK in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typelobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

```perl
@EXPORT    = qw(afunc $scalar @array);   # afunc is a function
@EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
```

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.
Selecting What To Export
Do not export method names!

Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try to use @EXPORT_OK in preference to @EXPORT and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the "YourModule::item_name" (or "$blessed_ref->method") syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

my $subref = sub { ... };  
$subref->(@args);          # Call it as a function  
$obj->$subref(@args);      # Use it as a method

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then @EXPORT_OK anything but use @EXPORT with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in perlmod.

How to Import
In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

"use YourModule;"
This imports all the symbols from YourModule's @EXPORT into the namespace of the "use" statement.

"use YourModule ();"
This causes perl to load your module but does not import any symbols.

"use YourModule qw(...);"
This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your @EXPORT or @EXPORT_OK, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically
distinct from symbol names.

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

Advanced features
Specialised Import Lists
If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

- ![name] This name only
- ![]:DEFAULT All names in @EXPORT
- ![]:tag All names in $EXPORT_TAGS{tag} anonymous list
- ![]/pattern/ All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

e.g., Module.pm defines:

```perl
@EXPORT = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK. Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(/^\[AP\]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., "/^EXIT/" rather than "/EXIT/".

You can say "BEGIN { $Exporter::Verbose=1 }" to see how the specifications are being processed and what is actually being imported into modules.
Exporting without using Exporter's import method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

```
MyPackage->export_to_level($where_to_export, $package, @what_to_export);
```

where $where_to_export is an integer telling how far up the calling stack to export your symbols, and @what_to_export is an array telling what symbols *to* export (usually this is @_). The $package argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

```
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;    # not a very useful import method
}
```

and you want to Export symbol $A::b back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

```
package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}
```

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify @_ at all before you call export_to_level - or people using your package will get very unexplained results!

Exporting without inheriting from Exporter

By including Exporter in your @ISA you inherit an Exporter's import()
method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

    package YourModule;
    use Exporter qw( import );

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in @YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

Module Version Checking
The Exporter module will convert an attempt to import a number from a module into a call to "$module_name->require_version($value)". This can be used to validate that the version of the module being used is greater than or equal to the required version.

The Exporter module supplies a default "require_version" method which checks the value of $VERSION in the exporting module.

Since the default "require_version" method treats the $VERSION number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

Managing Unknown Symbols
In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the @EXPORT_FAIL array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

    @failed_symbols = $module_name->export_fail(@failed_symbols);

If the "export_fail" method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default "export_fail" method which simply returns the list unchanged.
Uses for the "export_fail" method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

Tag Handling Utility Functions
Since the symbols listed within %EXPORT_TAGS must also appear in either @EXPORT or @EXPORT_OK, two utility functions are provided which allow you to easily add tagged sets of symbols to @EXPORT or @EXPORT_OK:

%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

Exporter::export_tags('foo');  # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to @EXPORT or @EXPORT_OK unchanged but will trigger a warning (with "-w") to avoid misspelt tags names being silently added to @EXPORT or @EXPORT_OK. Future versions may make this a fatal error.

Generating combined tags
If several symbol categories exist in %EXPORT_TAGS, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

CGI.pm creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;

    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
Note that the tag names in `%EXPORT_TAGS` don't have the leading `':`.

"AUTOLOAD"ed Constants

Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see perlsub for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been "AUTOLOAD"ed yet). perl needs to examine both the "()" prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a "BEGIN" block:

```perl
package My;
use Socket;
foo( SO_LINGER );   ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );   ## SO_LINGER optimized away at compile time.
```

This forces the "AUTOLOAD" for "SO_LINGER" to take place before SO_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an "AUTOLOAD" for any constants explicitly imported by other packages or which are usually used when your package is "use"d.

Good Practices

Declaring @EXPORT_OK and Friends

When using "Exporter" with the standard "strict" and "warnings" pragmas, the "our" keyword is needed to declare the package variables @EXPORT_OK, @EXPORT, @ISA, etc.

```perl
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6 is important, one must write instead a "use vars" statement.

```perl
use vars qw(@ISA @EXPORT_OK);
```
Playing Safe
There are some caveats with the use of runtime statements like "require Exporter" and the assignment to package variables, which can very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use "BEGIN" blocks. So the first part of the "SYNOPSIS" code could be rewritten as:

```perl
package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate); # symbols to export on request
}
```

The "BEGIN" will assure that the loading of Exporter.pm and the assignments to @ISA and @EXPORT_OK happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading "Exporter" and inheriting, there are alternatives with the use of modules like "base" and "parent".

```perl
use base qw( Exporter );
# or
use parent qw( Exporter );
```

Any of these statements are nice replacements for "BEGIN { require Exporter; @ISA = qw(Exporter); }" with the same compile-time effect. The basic difference is that "base" code interacts with declared "fields" while "parent" is a streamlined version of the older "base" code to just establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use Exporter::Easy, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.
use Exporter::Easy (  
    OK => [ qw(munge frobnicate) ],  
);  
# @ISA setup is automatic  
# all assignments happen at compile time

What not to Export
You have been warned already in "Selecting What To Export" to not export:

* method names (because you don't need to and that's likely to not do what you want),

* anything by default (because you don't want to surprise your users... badly)

* anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names. Just because "Exporter" lets you do that, it does not mean you should.

    @EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

SEE ALSO
"Exporter" is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

    Exporter::Easy
    Exporter::Lite
    Exporter::Renaming
    Exporter::Tidy
    Sub::Exporter / Sub::Installer
    Perl6::Export / Perl6::Export::Attrs

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---
abstract: 'Implements default import method for modules'
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Exporter
no_index:
directory:
  - t
  - inc
recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04
requires:
  Carp: 1.05
resources:
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD:/lib
  x_MailingList: http://lists.perl.org/list/perl5-porters.html
  version: 5.68

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Exporter - Implements default import method for modules

In module F<YourModule.pm>:

```perl
package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
```

or

```perl
package YourModule;
use Exporter 'import'; # gives you Exporter's import() method directly
@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
```

In other files which wish to use C<YourModule>:

```perl
use YourModule qw(frobnicate);      # import listed symbols
frobnicate ($left, $right)          # calls YourModule::frobnicate
```

Take a look at L</Good Practices> for some variants you will like to use in modern Perl code.

The Exporter module implements an C<import> method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own C<import> method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the C<import> method when processing a C<use> statement for a module. Modules and C<use> are documented in L<perlfunc> and L<perlmod>. Understanding the concept of modules and how the C<use> statement operates is important to understanding the Exporter.

The arrays C<@EXPORT> and C<@EXPORT_OK> in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the
ampersand in front of a function is optional, e.g.

    @EXPORT    = qw(afunc $scalar @array);   # afunc is a function
    @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the
ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export
try to use C<@EXPORT_OK> in preference to C<@EXPORT> and avoid short or
common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the
module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>)
syntax. By convention you can use a leading underscore on names to
informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

    my $subref = sub { ... ;
    $subref->(@args); # Call it as a function
    $obj->$subref(@args); # Use it as a method

However if you use them for methods it is up to you to figure out
how to make inheritance work.)

As a general rule, if the module is trying to be object oriented
then export nothing. If it's just a collection of functions then
C<@EXPORT_OK> anything but use C<@EXPORT> with caution. For function and
method names use barewords in preference to names prefixed with
ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for
them to load your module and import its symbols:

=over 4

=item C<use YourModule;>
This imports all the symbols from YourModule's \C<@EXPORT> into the namespace of the \C<use> statement.

\item \C<use YourModule ();>

This causes perl to load your module but does not import any symbols.

\item \C<use YourModule qw(...)>  

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your \C<@EXPORT> or \C<@EXPORT_OK>, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

\[!]name       This name only
\[!:DEFAULT    All names in @EXPORT
\[!:tag        All names in $EXPORT_TAGS\{tag\} anonymous list
\[!]/pattern/  All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

E.g., F<Module.pm> defines:

\begin{verbatim}
@EXPORT      = qw(A1 A2 A3 A4 A5);
@EXPORT_OK   = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => \{qw(A1 A2 B1 B2),\}, T2 => \{qw(A1 A2 B3 B4)\});
\end{verbatim}

Note that you cannot use tags in @EXPORT or @EXPORT_OK.
Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

    use Module qw(:DEFAULT :T2 !B3 A3);

Other examples include:

    use Socket qw(!/^[AP]F_/ !SOMAXCONN !SOL_SOCKET);
    use POSIX  qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 }> to see how the specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

    MyPackage->export_to_level($where_to_export, $package, @what_to_export);

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C@$what_to_export> is an array telling what symbols *to* export (usually this is C@$_>). The C$package> argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

    package A;

    @ISA = qw(Exporter);
    @EXPORT_OK = qw ($b);

    sub import
    { 
        $A::b = 1;  # not a very useful import method
    }

and you want to Export symbol C<$A::b> back to the module that called
package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

    package A;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw ($b);

    sub import
    {
    $A::b = 1;
    A->export_to_level(1, @_);
    }

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level - or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

    package YourModule;
    use Exporter qw( import );

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a module into a call to C<< $module_name->VERSION($value) >>. This can be used to validate that the version of the module being used is greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION> existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as
a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

```perl
@failed_symbols = $module_name->export_fail(@failed_symbols);
```

If the C<export_fail> method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default C<export_fail> method which simply returns the list unchanged.

Uses for the C<export_fail> method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into C<@EXPORT_FAIL> by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within C<%EXPORT_TAGS> must also appear in either C<@EXPORT> or C<@EXPORT_OK>, two utility functions are provided which allow you to easily add tagged sets of symbols to C<@EXPORT> or C<@EXPORT_OK>:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK
```

Any names which are not tags are added to C<@EXPORT> or C<@EXPORT_OK> unchanged but will trigger a warning (with C<-w>) to avoid misspelt tags names being silently added to C<@EXPORT> or C<@EXPORT_OK>. Future versions may make this a fatal error.
Generating Combined Tags

If several symbol categories exist in C<%EXPORT_TAGS>, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

# add all the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;
    push @{$EXPORT_TAGS{all}},
    grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}
```

F<CGI.pm> creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

```perl
# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;
    push @{$EXPORT_TAGS{all}},
    grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
    foreach qw/html2 html3 netscape form cgi internal/;
}
```

Note that the tag names in C<%EXPORT_TAGS> don't have the leading ":".

=head2 C<AUTOLOAD>ed Constants

Many modules make use of C<AUTOLOAD>ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see L<perlsub> for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been C<AUTOLOAD>ed yet). perl needs to examine both the C<() prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.
A workaround for this is to call the constants once in a `BEGIN` block:

```perl
package My;
use Socket;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.
```

This forces the `AUTOLOAD` for `SO_LINGER` to take place before `SO_LINGER` is encountered later in `My` package.

If you are writing a package that `AUTOLOAD`s, consider forcing an `AUTOLOAD` for any constants explicitly imported by other packages or which are usually used when your package is `use`d.

=head1 Good Practices

=head2 Declaring `@EXPORT_OK` and Friends

When using `Exporter` with the standard `strict` and `warnings` pragmas, the `our` keyword is needed to declare the package variables `EXPORT_OK`, `EXPORT`, `ISA`, etc.

```perl
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perl 5.6 is important, one must write instead a `use vars` statement.

```perl
use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);
```

=head2 Playing Safe

There are some caveats with the use of runtime statements like `require Exporter` and the assignment to package variables, which can very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use `BEGIN` blocks. So the first part of the `<SYNOPSIS>` code could be rewritten as:
package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}

The C<BEGIN> will assure that the loading of F<Exporter.pm>
and the assignments to C<@ISA> and C<@EXPORT_OK> happen
immediately, leaving no room for something to get awry
or just plain wrong.

With respect to loading C<Exporter> and inheriting, there
are alternatives with the use of modules like C<base> and C<parent>.

use base qw( Exporter );
# or
use parent qw( Exporter );

Any of these statements are nice replacements for
C<BEGIN { require Exporter; @ISA = qw(Export); }>
with the same compile-time effect. The basic difference
is that C<base> code interacts with declared C<fields>
while C<parent> is a streamlined version of the older
C<base> code to just establish the IS-A relationship.

For more details, see the documentation and code of
L<base> and L<parent>.

Another thorough remedy to that runtime
vs. compile-time trap is to use L<Exporter::Easy>,
which is a wrapper of Exporter that allows all
boilerplate code at a single gulp in the
use statement.

use Exporter::Easy (
    OK => [ qw(munge frobnicate) ],
);  # @ISA setup is automatic
    # all assignments happen at compile time

=head2 What Not to Export
You have been warned already in L<Selecting What to Export> to not export:

=over 4
=item *

method names (because you don't need to and that's likely to not do what you want),

=item *

anything by default (because you don't want to surprise your users... badly)

=item *

anything you don't need to (because less is more)

=back

There's one more item to add to this list. Do B<not> export variable names. Just because C<Exporter> lets you do that, it does not mean you should.

@EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

Exporter::Easy
Exporter::Lite
Exporter::Renaming
This library is free software. You can redistribute it and/or modify it under the same terms as Perl itself.

1.702 jackson-module-parameter-names 2.9.8

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making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
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special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
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*/

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**
* Marker interface for OutputStreams that can directly support
* copying from an input stream. OutputStreams that maintain their
* own byte buffer or similar may be able to optimize the copy
* instead of using the read/write into a temporary buffer that
* the normal IOUtils.copy method requires.
*/
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;
}
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Julian Seward, jseward@bzip.org
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The End
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
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repository: http://github.com/dagolden/module-build/
version: 3
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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#
# Create test distribution
#---------------------------------------------------------------#
{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/", 
    "META license URL is correct"
);

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/", 
    "META license URL is correct"
);

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

1.717 lucene-grouping 7.4.0
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jar/org/springframework/remoting/caucho/BurlapServiceExporter.java
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Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoprotoc

Go support for Protocol Buffers - Google's data interchange format

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Go support for Protocol Buffers - Google's data interchange format

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* /opt/cola/permits/1104729481_1604648810.18/0/netty-handler-4-1-53-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1104729481_1604648810.18/0/netty-handler-4-1-53-final-sources-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
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* /opt/cola/permits/1104729481_1604648810.18/0/netty-handler-4-1-53-final-sources-jar/io/netty/handler/address/PseudoRandomFunction.java
* /opt/cola/permits/1104729481_1604648810.18/0/netty-handler-4-1-53-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java

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  jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/plants/1104729481_1604648810.18/0/netty-handler-4-1-53-final-sources-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/plants/1104729481_1604648810.18/0/netty-handler-4-1-53-final-sources-
  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
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  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
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  jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
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  jar/io/netty/handler/pcap/PcapHeaders.java
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1.735 qpid-proton 0.16.0

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1.737 classmate 1.5.1

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1.744 libtool 2.4.2 22.el7_3
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/*
* During the great date rewrite of 1.3, we tried to track the evolving ECMA standard, which then had a definition of getYear which always subtracted 1900. Which we implemented, not realizing that it was incompatible with the old behavior... now, rather than thrash the behavior yet again, we've decided to leave it with the - 1900 behavior and point people to the getFullYear method. But we try to protect existing scripts that have specified a version...
*/

---

```
* TreeTableModel.java
*
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  jar/org/mozilla/javascript/tools/debugger/treetable/TreeTableModel.java
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 * @(#)TreeTableModelAdapter.java       1.2 98/10/27
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This is interface defines a protocol for the reporting of
errors during JavaScript translation in IDE-mode.
If the [link org.mozilla.javascript.Parser]'s error reporter is
set to an instance of this interface, then this interface's
[link #warning] and [link #error] methods are called instead
of the [link org.mozilla.javascript.ErrorReporter] versions. <p>

These methods take a source char offset and a length. The
rationale is that in interactive IDE-type environments, the source
is available and the IDE will want to indicate where the error
occurred and how much code participates in it. The start and length
are generally chosen to fit within a single line, for readability,
but the client is free to use the AST to determine the affected
node(s) from the start position and change the error or warning's
display bounds.<p>

@author Steve Yegge

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// throws a special exception. This ensures execution of all pending

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* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/commonjs/module/provider/ModuleSourceProvider.java
* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/commonjs/module/provider/SoftCachingModuleScriptProvider.java
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* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/commonjs/module/ScriptStackElement.java
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jar/org/mozilla/javascript/tools/idswitch/FileBody.java
* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/NativeMath.java
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* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/ast/KeywordLiteral.java
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1.754 reindex-client 6.8.5

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* /opt/cola/permits/1106732871_1605662075.52/0/netty-codec-http-4-1-53-final-sources-
  jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java
* /opt/cola/permits/1106732871_1605662075.52/0/netty-codec-http-4-1-53-final-sources-
  jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java
* /opt/cola/permits/1106732871_1605662075.52/0/netty-codec-http-4-1-53-final-sources-
  jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java
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algorithms/src/main/java/edu/uci/ics/jung/algorithms/importance/RandomWalkSTBetweenness.java
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1.763 python-iniparse 0.4-6.ph3

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
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All Python releases are Open Source (see http://www.opensource.org for
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2.2 2.1.1 2001 PSF yes
2.1.2 2.1.1 2002 PSF yes
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org.wildfly.extension.messaging.activemq.jms.WildFlyRecoveryRegistry

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/**
** Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
* 
* <h3>Sub-types</h3>
* 
* [{@link ChannelHandler}] itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
* <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
* <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
* <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <h3>The context object</h3>
* 
* A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext]
* object. A [@link ChannelHandler] is supposed to interact with the
* [@link ChannelPipeline] it belongs to via a context object. Using the
* context object, the [@link ChannelHandler] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using `[@link AttributeKey]s`) which is specific to the handler.

* <h3>State management</h3>

* A `[@link ChannelHandler]` often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:

* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends `[@link SimpleChannelInboundHandler]<Message>` {
*     <b>private boolean loggedIn;</b>
*     
*     { [@code @Override]
*         public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*             if (message instanceof LoginMessage) {
*                 authenticate((LoginMessage) message);
*                 <b>loggedIn = true;</b>
*             } else (message instanceof GetDataMessage) {
*                 if (<b>loggedIn</b>) {
*                     ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*                 } else {
*                     fail();
*                 }
*             }
*         }
*     }
*     ...
* }
* </pre>

* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:

* <pre>
* // Create a new handler instance per channel.
* // See {[@link ChannelInitializer#initChannel(Channel)]}.
* public class DataServerInitializer extends {[@link ChannelInitializer]&lt;[@link Channel]&gt;} {
*     { [@code @Override]
*         public void initChannel([@link Channel] channel) {
*             channel.pipeline().addLast("handler", <b>new DataServerHandler();</b>);
*         }
*     }
* </pre>
* <h4>Using `AttributeKey`s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use `AttributeKey`s which is provided by
* `{@link ChannelHandlerContext}`:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends `{@link SimpleChannelInboundHandler}&lt;{@link Message}&gt; {[
*     private final `{@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         `{@link AttributeKey#valueOf(String)} AttributeKey.valueOf("auth");
*
*     {[@code @Override]
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         `{@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*         ...
*     }
* }<pre>
* Now that the state of the handler is attached to the `{@link ChannelHandlerContext}`, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends `{@link ChannelInitializer}&lt;{@link Channel}&gt; {[
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {[@code @Override]
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }<pre>
The `@Sharable` annotation

In the example above which used an `@link AttributeKey`, you might have noticed the `@code @Sharable` annotation.

If a `@link ChannelHandler` is annotated with the `@code @Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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<!-- Schema for the SOAP/1.1 envelope

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Original W3C files; http://www.w3.org/2001/06/soap-envelope

Changes made:
- reverted namespace to http://schemas.xmlsoap.org/soap/envelope/
- reverted mustUnderstand to only allow 0 and 1 as lexical values
- made encodingStyle a global attribute 20020825
- removed default value from mustUnderstand attribute declaration

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<!--
W3C XML Schema defined in the Web Services Addressing 1.0 specification
http://www.w3.org/TR/ws-addr-core

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configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c7cbf2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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1.777 commons-dbcp 2.7.0

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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> >
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> >
We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement: "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez.”

Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

---

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*   "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
*   Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.782 jsp 1.0.3.Final
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Version 2, June 1991

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  */opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1.5.0-
  jar/org/apache/velocity/runtime/resource/util/StringResourceRepository.java
  */opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1.5.0-
  jar/org/apache/velocity/runtime/resource/loader/FileResourceLoader.java
  */opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1.5.0-
  jar/org/apache/velocity/Template.java
  */opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1.5.0-
  jar/org/apache/velocity/runtime/resource/loader/StringResourceLoader.java
  */opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1.5.0-
  jar/org/apache/velocity/runtime/ResourceManagerImpl.java
  */opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1.5.0-
  jar/org/apache/velocity/runtime/RuntimeConstants.java
  */opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1.5.0-
  jar/org/apache/velocity/io/UnicodeInputStream.java
  */opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1.5.0-
  jar/org/apache/velocity/runtime/resource/util/StringResourceRepositoryImpl.java
  */opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1.5.0-
  jar/org/apache/velocity/runtime/resource/ResourceManagerImpl.java
  */opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1.5.0-
  jar/org/apache/velocity/runtime/log/LogChute.java

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/*
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 * software distributed under the License is distributed on an
 * "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
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 * specific language governing permissions and limitations
 * under the License.
 */

/**
 * Stores the event handlers. Event handlers can be assigned on a per
 * VelocityEngine instance basis by specifying the class names in the
 * velocity.properties file. Event handlers may also be assigned on a per-page
 * basis by creating a new instance of EventCartridge, adding the event
 * handlers, and then calling attachToContext. For clarity, it's recommended
 * that one approach or the other be followed, as the second method is primarily
 * presented for backwards compatibility.
 *
 * <p>
 * Note that Event Handlers follow a filter pattern, with multiple event
 * handlers allowed for each event. When the appropriate event occurs, all the
 * appropriate event handlers are called in the sequence they were added to the
 * Event Cartridge. See the javadocs of the specific event handler interfaces
 * for more details.
 *
 * @author <a href="mailto:wglass@forio.com">Will Glass-Husain</a>
 * @author <a href="mailto:geirm@optonline.net">Geir Magnusson Jr.</a>
 * @author <a href="mailto:j_a_fernandez@yahoo.com">Jose Alberto Fernandez</a>
 * @version $Id: EventCartridge.java 470256 2006-11-02 07:20:36Z wglass $
 */

Found in path(s):
/*
 /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-jar/org/apache/velocity/app/event/EventCartridge.java
No license file was found, but licenses were detected in source scan.
*/

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/*@bgen(jjtree) Generated By:JJTree: Do not edit this line.*/
/Users/hgschmie/scratch/velocity/engine/src/java/org/apache/velocity/runtime/parser/Parser.jj */
/*@egen*//*
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* KIND, either express or implied. See the License for the
* specific language governing permissions and limitations
* under the License.
*/

/*
* NOTE : please see documentation at bottom of this file. (It was placed there its tiring
* to always have to page past it... :)
*/

options
/**
 * The parser must be non-static in order for the
 * above option to work, otherwise the parser value
 * is passed in as null, which isn't all the useful ;)
 */
STATIC=false;

/*
 * Declare that we are accepting unicode input and
 * that we are using a custom character stream class
 * Note that the char stream class is really a slightly
 * modified ASCII_CharStream, as it appears we are safe
 * because we only deal with pre-encoding-converted
 * Readers rather than raw input streams.
 */
UNICODE_INPUT=true;
USER_CHAR_STREAM=true;

/*
 * for debugging purposes. Keep false
 */
DEBUG_PARSER=false;
DEBUG_TOKEN_MANAGER=false;

PARSER_BEGIN(Parser)
package org.apache.velocity.runtime.parser;

import java.io.*;
import java.util.*;
import org.apache.velocity.runtime.RuntimeServices;
import org.apache.velocity.runtime.parser.node.*;
import org.apache.velocity.runtime.directive.Directive;
import org.apache.velocity.runtime.directive.Macro;
import org.apache.velocity.runtime.directive.MacroParseException;
import org.apache.velocity.util.StringUtils;

/**
 * This class is responsible for parsing a Velocity
 * template. This class was generated by JavaCC using
 * the JJTree extension to produce an Abstract
 * Syntax Tree (AST) of the template.
 *
 * Please look at the Parser.jjt file which is
 * what controls the generation of this class.
 */
public class Parser implements ParserTreeConstants {
  protected JJTParserState jjtree = new JJTParserState();

  private Hashtable directives = new Hashtable(0);

  String currentTemplateName = "";

  VelocityCharStream velcharstream = null;

  private RuntimeServices rsvc = null;

  public Parser( RuntimeServices rs) {
    this(   new VelocityCharStream( 
      new ByteArrayInputStream("\n".getBytes()), 1, 1 ));

    velcharstream = new VelocityCharStream( 
      new ByteArrayInputStream("\n".getBytes()), 1, 1 );

    // and save the RuntimeServices

    / * and save the RuntimeServices */
/**
 * This was also added to allow parsers to be
 * re-usable. Normal JavaCC use entails passing an
 * input stream to the constructor and the parsing
 * process is carried out once. We want to be able
 * to re-use parsers: we do this by adding this
 * method and re-initializing the lexer with
 * the new stream that we want parsed.
 */
public SimpleNode parse( Reader reader, String templateName )
    throws ParseException
{
    SimpleNode sn = null;

    currentNodeName = templateName;

    try
    {
        token_source.clearStateVars();

        /*
         * reinitialize the VelocityCharStream
         * with the new reader
         */
        velcharstream.ReInit( reader, 1, 1 );

        /*
         * now reinit the Parser with this CharStream
         */
        ReInit( velcharstream );

        /*
         * do that voodoo...
         */
        sn = process();
    }
    catch (MacroParseException mee)
    {
        /*
         * thrown by the Macro class when something is amiss in the
         * Macro specification
         */
        rsvc.getLog().error("Parser Error: #macro() : " + templateName, mee);
        throw mee;
    }
}
catch (ParseException pe)
{
    rsvc.getLog().error("Parser Exception: " + templateName, pe);
    throw new TemplateParseException (pe.currentToken,
    pe.expectedTokenSequences, pe.tokenImage, currentTemplateName);
}
catch (TokenMgrError tme)
{
    throw new ParseException("Lexical error: " + tme.toString());
}
catch (Exception e)
{
    rsvc.getLog().error("Parser Error: " + templateName, e);
}

currentTemplateName = "";

return sn;

/**
 * This method sets the directives Hashtable
 */
public void setDirectives(Hashtable directives)
{
    this.directives = directives;
}

/**
 * This method gets a Directive from the directives Hashtable
 */
public Directive getDirective(String directive)
{
    return (Directive) directives.get(directive);
}

/**
 * This method finds out of the directive exists in the directives
 * Hashtable.
 */
public boolean isDirective(String directive)
{
    return directives.containsKey(directive);
}
* Produces a processed output for an escaped control or
* pluggable directive
*/
private String escapedDirective(String strImage)
{
    int iLast = strImage.lastIndexOf(\\);

    String strDirective = strImage.substring(iLast + 1);

    boolean bRecognizedDirective = false;

    /*
    * is this a PD or a control directive?
    */
    if (isDirective(strDirective.substring(1)))
    {
        bRecognizedDirective = true;
    } else if (rsvc.isVelocimacro(strDirective.substring(1), currentTemplateName))
    {
        bRecognizedDirective = true;
    } else
    {
        /* order for speed? */
        if (strDirective.substring(1).equals("if")
            || strDirective.substring(1).equals("end")
            || strDirective.substring(1).equals("set")
            || strDirective.substring(1).equals("else")
            || strDirective.substring(1).equals("elseif")
            || strDirective.substring(1).equals("stop")
        )
        {
            bRecognizedDirective = true;
        }
    }

    /*
    * if so, make the proper prefix string (let the escapes do their thing..)
    * otherwise, just return what it is..
    */
    if (bRecognizedDirective)
    {
        return (strImage.substring(0,iLast/2) + strDirective);
    } else
    {
        return (strImage);
    }
TOKEN_MGR_DECLS:
{
    private int fileDepth = 0;
    private int lparen = 0;
    private int rparen = 0;
    Stack stateStack = new Stack();
    public boolean debugPrint = false;
    private boolean inReference;
    public boolean inDirective;
    private boolean inComment;
    public boolean inSet;

    /**
     * pushes the current state onto the 'state stack',
     * and maintains the parens counts
     * public because we need it in PD & VM handling
     *
     * @return boolean : success. It can fail if the state machine
     * gets messed up (do don't mess it up :)
     */
    public boolean stateStackPop()
    {
        Hashtable h;

        try
        {
            h = (Hashtable) stateStack.pop();
        } catch( EmptyStackException e)
        {
            lparen=0;
            SwitchTo(DEFAULT);
            return false;
        }

        if( debugPrint )
            System.out.println(
                " stack pop (" + stateStack.size() + ") : lparen=" +
                ( (Integer) h.get("lparen")).intValue() +
                " newstate=" + ( (Integer) h.get("lexstate")).intValue() );

        return true;
    }
}
lparen = ( (Integer) h.get("lparen")).intValue();
rparen = ( (Integer) h.get("rparen")).intValue();

SwitchTo( ( (Integer) h.get("lexstate")).intValue() );

    return true;
}

/**
 * pops a state off the stack, and restores paren counts
 * @return boolean : success of operation
 */
public boolean stateStackPush()
{
    if( debugPrint )
        System.out.println(" (" + stateStack.size() + ") pushing cur state : " +
                         curLexState);

    Hashtable h = new Hashtable();

    h.put("lexstate", new Integer( curLexState ) );
    h.put("lparen", new Integer( lparen ));
    h.put("rparen", new Integer( rparen ));

    lparen = 0;

    stateStack.push( h );

    return true;
}

/**
 * Clears all state variables, resets to
 * start values, clears stateStack.  Call
 * before parsing.
 * @return void
 */
public void clearStateVars()
{
    stateStack.clear();

    lparen = 0;
    rparen = 0;
    inReference = false;
    inDirective = false;
    inComment = false;
inSet = false;

return;
}

/**
 * handles the dropdown logic when encountering a RPAREN
 */
private void RPARENHandler()
{

/**
 * Ultimately, we want to drop down to the state below
 * the one that has an open (if we hit bottom (DEFAULT),
 * that's fine. It's just text schmoo.
 */

boolean closed = false;

if (inComment)
    closed = true;

while( !closed )
{
    /*
    * look at current state. If we haven't seen a lparen
    * in this state then we drop a state, because this
    * lparen clearly closes our state
    */

    if( lparen > 0)
    {
        /*
        * if rparen + 1 == lparen, then this state is closed.
        * Otherwise, increment and keep parsing
        */

        if( lparen == rparen + 1)
        {
            stateStackPop();
        }
        else
        {
            rparen++;
        }

        closed = true;
    }
    else
    {
/*
 * now, drop a state
 */

if(!stateStackPop())
    break;
}

/*
 * Tokens
 *
 * Note : we now have another state, REFMODIFIER. This is sort of a
 * type of REFERENCE state, simply use to use the DIRECTIVE token
 * set when we are processing a $foo.bar() construct
 *
 *------------------------------------------------------------------------*/

<DIRECTIVE, REFMOD2>
TOKEN:
{
    <LBRACKET: "[">
    | <RBRACKET: "]">  
    | <COMMA: ",">   
}

<DIRECTIVE, REFMOD2>
TOKEN:
{
    <DOUBLEDOT : "..">  
}

<DIRECTIVE, REFMOD2>
TOKEN:
{
    <COLON : ":">  
}

<DIRECTIVE, REFMOD2>
TOKEN:
{
    <LEFTCURLEY : "{">
    | <RIGHTCURLEY : "}">  
}
<DIRECTIVE,REFMODIFIER>
TOKEN:
{
  <LPAREN: "(">
    {
      if (!inComment)
        lparen++;

      /*
      * If in REFERENCE and we have seen the dot, then move
      * to REFMOD2 -> Modifier()
      */

      if (curLexState == REFMODIFIER )
        SwitchTo(REFMOD2);
    }
  }

  /*
  * we never will see a ')' in anything but DIRECTIVE and REFMOD2.
  * Each have their own
  */
  <DIRECTIVE>
  TOKEN:
  {
    /*
    * We will eat any whitespace upto and including a newline for directives
    */
    <RPAREN: ")" ( ( " " | "\t" )# ( "\n" | "\r" | "\r\n" ))?>
      {
        RPARENHandler();
      }
  }

  <REFMOD2>
  TOKEN:
  {
    /*
    * in REFMOD2, we don't want to bind the whitespace and 
     like we
    * do when closing a directive.
    */
    <REFMOD2_RPAREN: ")">}
      {
        /*
        * need to simply switch back to REFERENCE, not drop down the stack
        * because we can (infinitely) chain, ala
        */
    }
}
* $foo.bar().blargh().woogie().doogie()
*/

SwitchTo( REFERENCE );
}
}

/*-------------------------------
 * escape "\" handling for the built-in directives
 *--------------------------------*/

TOKEN:
{
 /*
 * We have to do this, because we want these to be a Text node, and
 * whatever follows to be peer to this text in the tree.
 * We need to touch the ASTs for these, because we want an even # of \s
 * to render properly in front of the block
 * This is really simplistic. I actually would prefer to find them in
 * grammatical context, but I am neither smart nor rested, a receipe
 * for disaster, another long night with Mr. Parser, or both.
 */

<ESCAPE_DIRECTIVE :  (<DOUBLE_ESCAPE>)* \#" <WORD> >
}

/*
 * needed because #set is so wacky in it's desired behavior. We want set
 * to eat any preceeding whitespace so it is invisible in formatting.
 * (As it should be.) If this works well, I am going to chuck the whole MORE:
 * token abomination.
 */

TOKEN:
{
<SET_DIRECTIVE: (\s?"|\t)*(#set|#{set}) (\s?"|\t)* (""
} if (! inComment)
{
inDirective = true;

if ( debugPrint )
    System.out.print("#set : going to "+ DIRECTIVE);

stateStackPush();
inSet = true;
SwitchTo(DIRECTIVE);
}

/*
 * need the LPAREN action
 */

if (!inComment)
{
  lparen++;

  /*
   * If in REFERENCE and we have seen the dot, then move
   * to REFMOD2 -> Modifier()
   */

  if (curLexState == REFMODIFIER )
    SwitchTo(REFMOD2);
}

<*> MORE :
{
  /*
   * Note : DOLLARBANG is a duplicate of DOLLAR. They must be identical.
   */

  <DOLLAR: ("\")* "$">
  {
    if (! inComment)
    {
      /*
       * if we find ourselves in REFERENCE, we need to pop down
       * to end the previous ref
       */

      if (curLexState == REFERENCE)
        {
          inReference = false;
          stateStackPop();
        }

      inReference = true;

      if ( debugPrint )
System.out.print("$ : going to " + REFERENCE);

stateStackPush();
SwitchTo(REFERENCE);
}

$ ! : going to " + REFERENCE;
stateStackPush();
SwitchTo(REFERENCE);

if (! inComment)
{
    /*
     * if we find ourselves in REFERENCE, we need to pop down
     * to end the previous ref
     */

    if (curLexState == REFERENCE)
    {
        inReference = false;
        stateStackPop();
    }
    inReference = true;

    if (debugPrint)
        System.out.print("$! : going to " + REFERENCE);

    stateStackPush();
    SwitchTo(REFERENCE);
}

<"$" ~"$"ivating>
{
    input_stream.backup(1);
    inComment = true;
    stateStackPush();
    SwitchTo(IN_NORMALCOMMENT);
}

"$"ivating
{
    inComment = true;
    stateStackPush();
    SwitchTo(IN_NORMALCOMMENT);
}

<"#"
if (! inComment)
{
	/*
	* We can have the situation where \#if($foo)$foo#end.
	* We need to transition out of REFERENCE before going to DIRECTIVE.
	* I don't really like this, but I can't think of a legal way
	* you are going into DIRECTIVE while in REFERENCE. -gmj
	*/
	if (curLexState == REFERENCE || curLexState == REFMODIFIER )
	{
		inReference = false;
		stateStackPop();
	}
	inDirective = true;

	if ( debugPrint )
		System.out.print("# : going to " + DIRECTIVE );

	stateStackPush();
	SwitchTo(PRE_DIRECTIVE);
}
}

// treat the single line comment case separately
// to avoid ##<EOF> errors
<**>
TOKEN :
{
<SINGLE_LINE_COMMENT_START: "##"> 
{
	if (!inComment)
	{
		if (curLexState == REFERENCE)
		{
			inReference = false;
			stateStackPop();
		}

		inComment = true;
		stateStackPush();
		SwitchTo(IN_SINGLE_LINE_COMMENT);
	}
	}
}
TOKEN :
{
    <DOUBLE_ESCAPE : "\\\">
    |  <ESCAPE: "\\">  
    |  <TEXT: (~"$", ",", "\\")+ >  
}

/* -----------------------------------------------------------------------
*   _COMMENT Lexical tokens
*-----------------------------------------------------------------------*/

<IN_SINGLE_LINE_COMMENT>
TOKEN :
{
    <SINGLE_LINE_COMMENT: "\n" | "\r" | "\r\n">  
    {
        inComment = false;
        stateStackPop();
    }
}

<IN_FORMAL_COMMENT>
TOKEN :
{
    <FORMAL_COMMENT: ":#" >  
    {
        inComment = false;
        stateStackPop();
    }
}

<IN_MULTI_LINE_COMMENT>
TOKEN :
{
    <MULTI_LINE_COMMENT: ":#" >  
    {
        inComment = false;
        stateStackPop();
    }
}

<IN_SINGLE_LINE_COMMENT,IN_FORMAL_COMMENT,IN_MULTI_LINE_COMMENT>
SKIP :
{
}
/* -----------------------------------------------------------------------
*  DIRECTIVE Lexical State (some of it, anyway)
*  - if we are in DIRECTIVE and haven't seen ( yet, then also drop out.
*    don't forget to account for the beloved yet wierd #set
*  - finally, if we are in REFMOD2 (remember : $foo.bar() then " is ok!
* ----------------------------------------------------------------------- */

<DIRECTIVE,REFMOD2>
TOKEN:
{
  <WHITESPACE : ([" "."
"])+ >
}

<DIRECTIVE,REFMOD2>
TOKEN :
{
  // <STRING_LITERAL: ( "" ( ~[""","\n","\r"] )* "" ) | ( "" ( ~[""","\n","\r"] )* "" ) >
  < STRING_LITERAL: ("\"
    ( (-[""]")
      | ("
        ([n",t",b",s",f",\",",","\r",","\t"]))
      | ([0]-"7"] )
      [0]-"7"] )
      [0]-"7"]
      )

      | (""
          (""(""*) "\n")
        )
      | ("
        (-[""])
        | ("
            (""(""*) "\n")
          )
      | ("

      )
  >
}
/* - if we are in DIRECTIVE and haven't seen ( yet, then also drop out.
* don't forget to account for the beloved yet wierd #set
* - finally, if we are in REFMOD2 (remember : $foo.bar() then " is ok!
* */
if ( curLexState == DIRECTIVE && !inSet && lparen == 0)
    stateStackPop();
}

<REFERENCE,DIRECTIVE,REFMODIFIER,REFMOD2>
TOKEN:
{
    <TRUE: "true">
    | <FALSE: "false">
}

<DIRECTIVE>
TOKEN :
{
    <NEWLINE: "\n" | "\r" | "\r\n" >
{
    if ( debugPrint )
        System.out.println(" NEWLINE :");
    stateStackPop();
    if (inSet)
        inSet = false;
    if (inDirective)
        inDirective = false;
}
}

<DIRECTIVE>
TOKEN :
{
    <MINUS: "-">
    | <PLUS: "+">
    | <MULTIPLY: "*">
    | <DIVIDE: "/">
    | <MODULUS: "%">
    | <LOGICAL_AND: "&&" | "and" >
    | <LOGICAL_OR: "||" | "or" >
    | <LOGICAL_LT: "<" | "lt" >
    | <LOGICAL_LE: "\<" | "le" >
    | <LOGICAL_GT: ">" | "gt" >
    | <LOGICAL_GE: ">=\" | "ge" >
    | <LOGICAL_EQUALS: "\=" | "eq" >
    | <LOGICAL_NOT_EQUALS: "\!\=" | "ne" >
    | <LOGICAL_NOT: "\!" | "not" >
<PRE_DIRECTIVE
TOKEN :  
{
  <END: ( "end" ( ( " " | \t" )* ( \n" | \r" | \rn" ) )?  
   | ("{end}" ( ( " " | \t" )* ( \n" | \r" | \rn" ) )? )  
   |
   inDirective = false;
   stateStackPop();
}

| <IF_DIRECTIVE: "if" | "{if}">
{  
  SwitchTo(DIRECTIVE);
}

| <ELSEIF_DIRECTIVE: "elseif" | "{elseif}">
{  
  SwitchTo(DIRECTIVE);
}

| <ELSE_DIRECTIVE: ( "else" ( ( " " | \t" )* ( \n" | \r" | \rn" ) )?  
   | ("{else}" ( ( " " | \t" )* ( \n" | \r" | \rn" ) )? )  
   |
   inDirective = false;
   stateStackPop();
}

| <STOP_DIRECTIVE: "stop" | "{stop}">
{  
  inDirective = false;
  stateStackPop();
}

</PRE_DIRECTIVE,DIRECTIVE,REFMOD2>
TOKEN:
{
  <#DIGIT: [ "0"-"9" ] >

/*
 * treat FLOATING_POINT_LITERAL and INTEGER_LITERAL differently as a range can only handle integers.
 */

/**
* Note -- we also define an integer as ending with a double period,
* in order to avoid 1..3 being defined as floating point (1.) then a period, then a integer
*/

| <INTEGER_LITERAL: ("-"? (<DIGIT>)+ (".."? >

| { /*
  * Remove the double period if it is there
  */
  if (matchedToken.image.endsWith("..")) {
    input_stream.backup(2);
    matchedToken.image = matchedToken.image.substring(0,matchedToken.image.length()-2);
  }
  */
  * check to see if we are in set
  * ex.  #set $foo = $foo + 3
  * because we want to handle the \n after
  */
  if ( lparen == 0 && !inSet && curLexState != REFMOD2)
  { stateStackPop();
  }
}

| <FLOATING_POINT_LITERAL:
  ("-"? (<DIGIT>)+ "." (<DIGIT>)* (<EXPONENT>)? | ("-"? "." (<DIGIT>)+ (<EXPONENT>)? | ("-"? (<DIGIT>)+ <EXPONENT>

| > { /*
  * check to see if we are in set
  * ex.  #set $foo = $foo + 3
  * because we want to handle the \n after
  */
  if ( lparen == 0 && !inSet && curLexState != REFMOD2)
  { stateStackPop();
  }
  }

| | <#EXPONENT: ["e","E"] (["+","-"? (["0"-"9"])+ >

}
/* -----------------------------------------------------------------------
* REFERENCE Lexical States
* This is more than a single state, because of the structure of
* the VTL references. We use three states because the set of tokens
* for each state can be different.
* $foo.bar( "arg" )
* ^   ^   ^
* |   |   |
* ----------- > REFERENCE : state initiated by the '$' character. Continues
* |   |   | until end of the reference, or the . character.
* |------- > REFMODIFIER : state switched to when the <DOT> is encountered.
* |       note that this is a switch, not a push. See notes at bottom
* | re stateStack.
* |--- > REFMOD2 : state switch to when the LPAREN is encountered.
* again, this is a switch, not a push.
* */

/* ----------------------------------------------- */
input_stream.backup(1);

/*
 * and munge the <DOT> so we just get a . when we have normal text that
 * looks like a ref.ident
 */

matchedToken.image = ".";

if ( debugPrint )
    System.out.print("DOT : switching to " + REFMODIFIER);
    SwitchTo(REFMODIFIER);

}

<TOKEN>
<REFERENCE,REFMODIFIER>

<TOKEN>
<REFERENCE,REFMODIFIER,REFMOD2>

<SPECIAL_TOKEN>

<REFERENCE_TERMINATOR: ~[

/*
 * push every terminator character back into the stream
 */

input_stream.backup(1);

inReference = false;

if ( debugPrint )
    System.out.print("REF_TERM : ");
    stateStackPop();
}

<PRE_DIRECTIVE>
SPECIAL_TOKEN:
{
  <DIRECTIVE_TERMINATOR: ~[]>
  
    if (debugPrint)
    System.out.print("DIRECTIVE_TERM:");

    input_stream.backup(1);
    inDirective = false;
    stateStackPop();
  }
}

/**
 * This method is what starts the whole parsing
 * process. After the parsing is complete and
 * the template has been turned into an AST,
 * this method returns the root of AST which
 * can subsequently be traversed by a visitor
 * which implements the ParserVisitor interface
 * which is generated automatically by JavaCC
 */
SimpleNode process() { /*@bgen(jjtree) process */
  ASTProcess jjtn000 = new ASTProcess(this, JJTPROCESS);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
  /*@egen*/
}
/*@bgen(jjtree) process */
try {
/*@egen*/
( Statement() )* <EOF>/*@bgen(jjtree)*/
{
  jjtree.closeNodeScope(jjtn000, true);
  jjtc000 = false;
}
/*@egen*/
{ return jjtn000; }/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
  if (jjte000) {
    jjtree.clearNodeScope(jjtn000);
    jjtc000 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte000 instanceof RuntimeException) {
    throw (RuntimeException)jjte000;
  }
  if (jjte000 instanceof ParseException) {

throw (ParseException)jjte000;
}
throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
{
    @egen*/
}

/**
 * These are the types of statements that
 * are acceptable in Velocity templates.
 */
void Statement() : {}
{
    IfStatement()
    | StopStatement()
    | LOOKAHEAD(2) Reference()
    | Comment()
    | SetDirective()
    | EscapedDirective()
    | Escape()
    | Directive()
    | Text()
}

/**
 * used to separate the notion of a valid directive that has been
 * escaped, versus something that looks like a directive and
 * is just schmoo. This is important to do as a separate production
 * that creates a node, because we want this, in either case, to stop
 * the further parsing of the Directive() tree.
 */
    ASTEscapedDirective jjtn000 = new ASTEscapedDirective(this, JJTESCAPEDDIRECTIVE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
    } {/*@bgen(jjtree) EscapedDirective */
    try {
        /*@egen*/
        {
            Token t = null;
        }
        t = <ESCAPE_DIRECTIVE>/*@bgen(jjtree)*/
void Escape()asury*/
{
    Token t = null;
    int count = 0;
    boolean control = false;
}

( LOOKAHEAD(2)  t = <DOUBLE_ESCAPE>
{
    count++;
}
)+/*@bgen(jjtree)*/
{
    jtree.closeNodeScope(jjtn000, true);
    jjtc000 = false;
/*@egen*/
{
    /*
    * first, check to see if we have a control directive
    */
    switch(t.next.kind) {
        case IF_DIRECTIVE:
        case ELSE_DIRECTIVE:
        case ELSEIF_DIRECTIVE:
        case END:
        case STOP_DIRECTIVE:
            control = true;
            break;
    }

    /*
    * if that failed, lets lookahead to see if we matched a PD or a VM
    */
    if( isDirective( t.next.image.substring(1))
        control = true;
    else if ( rsvc.isVelocimacro( t.next.image.substring(1), currentTemplateName))
        control = true;

    jjtn000.val = "";
    for( int i = 0; i < count; i++)
        jjtn000.val += (control ? "\\" : "\\\\");
}/*@bgen(jjtree)*/
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}/*@e gen*/

void Comment() : {/*@bgen(jjtree) Comment */
    ASTComment jjtn000 = new ASTComment(this, JJTCOMMENT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
}/*@e gen*/

{/*@bgen(jjtree) Comment */
    try {
        <SINGLE_LINE_COMMENT_START> ( <SINGLE_LINE_COMMENT> ) ?
}/*@e gen*/
void FloatingPointLiteral() {/*@bgen(jjtree) FloatingPointLiteral */
    ASTFloatingPointLiteral jjtn000 = new ASTFloatingPointLiteral(this, JJTFLOATINGPOINTELITERAL);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    //@egen/*
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
} /*@egen*/

void IntegerLiteral() {/*@bgen(jjtree) IntegerLiteral */
    ASTIntegerLiteral jjtn000 = new ASTIntegerLiteral(this, JJTINTEGERLITERAL);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    //@egen/*
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
} /*@egen*/

void StringLiteral() {/*@bgen(jjtree) StringLiteral */
    ASTStringLiteral jjtn000 = new ASTStringLiteral(this, JJTSTRINGLITERAL);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
```java
/*@egen*/
/*@bgen(jjtree) StringLiteral */
try {
  <STRING_LITERAL>/*@bgen(jjtree)*/
} finally {
  if (jjtc000) {
    jjtree.closeNodeScope(jjtn000, true);
  }
}
/*@egen*/

/**
 * This method corresponds to variable references in Velocity templates.
 * The following are examples of variable references that may be found in a
 * template:
 * *
 * $foo
 * $bar
 * *
 */
void Identifier() : {/*@bgen(jjtree) Identifier */
  ASTIdentifier jjtn000 = new ASTIdentifier(this, JJTIDENTIFIER);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
 /*@egen*/
  {/*@bgen(jjtree) Identifier */
    try {
      <IDENTIFIER>/*@bgen(jjtree)*/
    } finally {
      if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
      }
    }
  }
 /*@egen*/
}/*@bgen(jjtree) Identifier */

void Word() : {/*@bgen(jjtree) Word */
  ASTWord jjtn000 = new ASTWord(this, JJTWORD);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
 /*@egen*/
  {/*@bgen(jjtree) Word */
    try {
  ```
int DirectiveArg() : {} {
    Reference()
    {
        return ParserTreeConstants.JJTREFERENCE;
    }
    Word()
    {
        return ParserTreeConstants.JJTWORD;
    }
    StringLiteral()
    {
        return ParserTreeConstants.JJSTRINGLITERAL;
    }
    IntegerLiteral()
    {
        return ParserTreeConstants.JJTINTEGERLITERAL;
    }
    
    | LOOKAHEAD( <LBRACKET> [<WHITESPACE>] ( Reference() | IntegerLiteral() ) <DOUBLEDOT> ) IntegerRange()
    {
        return ParserTreeConstants.JTINTEGRERRANGE;
    }
    FloatingPointLiteral()
    {
        return ParserTreeConstants.JTFLOATINGPOINLITERAL;
    }
    Map()
    {
        return ParserTreeConstants.JTMAP;
    }
}
objectArray()
{
  return ParserTreeConstants.JJOBJECTARRAY;
}

true()
{
  return ParserTreeConstants.JJTRUE;
}

false()
{
  return ParserTreeConstants.JJTFALSE;
}

/**
 * Supports the Pluggable Directives
 * #foo( arg+ )
 */

SimpleNode Directive()
{
  @{bgen(jjtree) Directive}
  ASTDirective jjtn000 = new ASTDirective(this, JJTDIRECTIVE);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
  @{egen}
  Token t = null;
  int argType;
  int argPos = 0;
  Directive d;
  int directiveType;
  boolean isVM = false;
  boolean doItNow = false;
  }
  @{eegen}
  }

  /*
   * note that if we were escaped, that is now handled by
   * EscapedDirective()
   */

  ((t = <WORD>) | (t = <BRACKETED_WORD>))
  {
    String directiveName;
    if (t.kind == ParserConstants.BRACKETED_WORD)
    {
      directiveName = t.image.substring(2,t.image.length() - 1);
    }
else
{
    directiveName = t.image.substring(1);
}

d = (Directive) directives.get(directiveName);

/**
 * Velocimacro support : if the directive is macro directive
 * then set the flag so after the block parsing, we add the VM
 * right then. (So available if used w/in the current template )
 */

if (directiveName.equals("macro"))
{
    doItNow = true;
}

/**
 * set the directive name from here. No reason for the thing to know
 * about parser tokens
 */

jjtn000.setDirectiveName(directiveName);

if ( d == null)
{
    /*
     * if null, then not a real directive, but maybe a Velocimacro
     */

    isVM = rsvc.isVelocimacro(directiveName, currentTemplateName);

    if (!isVM)
    {
        token_source.stateStackPop();
        token_source.inDirective = false;
        return jjtn000;
    }

    /*
     * Currently, all VMs are LINE directives
     */

    directiveType = Directive.LINE;
}
else

{ 
directiveType = d.getType();
}

/*
 * now, switch us out of PRE_DIRECTIVE
 */
token_source.SwitchTo(DIRECTIVE);

argPos = 0;
}

/*
 * if this is indeed a token, match the #foo ( arg ) pattern
 */

[<WHITESPACE>] <LPAREN> ( LOOKAHEAD(2) [<WHITESPACE>] [<COMMA> [<WHITESPACE>]])

argType = DirectiveArg()
{
  if (argType == ParserTreeConstants.JJTWORD)
  {
    if (doItNow && argPos == 0)
    {
      /* if a VM and it's the 0th arg... ok */
    ;
    }
    else if( (t.image.equals("#foreach") || t.image.equals("#{foreach}") ) && argPos == 1)
    {
      /* if a foreach and it's the 2nd arg ok */
    ;
    }
    else
    {
      throw new MacroParseException("Invalid arg "+ argPos + " in "
        + (isVM ? "VM " : "directive ")
        + t.image, currentTemplateName, t);
    }
  }
  else
  {
    if (doItNow && argPos == 0)
    {
      /* if a VM and it's the 0th arg, not ok */
    }
throw new MacroParseException("Invalid first arg" + " in macro() directive - must be a" + " word token (no \ or \" surrounding)", currentTemplateName, t);
}
}
argPos++;
}

/* [<WHITESPACE>] <RPAREN>
{
 if (directiveType == Directive.LINE)
 {
  return jjtn000;
 }
}/*@bgen(jjtree) Block */
{
ASTBlock jjtn001 = new ASTBlock(this, JJTBLOCK);
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
try {
/*@egen*/
/
*  and the following block if the PD needs it
*/

( Statement() )+/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
 if (jjtc001) {
  jjtree.clearNodeScope(jjtn001);
  jjtc001 = false;
 } else {
  jjtree.popNode();
 }
if (jjte001 instanceof RuntimeException) {
  throw (RuntimeException)jjte001;
 }
if (jjte001 instanceof ParseException) {
  throw (ParseException)jjte001;
 }
throw (Error)jjte001;
} finally {
 if (jjtc001) {
  jjtree.closeNodeScope(jjtn001, true);
if (doItNow) {
    Macro.processAndRegister(rsvc, t, jjtn000, currentTemplateName);
}

return jjtn000;
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/@egen*/

/**
 * for creating a map in a #set
 *
 * #set($foo = {$foo : $bar, $blargh : $thingy})
 */

void Map() : {/*@bgen(jjtree) Map */
    ASTMap jjtn000 = new ASTMap(this, JJTMAP);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
}

/@bgen(jjtree) Map /*/ try {
    /*@egen*/
    <LEFT_CURLEY>
    (LOOKAHEAD(2) Parameter() <COLON> Parameter() (<COMMA> Parameter() <COLON> Parameter()])* |
    [ <WHITESPACE> ]
    )<RIGHT_CURLEY>/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/

void ObjectArray() : {/*@bgen(jjtree) ObjectArray */
    ASTObjectArray jjtn000 = new ASTObjectArray(this, JJOBJECTARRAY);
    boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
{/*@bgen(jjtree) ObjectArray */
try {
/*@egen*/
 <LBRACKET> [ Parameter() ( <COMMA> Parameter() )* ] <RBRACKET>/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
if (jjtc000) {
    jjtree.clearNodeScope(jjtn000);
    jjtc000 = false;
} else {
    jjtree.popNode();
}
if (jjte000 instanceof RuntimeException) {
    throw (RuntimeException)jjte000;
}
if (jjte000 instanceof ParseException) {
    throw (ParseException)jjte000;
}
throw (Error)jjte000;
} finally {
if (jjtc000) {
    jjtree.closeNodeScope(jjtn000, true);
}
}
/*@egen*/

/**
 * supports the [n..m] vector generator for use in
 * the #foreach() to generate measured ranges w/o
 * needing explicit support from the app/servlet
 */
void IntegerRange() : {/*@bgen(jjtree) IntegerRange */
    ASTIntegerRange jjtn000 = new ASTIntegerRange(this, JJTINTEGERRANGE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
} /*@bgen(jjtree) IntegerRange */
try {
/*@egen*/
 <LBRACKET> [ <WHITESPACE> ]
 ( Reference() | IntegerLiteral() )
 [ <WHITESPACE> ] <DOUBLEDOT> [ <WHITESPACE> ]
 ( Reference() | IntegerLiteral() )
 [ <WHITESPACE> ] <RBRACKET>/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
if (jjtc000) {
    jjtree.clearNodeScope(jjtn000);
    jjtc000 = false;
} else {
    jjtree.popNode();
}
if (jjte000 instanceof RuntimeException) {
    throw (RuntimeException)jjte000;
}
if (jjte000 instanceof ParseException) {
    throw (ParseException)jjte000;
}
throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/

/**
 * This method has yet to be fully implemented
 * but will allow arbitrarily nested method
 * calls
 */
void Parameter() : {}
{
    [<WHITESPACE>]
    ( StringLiteral()
    | IntegerLiteral()
    | LOOKAHEAD( <LBRACKET> [<WHITESPACE>] ( Reference() | IntegerLiteral() ) [<WHITESPACE>] <DOUBLEDOT> ) IntegerRange()
    | Map()
    | ObjectArray()
    | True()
    | False()
    | Reference()
    | FloatingPointLiteral()
    )
    [ <WHITESPACE> ]
}

/**
 * This method has yet to be fully implemented
 * but will allow arbitrarily nested method
 */
void Method() : {/*@bgen(jjtree) Method */
    ASTMethod jjtn000 = new ASTMethod(this, JJTMETHOD);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
} /*@bgen(jjtree) Method */
try {
    /*@egen*/
    Identifier() <LPAREN> [ Parameter() ( <COMMA> Parameter() )* ] <REFMOD2_RPAREN>/*@bgen(jjtree)*/
    } catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte000 instanceof RuntimeException) {
            throw (RuntimeException)jjte000;
        }
        if (jjte000 instanceof ParseException) {
            throw (ParseException)jjte000;
        }
        throw (Error)jjte000;
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
    /*@egen*/
}

void Reference() : /*@bgen(jjtree) Reference */
    ASTReference jjtn000 = new ASTReference(this, JJTREFERENCE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/
} /*@bgen(jjtree) Reference */
try {
    /*@egen*/
    /* A reference is either ${<FOO>} or $<FOO>
    */
    
    <IDENTIFIER>
    (LOOKAHEAD(2) <DOT> (LOOKAHEAD(3) Method() | Identifier() ))*
void True() {/**<bgen(jjtree) True */
    ASTTrue jjtn000 = new ASTTrue(this, JJTTRUE);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /**<bgen(jjtree) True */
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
} /**<bgen(jjtree) True */

void False() {/**<bgen(jjtree) False */
}
ASTFalse jjtn000 = new ASTFalse(this, JJTFALSE);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
/*@bgen(jjtree) False */
try {
    jtn000 = new ASTFalse(this, JJTFALSE);
    jjtc000 = true;
jjtree.openNodeScope(jjtn000);
    try {
        /*@gen*/
        <FALSE>/*@bgen(jjtree)*/
    } finally {
        if (jjtc000) {
            jjtree.closeNodeScope(jjtn000, true);
        }
    }
/*@gen*/
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@gen*/

/**
 * This method is responsible for allowing
 * all non-grammar text to pass through
 * unscathed.
 */
void Text() : /*@bgen(jjtree) Text */
        ASTText jjtn000 = new ASTText(this, JJTTEXT);
        boolean jjtc000 = true;
        jjtree.openNodeScope(jjtn000);
        /*@gen*/
        try {
            /*@bgen(jjtree) Text */
            try {
                /*@bgen(jjtree) Text */
            } finally {
                if (jjtc000) {
                    jjtree.closeNodeScope(jjtn000, true);
                }
            }
        } finally {
            if (jjtc000) {
                jjtree.closeNodeScope(jjtn000, true);
            }
        }
/*@gen*/

/* -----------------------------------------------------------------------
void IfStatement() : /*@bgen(jjtree) IfStatement */
ASTIfStatement jjtn000 = new ASTIfStatement(this, JJTIFSTATEMENT);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@eigen*/
/*@bgen(jjtree) IfStatement */
try {
    /*@egen*/
    <IF_DIRECTIVE> [<WHITESPACE>] <LPAREN> Expression() <RPAREN>/*@bgen(jjtree) Block */
    {
        ASTBlock jjtn001 = new ASTBlock(this, JJTBLOCK);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        /*@egen*/
        ( Statement() )/*@bgen(jjtree)*/*
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, true);
        }
    }
    /*@egen*/
    [ LOOKAHEAD(1) ( ElseIfStatement() )+ ]
    [ LOOKAHEAD(1) ElseStatement() ]
    <END>/*@bgen(jjtree)*/*
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
jjtc000 = false;
} else {
    jjtree.popNode();
}
if (jjte000 instanceof RuntimeException) {
    throw (RuntimeException)jjte000;
}
if (jjte000 instanceof ParseException) {
    throw (ParseException)jjte000;
}
throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}
/*@egen*/
}

void ElseStatement() : {/*@bgen(jjtree) ElseStatement */
    ASTElseStatement jjtn000 = new ASTElseStatement(this, JJTELSESTATEMENT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
   /*@egen*/
}

<ELSE_DIRECTIVE>/*@bgen(jjtree) Block */
{
    ASTBlock jjtn001 = new ASTBlock(this, JJTBLOCK);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
}
try {
    /*@egen*/
    ( Statement() )*/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
    if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, true);
    }
}

/*@egen*/
/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}

/*@egen*/

void ElseIfStatement() : /*@bgen(jjtree) ElseIfStatement */
    ASTElseIfStatement jjtn000 = new ASTElseIfStatement(this, JJTELSEIFSTATEMENT);
    boolean jjtc000 = true;
    jjtree.openNodeScope(jjtn000);
    /*@egen*/

{/*@bgen(jjtree) ElseIfStatement */
    try {
        /*@egen*/
        <ELSEIF_DIRECTIVE> [<WHITESPACE>]
        <LPAREN> Expression() <RPAREN>/*@bgen(jjtree) Block /*@bgen(jjtree)*/
        {
            ASTBlock jjtn001 = new ASTBlock(this, JJTBLOCK);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
            try {
                /*@egen*/
                ( Statement() )/*@bgen(jjtree)*/
            }
        }
    }
}

}@egen*/
/*@bgen(jjtree)*/
void SetDirective() { /*@egen*//*@bgen(jjtree)*/
} catch (Throwable jjte000) {
    if (jjtc000) {
        jjtree.clearNodeScope(jjtn000);
        jjtc000 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
        jjtree.closeNodeScope(jjtn000, true);
    }
}

/*@egen*//*@bgen(jjtree)*/
void SetDirective() { /*@egen*/

/**
 * Currently support both types of set :
 * #set( expr )
 * #set expr
 */

ASTSetDirective jjtn000 = new ASTSetDirective(this, JJTSETDIRECTIVE);
boolean jjtc000 = true;
jjtree.openNodeScope(jjtn000);
/*@egen*/
/*@bgen(jjtree) SetDirective */
try {
/*@egen*/
<SET_DIRECTIVE>([<WHITESPACE>] Reference() [<WHITESPACE>] <EQUALS> Expression()<RPAREN>
{
/*
 * ensure that inSet is false. Leads to some amusing bugs...
 */

token_source.inSet = false;
}
[<NEWLINE>]/*@bgen(jjtree)*/
} catch (Throwable jjte000) {
  if (jjtc000) {
    jjtree.clearNodeScope(jjtn000);
    jjtc000 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte000 instanceof RuntimeException) {
    throw (RuntimeException)jjte000;
  }
  if (jjte000 instanceof ParseException) {
    throw (ParseException)jjte000;
  }
  throw (Error)jjte000;
} finally {
  if (jjtc000) {
    jjtree.closeNodeScope(jjtn000, true);
  }
}
/*@egen*/
*/

/**
 * This method corresponds to the #stop
 * directive which just simulates and EOF
 * so that parsing stops. The #stop directive
 * is useful for end-user debugging
 * purposes.
 */
void StopStatement()  : /*@bgen(jjtree) #Stop( 0) */
ASTStop jjtn000 = new ASTStop(this, JJTSTOP);
boolean jtc000 = true;
jtree.openNodeScope(jtn000);
/*@e gen*/
/*@b gen(jjtree) #Stop( 0) */
try {
/*@e gen*/
<STOP DIRECTIVE>/*@b gen(jjtree)*/
} finally {
if (jjtc000) {
    jjtree.closeNodeScope(jjtn000,  0);
}
}
/*@e gen*/

/* -----------------------------------------------------------------------
*   Expression Syntax
*  ----------------------------------------------------------------------*/
void Expression() : {/*@b gen(jjtree) Expression */
    ASTExpression jtn000 = new ASTExpression(this, JJTEXPRESSION);
    boolean jtc000 = true;
    jjtree.openNodeScope(jtn000);
   /*@e gen*/
    {/*@b gen(jjtree) Expression */
    try {
    LoggerFactory.getLogger().trace("{}", className);
    catch (Throwable jjte000) {
        if (jjtc000) {
            jjtree.clearNodeScope(jjtn000);
            jjtc000 = false;
        } else {
            jjtree.popNode();
        }
    if (jjte000 instanceof RuntimeException) {
        throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
        throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
} finally {
    if (jjtc000) {
void Assignment()                : {/*@bgen(jjtree) #Assignment( 2) */
  ASTAssignment jjtn000 = new ASTAssignment(this, JJTASSIGNMENT);
  boolean jjtc000 = true;
  jjtree.openNodeScope(jjtn000);
  try {
    PrimaryExpression() <EQUALS>  Expression()/*@bgen(jjtree)*/
  } catch (Throwable jjte000) {
    if (jjtc000) {
      jjtree.clearNodeScope(jjtn000);
      jjtc000 = false;
    } else {
      jjtree.popNode();
    }
    if (jjte000 instanceof RuntimeException) {
      throw (RuntimeException)jjte000;
    }
    if (jjte000 instanceof ParseException) {
      throw (ParseException)jjte000;
    }
    throw (Error)jjte000;
  } finally {
    if (jjtc000) {
      jjtree.closeNodeScope(jjtn000,  2);
    }
  }
  /*@egen*/
}

void ConditionalOrExpression()       : {} } } ConditionalAndExpression()
( <LOGICAL_OR>/*@bgen(jjtree) #OrNode( 2) */
  { 
    ASTOrNode jjtn001 = new ASTOrNode(this, JJTORNODE);
    boolean jjtc001 = true;
    jjtree.openNodeScope(jjtn001);
  }try {
    ConditionalAndExpression()/*@bgen(jjtree)*/
  /*@egen*/ }
} catch (Throwable jjte001) {
    if (jjtc001) {
        jjtree.clearNodeScope(jjtn001);
        jjtc001 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte001 instanceof RuntimeException) {
        throw (RuntimeException)jjte001;
    }
    if (jjte001 instanceof ParseException) {
        throw (ParseException)jjte001;
    }
    throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/
}*

void ConditionalAndExpression() : {}
{
    EqualityExpression()
    ( <LOGICAL_AND>/*@bgen(jjtree) #AndNode(2) */
    {
        ASTAndNode jjtn001 = new ASTAndNode(this, JJTANDNODE);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        /*@egen*/
        EqualityExpression()/@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    }
/*@egen*/

```java
void EqualityExpression() : {}
{
    RelationalExpression()
    {
        <LOGICAL_EQUALS>/*@bgen(jjtree) #EQNode( 2) */
        {
            ASTEQNode jjtn001 = new ASTEQNode(this, JJTEQNODE);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
    }
    try {
        /*@egen*/ RelationalExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }

    /*@egen*/
    | <LOGICAL_NOT_EQUALS>/*@bgen(jjtree) #NENode( 2) */
    {
        ASTNENode jjtn002 = new ASTNENode(this, JJTNENODE);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
    try {
        /*@egen*/ RelationalExpression()/*@bgen(jjtree)*/
    }
}
```
catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}

/*@egen*/
void RelationalExpression() : []
{
    AdditiveExpression()
    (]
        <LOGICAL_LT>/*@bgen(jjtree) #LTNode( 2) */
        {
            ASTLTNode jjtn001 = new ASTLTNode(this, JJTLTNODE);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
    try {
       /*@egen*/ AdditiveExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte001) {
        if (jjtc001) {
            jjtree.clearNodeScope(jjtn001);
            jjtc001 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
    }
}
throw (Error)jjte001;
} finally {
    if (jjtc001) {
        jjtree.closeNodeScope(jjtn001, 2);
    }
}

/*@egen*/
| <LOGICAL_GT>/*@bgen(jjtree) #GTNode( 2) */
{
    ASTGTNode jjtn002 = new ASTGTNode(this, JJTGTFNODE);
    boolean jjtc002 = true;
    jjtree.openNodeScope(jjtn002);
}
try {
    @*/egen*/  AdditiveExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte002) {
    if (jjtc002) {
        jjtree.clearNodeScope(jjtn002);
        jjtc002 = false;
    } else {
        jjtree.popNode();
    }
    if (jjte002 instanceof RuntimeException) {
        throw (RuntimeException)jjte002;
    }
    if (jjte002 instanceof ParseException) {
        throw (ParseException)jjte002;
    }
    throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}

/*@egen*/
| <LOGICAL_LE>/*@bgen(jjtree) #LENode( 2) */
{
    ASTLENode jjtn003 = new ASTLENode(this, JJTLENODE);
    boolean jjtc003 = true;
    jjtree.openNodeScope(jjtn003);
}
try {
    @*/egen*/  AdditiveExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte003) {
    if (jjtc003) {
        jjtree.clearNodeScope(jjtn003);
        jjtc003 = false;
    } else {

```java
jjtree.popNode();
}
if (jjte003 instanceof RuntimeException) {
    throw (RuntimeException)jjte003;
}
if (jjte003 instanceof ParseException) {
    throw (ParseException)jjte003;
}
throw (Error)jjte003;
} finally {
    if (jjtc003) {
        jjtree.closeNodeScope(jjtn003,  2);
    }
}
/*/@egen*/
[ <LOGICAL_GE>/*@bgen(jjtree) #GENode( 2) */
{
    ASTGENode jjtn004 = new ASTGENode(this, JJTGENODE);
    boolean jjtc004 = true;
    jjtree.openNodeScope(jjtn004);
}
try {
    */@egen*/  AdditiveExpression()/*@bgen(jjtree)*/
    } catch (Throwable jjte004) {
        if (jjtc004) {
            jjtree.clearNodeScope(jjtn004);
            jjtc004 = false;
        } else {
            jjtree.popNode();
        }
        if (jjte004 instanceof RuntimeException) {
            throw (RuntimeException)jjte004;
        }
        if (jjte004 instanceof ParseException) {
            throw (ParseException)jjte004;
        }
        throw (Error)jjte004;
    } finally {
        if (jjtc004) {
            jjtree.closeNodeScope(jjtn004,  2);
        }
    }

    */@egen*/
    )*
}

void AdditiveExpression() : {
{
```
MultiplicativeExpression()
{
    <PLUS>/*@bgen(jjtree) #AddNode( 2) *@
    {
        ASTAddNode jjtn001 = new ASTAddNode(this, JJTADDNODE);
        boolean jjtc001 = true;
        jjtree.openNodeScope(jjtn001);
    }
    try {
        MultiplicativeExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
        if (jjte001 instanceof RuntimeException) {
            throw (RuntimeException)jjte001;
        }
        if (jjte001 instanceof ParseException) {
            throw (ParseException)jjte001;
        }
        throw (Error)jjte001;
    } finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001,  2);
        }
    }
    }<MINUS>/*@bgen(jjtree) #SubtractNode( 2) *@
    {
        ASTSubtractNode jjtn002 = new ASTSubtractNode(this, JJTSUBTRACTNODE);
        boolean jjtc002 = true;
        jjtree.openNodeScope(jjtn002);
    }
    try {
        MultiplicativeExpression()/*@bgen(jjtree)*/
        } catch (Throwable jjte002) {
            if (jjtc002) {
                jjtree.clearNodeScope(jjtn002);
                jjtc002 = false;
            } else {
                jjtree.popNode();
            }
        if (jjte002 instanceof RuntimeException) {
            throw (RuntimeException)jjte002;
        }
if (jjte002 instanceof ParseException) {
    throw (ParseException)jjte002;
}
throw (Error)jjte002;
} finally {
    if (jjtc002) {
        jjtree.closeNodeScope(jjtn002, 2);
    }
}
/*@egen*/
)
*@

void MultiplicativeExpression() : {}
{
    UnaryExpression()
    {
        <MULTIPLY>@bgen(jjtree) #MulNode( 2) */
        {
            ASTMulNode jjtn001 = new ASTMulNode(this, JJTMULNODE);
            boolean jjtc001 = true;
            jjtree.openNodeScope(jjtn001);
        }
        try {
            @egen*/ UnaryExpression()@bgen(jjtree)*/
        } catch (Throwable jjte001) {
            if (jjtc001) {
                jjtree.clearNodeScope(jjtn001);
                jjtc001 = false;
            } else {
                jjtree.popNode();
            }
            if (jjte001 instanceof RuntimeException) {
                throw (RuntimeException)jjte001;
            }
            if (jjte001 instanceof ParseException) {
                throw (ParseException)jjte001;
            }
            throw (Error)jjte001;
        }
    finally {
        if (jjtc001) {
            jjtree.closeNodeScope(jjtn001, 2);
        }
    }
    @*/egen*/
    | <DIVIDE>@bgen(jjtree) #DivNode( 2) */
    {
        ASTDivNode jjtn002 = new ASTDivNode(this, JJTDIVNODE);
boolean jjtc002 = true;
jtree.openNodeScope(jjtn002);
}
try {
/*@egen*/ UnaryExpression()/*@bgen(jjtree)*/
catch (Throwable jjte002) {
  if (jjtc002) {
    jjtree.clearNodeScope(jjtn002);
    jjtc002 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte002 instanceof RuntimeException) {
    throw (RuntimeException)jjte002;
  }
  if (jjte002 instanceof ParseException) {
    throw (ParseException)jjte002;
  }
  throw (Error)jjte002;
} finally {
  if (jjtc002) {
    jjtree.closeNodeScope(jjtn002, 2);
  }
}

/*@egen*/
| <MODULUS>/*@bgen(jjtree) #ModNode( 2) */|
{
  ASTModNode jjtn003 = new ASTModNode(this, JJTMODNODE);
  boolean jjtc003 = true;
  jjtree.openNodeScope(jjtn003);
}
try {
/*@egen*/ UnaryExpression()/*@bgen(jjtree)*/
catch (Throwable jjte003) {
  if (jjtc003) {
    jjtree.clearNodeScope(jjtn003);
    jjtc003 = false;
  } else {
    jjtree.popNode();
  }
  if (jjte003 instanceof RuntimeException) {
    throw (RuntimeException)jjte003;
  }
  if (jjte003 instanceof ParseException) {
    throw (ParseException)jjte003;
  }
  throw (Error)jjte003;
} finally {
if (jjtc003) {
jjtree.closeNodeScope(jjtn003, 2);
}
/*@egen*/
)
/*
}

void UnaryExpression() : {}
{

LOOKAHEAD(2) [<WHITESPACE>] <LOGICAL_NOT>/*@bgen(jjtree) #NotNode( 1) */
{
ASTNotNode jjtn001 = new ASTNotNode(this, JJTNOTNODE);
boolean jjtc001 = true;
jjtree.openNodeScope(jjtn001);
}
try {
/*@egen*/ UnaryExpression()/*@bgen(jjtree)*/
} catch (Throwable jjte001) {
if (jjtc001) {
jjtree.clearNodeScope(jjtn001);
jjtc001 = false;
} else {
jjtree.popNode();
}
if (jjte001 instanceof RuntimeException) {
throw (RuntimeException)jjte001;
}
if (jjte001 instanceof ParseException) {
throw (ParseException)jjte001;
}
throw (Error)jjte001;
} finally {
if (jjtc001) {
jjtree.closeNodeScope(jjtn001, 1);
}
}
/*@egen*/
| PrimaryExpression()
}
/* ======================================================================  
Notes  
-----  
template == the input stream for this parser, contains 'VTL' mixed in with 'schmoo'
VTL == Velocity Template Language : the references, directives, etc
schmoo == the non-VTL component of a template
reference == VTL entity that represents data within the context. ex. $foo
directive == VTL entity that denotes 'action' (#set, #foreach, #if )
defined directive (DD) == VTL directive entity that is expressed explicitly w/in this grammar
pluggable directive (PD) == VTL directive entity that is defined outside of the grammar. PD's allow VTL to be easily expandable w/o parser modification.
The problem with parsing VTL is that an input stream consists generally of little bits of VTL mixed in with 'other stuff, referred to as 'schmoo'. Unlike other languages, like C or Java, where the parser can punt whenever it encounters input that doesn't conform to the grammar, the VTL parser can't do that. It must simply output the schmoo and keep going.
There are a few things that we do here :
- define a set of parser states (DEFAULT, DIRECTIVE, REFERENCE, etc)
- define for each parser state a set of tokens for each state
- define the VTL grammar, expressed (mostly) in the productions such as Text(), SetStatement(), etc.

It is clear that this expression of the VTL grammar (the contents
of this .jit file) is maturing and evolving as we learn more about how to parse VTL (and as I learn about parsing...), so in the event this documentation is in disagreement w/ the source, the source takes precedence. :)

Parser States
-------------
DEFAULT : This is the base or starting state, and strangely enough, the default state.

PRE_DIRECTIVE : State immediately following '#' before we figure out which defined or pluggable directive (or neither) we are working with.

DIRECTIVE : This state is triggered by the a match of a DD or a PD.

REFERENCE : Triggered by '$'. Analagous to PRE_DIRECTIVE.

REFMODIFIER : Triggered by .<alpha> when in REFERENCE.

REFMOD2 : Triggered by ( when in REFMODIFIER

(cont)

Escape Sequences
---------------
The escape processing in VTL is very simple. The '\' character acts only as an escape when:

1) On or more touch a VTL element.

A VTL element is either:

1) It preceeds a reference that is in the context.

2) It preceeds a defined directive (#set, #if, #end, etc) or a valid pluggable directive, such as #foreach

In all other cases the '\' is just another piece of text. The purpose of this is to allow the non-VTL parts of a template (the 'schmoo') to not have to be altered for processing by Velocity.

So if in the context $foo and $bar were defined and $woogie was not

\$foo \$bar \$woogie

would output

$foo $bar \$woogie
Further, you can stack them and they affect left to right, just like convention escape characters in other languages.

\$foo = $foo
\$foo = \<foo>
\\$foo = \$foo

What You Expect
-----------------

The recent versions of the parser are trying to support precise output to support general template use. The directives do not render trailing whitespace and newlines if followed by a newline. They will render preceeding whitespace. The only exception is #set, which also eats preceeding whitespace.

So, with a template:

------
#set $foo="foo"
#if($foo)
  \$foo = $foo
#end
------

it will render precisely:

------
$foo = foo
------

*/

Found in path(s):
* /opt/cola/permits/1000221041_1646268241.71/0/com-springsource-org-apache-velocity-sources-1-5-0-
  jar/org/apache/velocity/runtime/parser/Parser.jj

1.785 common-api 1.4.11.Final
1.785.1 Available under license:
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* /opt/cola/permits/1091710556_1654022818.4129508/0/ironjacamar-common-spi-1-4-11-final-sources-1-
  jar/org/jboss/jca/common/spi/annotations/repository/AnnotationScannerFactory.java
* /opt/cola/permits/1091710556_1654022818.4129508/0/ironjacamar-common-spi-1-4-11-final-sources-1-
  jar/org/jboss/jca/common/spi/annotations/repository/Annotation.java
* /opt/cola/permits/1091710556_1654022818.4129508/0/ironjacamar-common-spi-1-4-11-final-sources-1-
  jar/org/jboss/jca/common/spi/annotations/repository/AnnotationRepository.java
* /opt/cola/permits/1091710556_1654022818.4129508/0/ironjacamar-common-spi-1-4-11-final-sources-1-
  jar/org/jboss/jca/common/spi/annotations/repository/AnnotationScanner.java

1.786 remoting-jmx 1.1.0.Final
1.786.1 Available under license :
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*/

Found in path(s):
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/Constants.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/VersionedProxy.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/RemotingConnectorProvider.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/VersionedConnectionFactory.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/protocol/Versions.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/VersionedConnectionFactory.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/protocol/v2/VersionTwo.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/RemotingConnectorServer.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/VersionedConnectionFactory.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/Version.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/RemotingConnector.java
* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1.jar/org.jboss/remotingjmx/protocol/v1/VersionOne.java

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* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1-jar/org/jboss/remotingjmx/protocol/v2/ServerCommon.java
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* /opt/cola/permits/1081901854_1654022961.8544106/0/remoting-jmx-1-1-0-final-sources-1-
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* /opt/cola/permits/1000055559_1646171449.67/0/lombok/Generated.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/handlers/HandleHelper.java
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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/HandleWither.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/agent/PatchExtensionMethod.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/HandleAccessors.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/HandleValue.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/HandleExtensionMethod.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/debug/package-info.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/debug/DebugSnapshotStore.java

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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/handlers/singulars/EclipseJavaUtilListSingularizer.java
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* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/singualars/EclipseGuavaTableSingularizer.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/singualars/EclipseGuavaSetListSingularizer.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/handlers/singualars/JavacJavaUtilSetSingularizer.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/handlers/Singulars.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/JavacAST.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/HandleSetter.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/EclipseASTAdapter.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/agent/EclipsePatcher.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/EclipseHandlerUtil.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/JavacASTVisitor.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/NonNull.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/EclipseHandlerUtil.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/JavacASTVisitor.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/EclipseHandlerUtil.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/JavacASTVisitor.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/EclipseHandlerUtil.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/JavacASTVisitor.java
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* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/javacASTAdapter.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/TransformEclipseAST.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/DirectoryRunner.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/handlers/HandleSetter.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/javac.javac.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/EclipseNode.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/handlers/JavacHandlerUtil.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/EclipseASTVisitor.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/EclipseASTVisitor.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/Version.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/delombok/Delombok.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/delombok/ant/DelombokTaskImpl.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/handlers/InclusionExclusionUtils.java
* /opt/cola/permissions/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/handlers/HandleToString.java
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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/Main.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok/eclipse/handlers/HandleData.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok/eclipse/handlers/HandleEqualsAndHashCode.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok/eclipse/handlers/HandleToString.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok/EqualsAndHashCode.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok/AbstractRunTests.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok/experimental/Accessors.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok/Value.java

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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/LombokTestSource.java
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jar/lombok/javac/apt/InterceptingJavaFileObject.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/javac/apt/Javac6BaseFileObjectWrapper.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/javac/apt/LombokFileObject.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/javac/apt/Javac7BaseFileObjectWrapper.java

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jar/lombok/bytecode/FixedClassWriter.java
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jar/lombok/installer/eclipse/EclipseProductDescriptor.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/installer/eclipse/MyEclipseLocationProvider.java

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jar/lombok/eclipse/EclipseImportList.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/core/LombokImmutableList.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/core/JavaIdentifiers.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/core/configuration/ConfigurationResolver.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/core/configuration/TypeName.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/javac/java8/CommentCollectingTokenizer.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/javac/Java6BasedLombokOptions.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/javac/Java8/CommentCollectingScanner.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/delombok/LombokOptionsFactory.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-
jar/lombok/core/debug/FileLog.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-

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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/configuration/ConfigurationProblemReporter.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/configuration/StringConfigurationSource.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/handlers/package-info.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/FieldAugment.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/experimental/Tolerate.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/configuration/ExampleValueString.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/Augments.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/configuration/ConfigurationKeysLoader.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/configuration/FlagUsageType.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/configuration/BubblingConfigurationResolver.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/debug/ProblemReporter.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/launch/Agent.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/JavacAugments.java

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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/java9/CommentCollectingParserFactory.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/extern/log4j/Log4j2.java

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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/experimental/FieldNameConstants.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/launch/AnnotationProcessor.java
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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/val.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/log4j/Log4j.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/AllArgsConstructor.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/experimental/Delegate.java
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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources.jar/lombok/core/ClassLiteral.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources.jar/lombok/core/FieldSelect.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources.jar/lombok/core/AlreadyHandledAnnotations.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources.jar/lombok/extern/flogger/Flogger.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources.jar/lombok/installer/eclipse/STS4LocationProvider.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources.jar/lombok/javac/handlers/HandleBuilderDefaultRemove.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources.jar/lombok/installer/eclipse/AngularIDELocationProvider.java

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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/handlers/JavacSingularsRecipes.java

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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/handlers/HandlerUtil.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/configuration/ConfigurationKey.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/JavacTreeMaker.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/Builder.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/permit/package-info.java
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jar/lombok/installer/WindowsDriveInfo.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/LombokApp.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/installer/CorruptedIdeLocationException.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/delombok/DelombokApp.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/runtimeDependencies/RuntimeDependencyInfo.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/installer/AppleNativeLook.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/installer/package-info.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/package-info.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/agent/package-info.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/apt/package-info.java

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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/bytecode/PostCompilerApp.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/core/PostCompilerTransformation.java

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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/eclipse/agent/PatchExtensionMethodCompletionProposal.java
* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/ResolutionResetNeeded.java
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* /opt/cola/permits/1000055559_1646171449.67/0/lombok-1-18-8-sources-jar/lombok/javac/handlers/JavacResolverPortal.java
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* /opt/cola/permits/1000740278_1646171514.99/0/opensaml-soap-api-3-3-0-sources-jar/org/opensaml/soap/wssecurity/Password.java
* /opt/cola/permits/1000740278_1646171514.99/0/opensaml-soap-api-3-3-0-sources-jar/org/opensaml/soap/wstrust/RenewTarget.java
* /opt/cola/permits/1000740278_1646171514.99/0/opensaml-soap-api-3-3-0-sources-jar/org/opensaml/soap/soap11/EncodingStyleBearing.java
* /opt/cola/permits/1000740278_1646171514.99/0/opensaml-soap-api-3-3-0-sources-jar/org/opensaml/soap/wstrust/RequestedProofToken.java
* /opt/cola/permits/1000740278_1646171514.99/0/opensaml-soap-api-3-3-0-sources-jar/org/opensaml/soap/wsaddressing/To.java
* /opt/cola/permits/1000740278_1646171514.99/0/opensaml-soap-api-3-3-0-sources-jar/org/opensaml/soap/wssecurity/AttributedString.java
* /opt/cola/permits/1000740278_1646171514.99/0/opensaml-soap-api-3-3-0-sources-jar/org/opensaml/soap/wsaddressing/ReferenceParameters.java
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## -*-makefile-*-

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao
## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \ |
| sed '/s/\(^.*\)\.[^ ]*/\1.o $@ : /g' > $@; \ |
[ -s $@ ] || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \ |
| sed '/s/\(^.*\)\.[^ ]*/\1.o $@ : /g' > $@; \ |
[ -s $@ ] || rm -f $@’

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {<F}.$(SO).$(SO_TARGET_VERSION_MAJOR) $@

## End FreeBSD-specific setup

1.795 plexus-container-default 1.0-alpha-9-stable-1

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* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/configurator/MapOrientedComponentConfigurator.java
* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources-jar/org/codehaus/plexus/component/composition/MapOrientedComponentComposer.java

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* /opt/cola/permits/1000749951_1646171538.45/0/plexus-container-default-1-0-alpha-9-stable-1-sources.jar/org/codehaus/plexus/configuration/PlexusConfigurationException.java
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1.800 hibernate-validator 6.0.16.Final

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 * Hibernate Validator, declare and validate application constraints
 * LICENSE-2.0).
 * */
/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 * @param executable The executable of interest.
 * @return A list with parameter meta data for the given executable.
 */

Found in path(s):
*/opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidators/hv/Mod11CheckValidator.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForThaiBuddhistDate.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForOffsetTime.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/metadata/descriptor/ElementDescriptorImpl.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/metadata/core/AnnotationProcessingOptions.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/engine/valueextraction/IntArrayValueExtractor.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/HibernateValidator.java

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va
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/cfg/context/Cascadable.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/cfg/context/package-info.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/xml/mapping/BeanStaxBuilder.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/NotBlankValidator.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/xml/mapping/AbstractOneLineStringStaxBuilder.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/AbstractPastOrPresentJavaTimeValid
ator.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForCalendar.jav
a
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/util/logging/package-info.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/cfg/ConstraintDef.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/cfg/context/ConfiguredConstraint.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/cfg/context/CrossParameterConstraintMappingContextImpl.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/metadata/descr
itor/ExecutableDescriptorImpl.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/metadata/BeanMetaDataManager.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/metadata/aggregated/rule/VoidMethodsMustNotBeReturnValueConstrained.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArraysOfShort.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
  jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForCharSequence.java
null
jar/org/hibernate/validator/internal/constraintvalidators/bv/money/PositiveOrZeroValidatorForMonetaryAmount.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/cfg/defs/Mod11CheckDef.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/metadata/aggregated/rule/ParallelMethodsMustNotDefineParameterConstraints.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/metadata/aggregated/ExecutableMetaData.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/DecimalMinValidatorForFloat.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidation/package-info.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/engine/resolver/TraverseAllTraversableResolver.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/util/TypeVariableBindings.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/xml/mapping/ConstraintDefinitionStaxBuilder.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArraysOfChar.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/util/logging/formatter/ClassObjectFormatter.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/engine/DefaultParameterNameProvider.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/engine/valueextraction/ValueExtractorResolver.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForHijrahDate.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/metadata/descriptor/BeanDescriptorImpl.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/config/context/PropertyConstraintMappingContextImpl.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/constraints/br/package-info.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/util/classhierarchy/ClassHierarchyHelper.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/metadata/aggregated/rule/MethodConfigurationRule.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForByte.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/MessageDescriptorFormatException.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/constraintvalidation/package-info.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/metadata/aggregated/ExecutableMetaData.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForYearMonth.java

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* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/internal/engine/groups/Sequence.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/AbstractDecimalMaxValidator.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NumberSignHelper.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/internal/metadata/aggregated/rule/OverridingMethodMustNotAlterParameterConstraints.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForMinguoDate.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForThaiBuddhistDate.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/HibernateValidatorContext.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/internal/metadata/aggregated/ConstraintMetaData.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/internal/engine/package-info.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/internal/constraintvalidators/bv/money/NegativeOrZeroValidatorForMonetaryAmount.java
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4.jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForLocalDate.java

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A method-level constraint, that evaluates a script expression against the
annotated method or constructor. This constraint can be used to implement
validation routines that depend on several parameters of the annotated
executable.

Script expressions can be written in any scripting or expression language,
for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
found on the classpath. To refer to a parameter within the scripting
expression, use its name as obtained by the active
[@link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
will be used as parameter names.

The following listing shows an example using the JavaScript engine which
comes with the JDK:

```java
@ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
public void createEvent(Date start, Date end) { ... }
```

Can be specified on any method or constructor.

@author Gunnar Morling

Found in path(s):
* /opt/cola/permits/1110675268_1606843510.78/0/hibernate-validator-6-0-16-final-sources-4-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

1.801 opensaml-profile-api 3.3.0

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* /opt/cola/permits/1000740435_1646171490.52/0/opensaml-profile-api-3-3-0-sources.jar/org/opensaml/profile/logic/MessageContextPredicateAdapter.java
* /opt/cola/permits/1000740435_1646171490.52/0/opensaml-profile-api-3-3-0-sources.jar/org/opensaml/profile/context/navigate/CurrentOrPreviousEventLookup.java
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* /opt/cola/permits/1000740435_1646171490.52/0/opensaml-profile-api-3-3-0-sources.jar/org/opensaml/profile/logic/ProfileIdPredicate.java
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* /opt/cola/permits/1000740435_1646171490.52/0/opensaml-profile-api-3-3-0-sources.jar/org/opensaml/profile/action/EventException.java
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/*
 * A predicate implementation that indicates whether the message channel does
 * <strong>NOT</strong> support confidentiality end-to-end.
 * 
 * <p>Typically but not exclusively used as a predicate for whether to encrypt something.</p>
 */

Found in path(s):
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1.802 icu4j 62.1

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org.jboss.as.cmp.subsystem.CmpExtension

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* /opt/cola/permits/1110676536_1654022990.03639670/wildfly-cmp-14-0-1-final-sources-1-jar/schema/jboss-as-cmp_1_1.xsd
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* /opt/cola/permits/1110676536_1654022990.0363967/0/wildfly-cmp-14-0-1-final-sources-1-jar/org/jboss/as/cmp/subsystem/HiLoKeyGeneratorAdd.java
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* /opt/cola/permits/1110676536_1654022990.0363967/0/wildfly-cmp-14-0-1-final-sources-1-jar/org/jboss/as/cmp/subsystem/AbstractKeyGeneratorRemove.java

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  */opt/cola/permits/1110676536_1654022990.0363967/0/wildfly-cmp-14-0-1-final-sources-1.jar/org/jboss/as/cmp/subsystem/HiLoKeyGeneratorResourceDefinition.java
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  */opt/cola/permits/1110676536_1654022990.0363967/0/wildfly-cmp-14-0-1-final-sources-1.jar/org/jboss/as/cmp/subsystem/CmpSubsystem11Parser.java

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* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMapping.java
* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/ViewResolver.java
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 */
/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 */
The XSLT Source object is supplied as a parameter in the model and then
[@link #locateSource detected] during response rendering. Users can either specify
a specific entry in the model via the [@link #setSourceKey sourceKey] property or
have Spring locate the Source object. This class also provides basic conversion
of objects into Source implementations. See [@link #getSourceTypes() here]
for more details.

All model parameters are passed to the XSLT Transformer as parameters.
In addition the user can configure [@link #setOutputProperties output properties]
to be passed to the Transformer.

@author Rob Harrop
@author Juergen Hoeller
@since 2.0
*/

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* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/config/annotation/ResourceChainRegistration.java
* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractXlsView.java
* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/support/JstlUtils.java
* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/view/AbstractUrlBasedView.java
* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java
* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/config/annotation/RedirectViewControllerRegistration.java
* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/LocaleContextResolver.java

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* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/config/annotation/UrlBasedViewResolverRegistration.java
* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/FlashMapManager.java
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* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java

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* /opt/cola/permits/1136607948_1613806907.03/0/spring-webmvc-5-1-9-release-sources-1-
  jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java

1.815 taglibs-standard 1.2.6-RC1

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* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/web/client/InterceptingAsyncClientHttpRequestFactory.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/web/method/annotation/SessionAttributesHandler.java
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* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/web/util/JavaScriptUtils.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/http/server/reactive/TomcatHeadersAdapter.java
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# application/a2l
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# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/dcd
# application/dec-dx
# application/dialog-info+xml
# application/dicom
# application/dii
# application/dit
# application/dns
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dbk
# application/dskpp+xml
application/dssc+der
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application/dssc+xml
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# application/edi-consent
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# application/index.cmd
# application/index.obj
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# application/isup
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application/java-serialized-object ser
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# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
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# text/csv-schema
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# text/dns
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# text/encaprtp
# text/enriched
# text/example
# text/fwdred
# text/grammar-ref-list
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# text/javascript
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# text/parityfec
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# text/provenance-notation
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x-conference/x-cooltalkice

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* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/bind/ServletRequestBindingException.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/context/ConfigurableWebEnvironment.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/bind/AbstractClientHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/bind/support/SimpleSessionStatus.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/client/RestClientException.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/http/MediaTypeEditor.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/http/client/AbstractClientHttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/bind/support/IntrospectorCleanupListener.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/bind/support/IntrospectorCleanupListener.java

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* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/web/filter/CompositeFilter.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/http/ReactiveHttpInputMessage.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/web/bind/annotation/PatchMapping.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/web/bind/annotation/RequestAttribute.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/web/server/WebExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/http/converter/json/SpringHandlerInstantiator.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpInvokerRequestExecutor.java
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-jar/org/springframework/web/context/request/WebRequestInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/client/Retrofit.java
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* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1.jar/org/springframework/web/context/support/ServletContextScope.java
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/**
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See {@link WebSession}
 * for more details.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068290190_1594346837.78/0/spring-web-5-2-2-release-sources-1-
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* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/ModelMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/OAuth2AuthFactory.java
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* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/ApiKeyAuthFactory.java
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* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/VendorExtensionsMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/SecurityMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/SerializableParameterFactories.java

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* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/LicenseMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-jar/springfox/documentation/swagger2/mappers/SecuritySchemeFactory.java
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jar/springfox/documentation/swagger2/annotations/EnableSwagger2.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/ServiceModelToSwagger2Mapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/configuration/Swagger2DocumentationConfiguration.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/SerializableParameterFactory.java
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jar/springfox/documentation/swagger2/mappers/EnumMapper.java
* /opt/cola/permits/1177939619_1625570713.75/0/springfox-swagger2-2-9-2-sources-3-
jar/springfox/documentation/swagger2/mappers/Properties.java
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jar/springfox/documentation/swagger2/web/Swagger2Controller.java

1.827 libwebp 0.3.0-7.el7

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  jar/org/apache/commons/logging/LogFactory.java
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  jar/org/apache/commons/logging/impl/SLF4JLocationAwareLog.java
1.829 slf4j 1.7.7

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(So hat z.B. eine Funktion zum Berechnen von Quadratwurzeln einen von der Anwendung unabhängigen genau definierten Zweck. Deshalb verlangt Absatz d, dass jede von der Anwendung bereitgestellte Funktion oder von dieser Funktion benutzte Tabelle optional sein muss: Auch wenn die Anwendung sie nicht bereitstellt, muss die Quadratwurzelfunktion trotzdem noch Quadratwurzeln berechnen.)

Diese Anforderungen gelten für das bearbeitete Werk als Ganzes. Wenn identifizierbare Teile davon nicht von der Bibliothek stammen und vernünftigerweise als unabhängige und gesonderte Werke für sich selbst zu betrachten sind, dann gelten diese Lizenz und ihre Bedingungen nicht für die betreffenden Teile, wenn Sie diese als gesonderte Werke weitergeben. Wenn Sie jedoch dieselben Teile als Teil eines Ganzen weitergeben, das ein auf der Bibliothek basierendes Werk darstellt, dann muss die Weitergabe dieses Ganzen nach den Bedingungen dieser Lizenz erfolgen.
deren Bedingungen für weitere Lizenznehmer somit auf das gesamte Ganze ausgedehnt werden und somit auf jeden einzelnen Teil, unabhängig vom jeweiligen Autor.

Somit ist es nicht die Absicht dieses Abschnittes, Rechte für Werke in Anspruch zu nehmen oder Ihnen Rechte für Werke streitig zu machen, die komplett von Ihnen geschrieben wurden; vielmehr ist es die Absicht, die Rechte zur Kontrolle der Verbreitung von Werken, die auf der Bibliothek basieren oder unter ihrer auszugsweisen Verwendung zusammengestellt worden sind, auszubauen.

Ferner bringt auch das einfache Zusammenlegen eines anderen Werkes, das nicht auf der Bibliothek basiert, mit der Bibliothek oder mit einem auf der Bibliothek basierenden Werk auf ein- und demselben Speicher- oder Vertriebsmedium dieses andere Werk nicht in den Anwendungsbereich dieser Lizenz.

Sie können sich für die Anwendung der Bedingungen der gewöhnlichen Allgemeinen öffentlichen GNU-Lizenz (GNU-GPL) statt dieser Lizenz auf eine gegebene Kopie der Bibliothek entscheiden. Um dies zu tun, müssen Sie alle Eintragungen, die sich auf diese Lizenz beziehen, ndern, so da sie nun fr die gewöhnliche GNU-GPL, Version 2, statt fr diese Lizenz (LGPL) gelten. (Wenn eine neuere Version als Version 2 der gewöhnlichen GNU-GPL erschienen ist, kenen Sie diese angeben, wenn Sie das wnschen.) Nehmen Sie keine anderen Vernderungen in diesen Eintragungen vor.

Wenn diese Vernderung in einer gegebenen Kopie einmal vorgenommen ist, dann ist sie fr diese Kopie nicht mehr rückkehrbar, und somit gilt dann die gewöhnliche GNU-GPL fr alle nachfolgenden Kopien und abgeleiteten Werke, die von dieser Kopie gemacht worden sind.

Diese Option ist ntzlich, wenn Sie einen Teil des Codes der Bibliothek in ein Programm kopieren wollen, das keine Bibliothek ist.

Sie können die Bibliothek (oder einen Teil oder eine Ableitung von ihr, gem <link linkend="sect2">Paragraph 2</link>) in Objektcode-Form oder in ausführbarer Form unter den Bedingungen der obigen Paragraphen <link linkend="sect1">1</link> und <link linkend="sect2">2</link> kopieren und weitergeben, sofern Sie den vollstndigen entsprechenden maschinenlesbaren Quelltext beifügen, der unter den Bedingungen der obigen Paragraphen <link linkend="sect1">1</link> und <link linkend="sect2">2</link> auf einem Medium weitergegeben werden muss, das blicherweise zum Austausch von Software benutzt wird.

Wenn die Weitergabe von Objektcode durch das Angebot eines Zugangs zum Kopienabruf von einem angegebenen Ort erfolgt, dann erllt das Angebot eines gleichwertigen Zugangs zum Kopieren des Quelltextes von demselben Ort die Anforderung, auch den Quelltext weiterzugeben, obwohl Dritte nicht verplichtet sind, den Quelltext zusammen mit dem Objektcode zu kopieren.

Wird jedoch ein Werk, das die Bibliothek nutzt, mit der Bibliothek gelinkt, so entsteht ein ausführbares Programm, das ein von der Bibliothek abgeleitetes Werk (weil es Teile der Bibliothek enthält) und kein Werk, das die Bibliothek nutzt ist. Das ausführbare Programm fällt daher unter diese Lizenz. Paragraph 6 gibt die Bedingungen für die Weitergabe solcher ausführbarer Programme an.

Wenn ein Werk, das die Bibliothek nutzt, Material aus einer Header-Datei verwendet, die Teil der Bibliothek ist, dann kann der Objektcode des Werk ein von der Bibliothek abgeleitetes Werk sein, selbst wenn der Quelltext dies nicht ist. Ob dies jeweils zutrifft, ist besonders dann von Bedeutung, wenn das Werk ohne die Bibliothek gelinkt werden kann oder wenn das Werk selbst eine Bibliothek ist. Die genaue Grenze, von der an dies zutrifft, ist rechtlich nicht genau definiert.

Wenn solch eine Objektdatei nur numerische Parameter, Datenstruktur-Layouts und Zugriffsfunktionen sowie kleine Makros und kleine Inlinefunktionen (zehn Zeilen lang oder krzer) benutzt, dann unterliegt die Benutzung der Objektdatei keinen Beschränkungen, ohne Recksicht darauf, ob es rechtlich gesehen ein abgeleitetes Werk ist. (Ausführbare Programme, welche diesen Objektcode plus Teile der Bibliothek enthalten, fallen jedoch weiterhin unter die Bestimmungen von Paragraph 6). Paragraph 6, gleichgültig, ob sie direkt mit der Bibliothek selbst gelinkt sind oder nicht.

Ansonsten kannen Sie, wenn das Werk ein von der Bibliothek abgeleitetes ist, den Objektcode des Werk unter den Bedingungen von Paragraph 6 weitergeben. Alle ausführbaren Programme, welche dieses Werk enthalten, fallen ebenfalls unter Paragraph 6, gleichgültig, ob sie direkt mit der Bibliothek selbst gelinkt sind oder nicht.

Als Ausnahme von den Bestimmungen der vorstehenden fünf Paragraphen dürfen Sie auch ein Werk, das die Bibliothek nutzt, mit der Bibliothek kombinieren oder linken, um ein Werk zu erzeugen, das Teile der Bibliothek enthält, und dieses unter Bedingungen ihrer eigenen Wahl weitergeben, sofern diese Bedingungen Bearbeitungen für den eigenen Gebrauch des Empfängers und ein Rückschneiden (reverse engineering) zum Beheben von Mängeln solcher Bearbeitungen gestatten.

Sie müssen bei jeder Kopie des Werks deutlich erkennbar angeben, dass die Bibliothek darin genutzt wird und dass die Bibliothek und ihre Benutzung durch die Lizenz abgedeckt sind. Sie müssen eine Kopie dieser Lizenz mitgeben. Wenn das Werk bei einer Ausführung Copyright-Vermerke anzeigt, müssen Sie den Copyright-Vermerk für die Bibliothek mit anzeigen lassen und dem Benutzer einen Hinweis geben, der ihn zu einer Kopie dieser Lizenz.
fhrt. Ferner mssen Sie eines der nachfolgend genannten fnf Dinge tun: <orderedlist numeration="loweralpha">
<li id="sect6a">Liefern Sie das Werk zusammen mit dem vollstndigen zugehrigen maschinenlesbaren Quelltext der Bibliothek aus, und zwar einschlieglich jeglicher in dem Werk angewandter nderungen (wobei dessen Weitergabe gem den Bedingungen der Paragraphen <link linkend="sect1">1</link> und <link linkend="sect2">2</link> erfolgen muss); und wenn das Werk ein ausfhrbares, mit der Bibliothek gelinktes Programm ist, dann liefern Sie es zusammen mit dem vollstndigen maschinenlesbaren <quote>Werk, das die Bibliothek nutzt</quote>, in Form von Objektc ode und/oder Quelltext, so dass der Benutzer die Bibliothek verndern und dann erneut linken kann, um ein verndertes ausfhrbares Programm zu erzeugen, das die vernderte Bibliothek enthlt. (Es versteht sich, dass der Benutzer, der die Inhalte von Definitionsdateien in der verndeten Bibliothek verndert, nicht notwendigerweise in der Lage sein wird, die Anwendung neu zu compilieren, um die vernderten Definitionen zu benutzen.)</li>
<li>Liefern Sie das Werk zusammen mit einem mindestens drei Jahre lang gltigen schriftlichen Angebot, demselben Benutzer die oben in <link linkend="sect6a">Paragraph 6, Absatz (a)</link> genannten Materialien zu Kosten, welche die reinen Weitergabekosten nicht bersteigen, zur Verfgung zu stellen.</li>
<li>Wenn die Weitergabe des Werks dadurch erfolgt, dass die Mglichkeit des Abrufens einer Kopie von einem bestimmten Ort angeboten wird, bieten Sie gleichwertigen Zugang zum Kopieren der oben angegebenen Materialien von dem gleichen Ort an.</li>
<li>Sie vergewissern sich, dass der Benutzer bereits eine Kopie dieser Materialien erhalten hat oder dass Sie diesem Benutzer bereits eine Kopie geschickt haben.</li>
</orderedlist>

Fr ein ausfhrbares Programm muss die verlangte Form des <quote>Werks, das die Bibliothek nutzt</quote> alle Daten und Hilfsprogramme mit einschlieen, die man braucht, um daraus das ausfhrbare Programm zu reproduzieren. Doch gilt eine spezielle Ausnahme: Die weiterzugebenden Materialien brauchen nicht alles das zu enthalten, was normalerweise (in Quelltext-Form oder in binrer Form) mit den Hauptbestandteilen (Compiler, Kern usw.) des Betriebssystems, auf denen das ausfhrbare Programm lauft, weitergegeben wird, es sei denn, das ausfhrbare Programm gehrt selbst zu diesem Hauptbestandteil.

Es kann vorkommen, dass diese Anforderung im Widerspruch zu Lizenzbeschrnkungen anderer, proprietrer Bibliotheken steht, die normalerweise nicht zum Betriebssystem gehren. Ein solcher Widerspruch bedeutet, dass Sie nicht gleichzeitig jene proprietren Bibliotheken und die vorliegende Bibliothek zusammen in einem ausfhrbaren Programm, das Sie weitergeben, verwenden dfen.
Sie dürfen Bibliotheks-Funktionseinheiten, die ein auf der Bibliothek basierendes Werk darstellen, zusammen mit anderen, nicht unter diese Lizenz fallenden Funktionseinheiten in eine einzelne Bibliothek einbauen und eine solche kombinierte Bibliothek weitergeben, vorausgesetzt, da die gesonderte Weitergabe des auf der Bibliothek basierenden Werks einerseits und der anderen Funktionseinheiten andererseits ansonsten gestattet ist, und vorausgesetzt, da Sie folgende zwei Dinge tun:

Geben Sie zusammen mit der kombinierten Bibliothek auch eine Kopie desselben auf der Bibliothek basierenden Werks mit, die nicht mit irgendwelchen anderen Funktionseinheiten kombiniert ist. Dieses Werk muss unter den Bedingungen der obigen Paragraphen weitergegeben werden.

Weisen Sie bei der kombinierten Bibliothek an prominenter Stelle auf die Tatsache hin, dass ein Teil davon ein auf der Bibliothek basierendes Werk ist, und erklören Sie, wo man die mitgegebene unkombinierte Form desselben Werks finden kann.

Sie dürfen die Bibliothek nicht vervielfältigen, verändern, weiter lizenzieren oder verbreiten oder mit ihr linken, sofern es nicht durch diese Lizenz ausdrücklich gestattet ist. Jeder anderweitige Versuch der Vervielfältigung, Modifizierung, Weiterlizenzierung und Verbreitung sowie des Linkens mit der Bibliothek ist unzulässig und beendet automatisch Ihre Rechte unter dieser Lizenz. Doch werden die Lizenzen Dritter, die von Ihnen Kopien oder Rechte unter dieser Lizenz erhalten haben, nicht beendet, solange diese Dritten die Lizenz voll anerkennen und befolgen.

Sie sind nicht verpflichtet, diese Lizenz anzunehmen, da Sie diese nicht unterzeichnet haben. Doch gibt Ihnen sonst nichts die Erlaubnis, die Bibliothek oder von ihr abgeleitete Werke zu verändern oder zu verbreiten. Diese Handlungen sind gesetzlich verboten, wenn Sie diese Lizenz nicht annehmen. Indem Sie die Bibliothek (oder ein darauf basierendes Werk) verändern oder verbreiten, erklären Sie Ihr Einverständnis mit dieser Lizenz, die Ihnen das erlaubt, mit allen ihren Bedingungen bezüglich der Vervielfältigung, Verbreitung und Veränderung der Bibliothek oder eines darauf basierenden Werks.
<sect2 id="sect10" label="10">
<title>Paragraph 10</title>

<para>Jedes Mal, wenn Sie die Bibliothek (oder irgendein auf der Bibliothek basierendes Werk) weitergeben, erhält der Empfänger automatisch vom ursprünglichen Lizenzgeber die Lizenz, die Bibliothek entsprechend den hier festgelegten Bestimmungen zu vervielfältigen, zu verbreiten und zu versenden und mit ihr zu verlinken. Sie dragen keine weiteren Einschränkungen der Ausübung der hierin zugestandenen Rechte des Empfängers vornehmen. Sie sind nicht dafür verantwortlich, die Einhaltung dieser Lizenz durch Dritte durchzusetzen.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Paragraph 11</title>

<para>Sollten Ihnen infolge eines Gerichtsurteils, des Vorwurfs einer Patentverletzung oder aus einem anderen Grunde (nicht auf Patentfragen begrenzt) Bedingungen (durch Gerichtsbeschluss, Vergleich oder anderweitig) auferlegt werden, die den Bedingungen dieser Lizenz widersprechen, so befreien diese Umstände Sie nicht von den Bestimmungen dieser Lizenz. Wenn es Ihnen nicht möglic ist, die Bibliothek unter gleichzeitiger Beachtung der Bedingungen in dieser Lizenz und Ihrer anderweitigen Verpflichtungen zu verbreiten, dann dragen Sie als Folge davon die Bibliothek herzlich nicht verbreiten. Wenn zum Beispiel ein Patent nicht die gebührenfreie Weiterverbreitung der Bibliothek durch diejenigen erlaubt, welche die Bibliothek direkt oder indirekt von Ihnen erhalten haben, dann besteht der einzige Weg, sowohl dem Patentrecht als auch dieser Lizenz zu gingen, darin, ganz auf die Verbreitung der Bibliothek zu verzichten.</para>

<para>Sollte sich ein Teil dieses Paragraphen als ungültig oder unter bestimmten Umständen nicht durchsetzbar erweisen, so soll dieser Paragraph seinem Sinne nach angewandt werden; im brigen soll dieser Paragraph als Ganzes gelten.</para>

<para>Zweck dieses Paragraphen ist nicht, Sie dazu zu bringen, irgendwelche Patente oder andere Eigentumsansprüche zu verletzen oder die Gültigkeit solcher Ansprüche zu bestreiten; dieser Paragraph hat vielmehr einzig den Zweck, die Integrität des Verbreitungssystems der freien Software zu schützen, das durch die Praxis öffentlicher Lizenzen verwirklicht wird. Viele Leute haben grozige Beiträge zu dem weitreichenden Angebot der durch dieses System verbreiteten Software im Vertrauen auf die konsistente Anwendung dieses Systems geleistet; es obliegt dem Autor bzw. Geber, zu entscheiden, ob er die Software mittels irgendeines anderen Systems verbreiten will; ein Lizenznehmer jedoch darf darüber nicht entscheiden.</para>

<para>Dieser Paragraph ist dazu gedacht, deutlich klar zu stellen, was als Konsequenz aus den brigen Bestimmungen dieser Lizenz zu betrachten ist.</para>
</sect2>

<sect2 id="sect12" label="12">
<title>Paragraph 12</title>

<para>Wenn die Verbreitung und/oder die Benutzung der Bibliothek in bestimmten Staaten entweder durch Patente oder durch urheberrechtlich gesetzte Schnittstellen eingeschränkt ist, kann der Urheberrechtsinhaber, der die Bibliothek unter diese Lizenz gestellt hat, eine explizite geographische Begrenzung der Verbreitung angeben, in der diese Staaten ausgeschlossen werden, so dass die Verbreitung nur innerhalb und zwischen den Staaten erlaubt ist, die nicht demgemäß ausgeschlossen sind. In einem solchen Fall beinhaltet diese Lizenz die Beschränkung, als wären sie in diesem Text niedergeschrieben.</para>

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Wenn Sie den Wunsch haben, Teile der Bibliothek in anderen freien Programmen zu verwenden, deren Bedingungen für die Verbreitung anders sind, schreiben Sie an den Autor der Bibliothek, um ihn um die Erlaubnis zu bitten. Für Software, die unter dem Copyright der Free Software Foundation steht, schreiben Sie an die Free Software Foundation; wir machen zu diesem Zweck gelegentlich Ausnahmen. Unsere Entscheidung wird von den beiden Zielen geleitet werden, zum einen den freien Status aller von unserer freien Software abgeleiteten Werke zu erhalten und zum anderen das gemeinschaftliche Nutzen und Wiederverwenden von Software im allgemeinen zu fördern.

Da die Bibliothek ohne jegliche Gebühren lizenziert wird, besteht keinerlei Gewährleistung für die Bibliothek, soweit dies gesetzlich zulässig ist. Sofern nicht anderweitig schriftlich bestätigt, stellen die Copyright-Inhaber und/oder Dritte die Bibliothek so, wie sie ist zur Verfügung, ohne Gewährleistung irgendeiner Art, weder ausdrücklich noch implizit. Dieser Garantieausschluss gilt auch ohne darauf beschränkt zu sein für Marktreife oder Verwendbarkeit für einen bestimmten Zweck. Das volle Risiko bezüglich Qualität und Leistungsfähigkeit der Bibliothek liegt bei Ihnen. Sollte sich die Bibliothek als fehlerhaft herausstellen, liegen die Kosten für notwendigen Service, Reparatur oder Korrektur smtlich bei Ihnen.

In keinem Fall, außer wenn dies durch geltendes Recht gefordert wird oder schriftlich zugesichert wurde, ist irgendein Copyright-Inhaber oder irgendein Dritter, der die Bibliothek wie oben erlaubt modifiziert oder verbreitet hat, Ihnen gegenüber für irgendetwas Schadens haftbar. Dies gilt auch für jegliche allgemeine oder spezielle
Schen, Schden durch Nebenwirkungen oder Folgeschden, die sich aus der Benutzung oder der Unbenutzbarkeit der Bibliothek ergeben (das gilt insbesondere ohne darauf beschränkt zu sein, Schden durch Nebenwirkungen oder Folgeschden, die sich aus der Benutzung oder der Unbenutzbarkeit der Bibliothek ergeben (das gilt insbesondere ohne darauf beschränkt zu sein, Datenverluste, das Hineinbringen von Ungenauigkeiten in irgendwelche Daten, Verluste, die Sie oder Dritte erlitten haben, oder ein Unvermögen der Bibliothek, mit irgendeiner anderen Software zusammenzuarbeiten), und zwar auch dann, wenn ein Copyright-Inhaber oder ein Dritter bei der Möglichkeit solcher Schden informiert worden ist.</para>
Jelen Licenc clja egy tetszleges kziknyv, tanknyv, vagy ms, ehhez hasonl felhasznlnak s hasznos dokumentum a sz szoros rtelmben szabadd szabadd tele: annak rdekben, hogy mindenkiek biztostsa a szeg sokszorostnak s terjesztsnek teljes szabads, mdostsokkal, vagy ankl, akr kereskedelmi, akr nem kereskedelmi terleten. Msfell, e Licenc megrzi a szerz vagy kiad munkjnak elismershez fzd jogt, s egyttal menteti t a msok ltal beiktatott mdostsok kvetkezmnyei all.</para>

A jelen Licenc egyfajta copyleft licencnek tekintend: ez azt jelenti, hogy a dokumentuml szrmaztatott munk maguk is szabad minstst kell, hogy kapjanak. Ez a dokumentum egyben a GNU General Public License kiegsztjeknt is szolgl, mely egy, a szabad szoftverekre vonatkoz etalon licenc.</para>

A jelen Licenc a szabad szoftverek kziknyveihez val hasznlatra kszlt, hiszen a szabad szoftver egyben szabad dokumentcit is ignel: egy szabad programot olyan kziknyvel kell ellni, amely ugyanazon szabadsgokat biztostja, mint maga a program. Mindazonlt a jelen Licenc nem korltozik pusztan kziknyvekre; felttelei tetszleges trgykr rott dokumentumra alkalmazhatik. Fggetenli attl, hogy az knyvformban valaha megjelent-e. Mindamellett e Licencet fkt olyan munkkhoz ajnlik, melyek elsdleges clja az tmutats vagy a tjkoztats.</para>

A jelen Licenc a szabad szoftverek kziknyveihez val hasznlatra kszlt, hiszen a szabad szoftver egyben szabad dokumentcit is ignel: egy szabad programot olyan kziknyvel kell ellni, amely ugyanazon szabadsgokat biztostja, mint maga a program. Mindazonlt a jelen Licenc nem korltozik pusztan kziknyvekre; felttelei tetszleges trgykr rott dokumentumra alkalmazhatik. Fggetenli attl, hogy az knyvformban valaha megjelent-e. Mindamellett e Licencet fkt olyan munkkhoz ajnlik, melyek elsdleges clja az tmutats vagy a tjkoztats.
A <quote>Msodlagos szakasz</quote> egy egyedi névvel br fggel, esetleg a <link linkend="fdl-document">Dokumentum</link> egy bevezet szakasza, amely kizrlag a kiadknak, vagy az alkottnak a Dokumentum fog trygkyrkez (vagy kapcsoló tmkhoz) fzd viszonyrl s, n tartalmaz semmi olyat, ami kvezetlenl ezen fog tmak al eshet. (Vagyis ha a Dokumentum rzben egy matematika-tanknyv, akkor a Msodlagos szakasz nem tartalmazhat matematikai trgy magyarzatokat). A fenti kapcsolat trgya lehet a tmakrel, vagy a kapcsoló tmkhal val trtneli viszony, illetve az azokra vonatkoz jogi, kereskedelmi, filozfiai, etikai, vagy politikai selfogs.</para>

A <quote>Nem Vltoztathat szakaszok</quote> olyan <link linkend="fdl-secondary">Msodlagos szakaszok</link>, amelyek cme Nem Vltoztathat szakasznt van megjellege abban a kzlemnyben, amely szerint a a <link linkend="fdl-document">Dokumentum</link> a jelen Licenc hatlya alatt lett kiadva.</para>

A <quote>Bortszvegek</quote> olyan rvid szvegrszek, melyek Cmlapszvegknt, illetve Htlapszvegknt kerlnek felsorolsra a kzlemnyben, amely szerint a a <link linkend="fdl-document">Dokumentum</link> a jelen Licenc hatlya alatt lett kiadva.</para>

A <quote>tltsz</quote> plnny olyan gppel olvashat vltozatot jelent, amely a nyilvanns szmra hozzfrhet formtumban kerl terjesztstre, tovb amelynek tartalma alkalmas a szokvnyos szvzszerkeszt-programokkal, illetve (pixelekbl II kpek esetn) szokvnyos kpmegjelent-programokkal, vagy (rajzok esetn) lthanosan hozzfrhet rajzprogramok segtgv azonnali s kvetten vltoztatsora; tovb olyan formtumban mely alkalmas a szvzszerkeszt kbe val bevitelre, vagy a szvzszerkeszt ltal kezelt formtumokra va automatikus talaktrasra. Egy olyan, egybknt tltsz formtumban kszlt plnny, melynek a jellnyelve vagy ennek hinya gy lett kialakta, hogy megakadlyozza, vagy eltntorsa az olvasket minden tovbbi mdostt, nem tekinthet tltsznak. A nem <quote>tltsz</quote> plnnyok az <quote>tltszatlan</quote> megnevezst kapjk.</para>

Az tltszsg kritriumainak megfelel formtumok kzt megtallhat pldul a jellnyelvet nem hasznl egyszer ASCII, a Texinfo beviteli formtum, a LaTeX beviteli formtum, az SGML vagy az XML egy lthanosan hozzfrhet DTD hasznlatval, s a szabvnynak megfelel, emberi mdostra tervezett egyszer HTML, PostScript vagy PDF. tltsz kpmformtumokra plda a PNG, XCF s a JPG. Az tltszatlan formtumok kz sorolhatak a a szellemi tulajdnt kpez formtumok, amelyeket csak szellemi tulajdnt kpez szvzszerkesztkkel lehet elolvasni, az olyan SGML vagy XML, amelyhez a szksges DTD s/vagy egyb feldolgoz eszkzk nem lthanosan hozzfrhet, s a olyan gpl generlt HTML, PostScript vagy PDF formtum, amely kizrlag egyes szvzszerkeszt kimeneti formtumakt l el.</para>

Az tltszsg kritriumainak megfelel formtumok kzt megtallhat pldul a jellnyelvet nem hasznl egyszer ASCII, a Texinfo beviteli formtum, a LaTeX beviteli formtum, az SGML vagy az XML egy lthanosan hozzfrhet DTD hasznlatval, s a szabvnynak megfelel, emberi mdostra tervezett egyszer HTML, PostScript vagy PDF. tltsz kpmformtumokra plda a PNG, XCF s a JPG. Az tltszatlan formtumok kz sorolhatak a a szellemi tulajdnt kpez formtumok, amelyeket csak szellemi tulajdnt kpez szvzszerkesztkkel lehet elolvasni, az olyan SGML vagy XML, amelyhez a szksges DTD s/vagy egyb feldolgoz eszkzk nem lthanosan hozzfrhet, s a olyan gpl generlt HTML, PostScript vagy PDF formtum, amely kizrlag egyes szvzszerkeszt kimeneti formtumakt l el.</para>

A <quote>Cmlap</quote> magt a cmlapot, illetve brmely azt kieszgt tovbbi oldalt jelli, amely a jelen Licencben elrt cmlaptartalom kzztelhez szksges. Az olyan formtum munknl, amelyek nem rendelkeznek effajta cmlappal, a <quote>Cmlap</quote> a munka cmnek legjobban kiemelt vltozathoz legkzelebb es, m a szveg trzst megel szvzszerkezet jelli.</para>

Egy nyomtatott knyv esetben a <quote>Cmlap</quote> cmlapot, illetve brmely azt kieszgt tovbbi oldalt jelli, amely a jelen Licencben elrt cmlaptartalom kzztelhez szksges. Az olyan formtum munknl, amelyek nem rendelkeznek effajta cmlappal, a <quote>Cmlap</quote> a munka cmnek legjobban kiemelt vltozathoz legkzelebb es, m a szveg trzst megel szvzszerkezet jelli.</sect1>

SZ SZEKINTI SOKSZOROSTS

A dokumentum <link linkend="fdl-document">Dokumentum</link> kereskedelmi, vagy nem kereskedelmi jelleg sokszorostsra s terjesztstre a felhasznlt adathordoz tpustl fggetlenl, feltve, hogy a jelen Licenc, a szerzi jogi figyelmeztet, tovb a Dokumentumot a jelen Licenc hatlya al rendel kzlemn minden pldnnyban egyarnt megjeljenik, s hogy ezekn kvl semmilyen feltelt nem szab meg a szvegh. Nem alkalmazhat olyan technikai eszkzket, amelyekkel megakadlyozhat vagy szablyozhat az n ltal terjesztett pldnny elolvassa vagy sokszorostsa. Mindazonltal elfogadhat ellenszolgltatst a msolatokt cserbe. Amennyiben az n ltal terjesztett pldnnyok szma
meghalad egy bizonyos mennyisget, gy a <link linkend="fdl-section3">3. szakasz</link> feltteleinek is eleget kell tennie.</para>

A fenti feltteleket betartva kicsanzhet is pldn yokat, de akr nyilv nosan is k ztetheti a szveget. </sect1>

<title>SOKSZOROSTS NAGYOB MENNYISGBEN</title>

Amennyiben 100-nl tbb nyomtatott pldn yt (vagy olyan adathordozn talhat pldn yokat, amelyeknek jelmzen van nyomtatott cmlajuk) tesz kzz a <link linkend="fdl-document">Dokumentum</link>, s a dokumentum Licence feltett szabja a Bortszevegek megltt, gy minden egyes pldn yt kteles eltni olyan borta pokkal, amelyeken a kvetkez link teszt <<link linkend="fdl-cover-texts">Bortszevegek</link> tisztn s olvashatan fel vannak tettve: Cmlapszevegek a cmlapon, illetve Htlapszevegek a htlapon. Mindkbt bortlapra egyrtelmen s olvashatan r kell vezetnie a kiat, vagyis jelen esetben az n nevt. A cmlapon a Dokumentum teljes cmnek szerepelnie kell, s a cm minden szavnak egyormn kiemelten s lthatnak kell lennie. Ezen fell, beltsa szerint, tovbbi rszleteket is hozzadhat a bortlapokhoz. Amennyiben az esetleges mdostok kizrlag a bortlapokat rintik, s feltve, hogy a <link linkend="fdl-document">Dokumentum</link> cmplazatlan marad, tovbb a bortlapok megfelelnek minden egyb kvetelmnynek, gy a sokszorosts ett eltekintve sz szerinti sokszorostsnak minsl.</para>

Abban az esetben, ha a bortlapok brmelyikn megkvetett szegvsek tl hossznak bizonyulnak az olvashat kzztelhez, gy csak az elsnt felsorolatkat kell felntetnie (amennyi jzan belts szerint elfr) a tnleges bortn, a tovbbit pedig tkerlhetnek a kvetkez oldalakra.</para>

Amennyiben 100-nl tbb <link linkend="fdl-transparent">pldn yt tesz kzz, vagy terjesz a <link linkend="fdl-document">Dokumentum</link>, gy kteles vagy egy gppel olvashat <link linkend="fdl-transparent">pldn yt</link> <link linkend="fdl-transparent">plnt</link> mellkelni minden egyes tlzatlan pldyhoz, vagy lerni minden egyes tlzatlan pldnynban egy, a mdostatlan tlz pldn yt tartalmaz olyan szmtp-hlzat elrhetsgt, amely elrhet az ltalos hltzi felhasznl szmra, s onnan nyilv nos szgvhlzati protokollok segtgyel a Dokumentum hozzadt anyagok nkli, teljes vltotzat letlthet. Ha az utbbi lehetget vlaszta, kteles gondoskodni arrl, hogy attl a napit kezdve, amikor az utols tlzatlan pldy is terjesztsre kerlt (akr kvetetlen n ltal, akr kiskereskedelmi forgalomban), a fenti helyen kzztett tlz pldn mg legalbb egy vig hozzfrhet legyen a felhasznl szmra.</para>

Megktrjk, mde nem ktelezzk nt arra, hogy minden esetben, amikor nagyobb pldn ysm terjesztsbe kezd, nr jval ezt megelzen lpjen kapcsolatba a <link linkend="fdl-document">Dokumentum</link> szerzivel, annak rdekben, hogy megkaphassa tlk a Dokumentum esetleges jbb vltott.</para>

Mdnnek lehetsge van a <link linkend="fdl-document">Dokumentum</link> <link linkend="fdl-modified">Mdostott</link> Vltotatnak sokszorostsra s terjesztsre a <link linkend="fdl-section2">2.</link> s <link linkend="fdl-section3">3.</link> szakaszok fenti rendelkezsei alapjn, feltve, hogy a Mdostott Vltotat kizrlag jelen Licenc feltteleivel sszhangan teszi kzz, ahol a Mdostott Vltota a Dokumentum szerept tlt be, ezttal lehetget biztostva annak terjesztsre s mdostsa brkinek, aki csak hozzjut egy pldnhoz. Mindezen fell, a Mdostott Vltota az albbi kvetelmnynek is meg kell, hogy feleljene:</para>

<itemizedlist mark="upper-alpha"><item></itemizedlist>
A Cmlapon (s ha van, a bortkon) tntessen fel egy a Dokumentumt (illetve brmely korbbi vltzoattl eltr cmet (amelyeknek, ha vannak, a Dokumentum Elzmnyek szakaszban kell szerepelni). Egy korbbi vltzoat cmt csak akkor hasznthatja, ha annak szerje engedyezte azt.</para>

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A Cmlapon szerzkknt sorolja fel a Mdostott Vltozatban elvgzett vltzoztatsokt felels termzetes vagy jogi szemlyeket, tovbb a Dokumentum f szerzi kzl legkevesebb tt (vagy mindet, ha tnl kevesebben vannak) kivve, ha ezen felttel all k nt felmentik.</para>

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</para>

A Cmlapon a Mdostott Vltozat kzzttelrt felels szemlyt tntesse fel kiadknt.</para>

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Sajt mdostsaira vonatkozan is tegyen kzz egy szerzi jogi megjegyzst, a ttb iilyn jelleg figyelmeztets mellett.</para>

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Rgttn a szerzi jogi figyelmeztetsek kveten tntessen fel egy kzemnyt, az albbi Fggelk mintjra, amelyben engedyezi a Mdostott Vltozat felhasznlat a jelen Licenc feltteleinek megfelelen.</para>

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A fenti kzemnyben hagyja rintetlenl a Nem Vltzothattat szakaszok s a szksges Bortszvegek a jelen Dokumentum licencben elrt teljes listjt.</para>

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Mellkelje a jelen Licenc egy eredeti plnyt.</para>

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Az Elzmnyek elnevez szakaszt, illetve annak cmt szintn hagyja rintetlenl, emellett adjon hozz egy j elemet, amely minimalisan tartalmazza a Mdostott Vltozat cmt, kiad vi, tovbb az j szerz, illetve a kiad nevt, a Cmlapon lthatkhoz hasonlan.
Amennyiben a <link linkend="fdl-document">Dokumentum</link> nem tartalmaz semmiféle <quote>Elzmények</quote> elnevezős szakaszt, gy hozzon ltere egyet, amely tartalmazza a Dokumentum cmt, kiadsi vt, tovább a szerzők, illetve a kiad nevét, a Cmlapon lthatóakon; majd ezt kVen adjon hozz egy j, a Mdostott Vltozatra vonatkozó elemei, a fentiekkel sszhangban.</para>

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</listitem>

<para>Ne tegyen vltoztatsokat a <link linkend="fdl-document">Dokumentumban</link> megadott <link linkend="fdl-transparent">üldött pldny</link> nyilvános hlzati elrhetsgt (ha van ilyen) illeten, vagy hasonlkpp, a Dokumentum alapjul szolgl korbbi vltozatok hlzati helyre vonatkozoz. Ezek az <quote>Elzmnyek</quote> szakaszban is szerepelhetnek. Csak abban az esetben hagyhatja el egyes korbbi vltozatok hlzati elrhetsgt, ha azok legkevesebb ny vvel a Dokumentum elttsz kltek, vagy ha maga az alkot engedlyezzi azt.</para>

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</listitem>

<para>Brmely <quote>Ksznetnyilvnts</quote>, vagy <quote>Ajlnsok</quote>elnevezıs szakasz cmt hagyja rintetlenl, tovbb gondoskodjon arrl, hogy azok tartalma s hangvtele az egyes hozzjrulkat, s/vagy az ajlnsokat illeten vltozatlan maradjon.</para>

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<para>A <link linkend="fdl-document">Dokumentum</link> sszes <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszt hagyja rintetlenl, gy cmket, mint tartalmukat illeten. A szakaszok szmozsa, vagy brmely azzal egyenrtk jells nem tartozik a szakaszcmek kZ.</para>

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<para>Trljn minden <quote>Hozzjruls</quote> elnevezıs szakaszt. Effajta szakaszok nem kpezhetik rszt a <link linkend="fdl-modified">Mdostott Vltozatnak</link>.<para>

</listitem>

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<para>Ne nevezzen t semmilyen ltez szakasz <quote>Hozzjruls</quote> elnevezrsre, vagy olyasmire, amely cmben a <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszokkal tkzhet.</para>

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<para>Ha a <link linkend="fdl-modified">Mdostott Vltozat</link> j bevezet szakaszokat tartalmaz, vagy olyan fggelkeket, melyek <link linkend="fdl-secondary">Msodlagos szakasz</link> minslnek, m nem tartalmaznak a Dokumentumbi szrmaz anyagot, abban az esetben, beltsa szerint, e szakaszok nmelyikt, vagy akr az sszet besorolhatja nem vltoztathatkn. Ehhez nem kell mst tennie, mint felsorolni a szban forg cmeket a <link linkend="fdl-invariant">Mdostott Vltozat</link> licencnek Nem Vltoztathat szakaszok listjban. E cmeknek hatrozottan el kell klnlnie minden egyb szakaszcmnl.</para>

<para>Hozzjruls</quote> elnevezıs szakaszt csak akkor adhat a Dokumentumhoz, ha az kizrlag a <link linkend="fdl-modified">Mdostott Vltozatra</link> utal megjegyszeket tartalmaz pldul msok recenziira vonatkozoz, vagy hogy egy szervezet a szveget egy szabvny mrvd defincijaknt ismerte el.</para>
<para>A csz <link linkend="fdl-document">Dokumentum</link> szerzi s kiadi ezzel a Licenccelem nem jrilnak hozz nev felhasznlsra, a <link linkend="fdl-modified">Mdostott Vltozat</link> <link linkend="fdl-cover-texts">Bortszvegeinek</link> vghoz. Brmely termszetes vagy jogi szemly csak s kizrlag egy Cmlapszveg s egy Htlapszveg rszt adhat (akr kzeitett kereszt) a Dokumentumhoz. Ha a <link linkend="fdl-document">Dokumentum</link> nr rendelkezik Bortszveggel ehhez a vltzathoz, mert korbban n adta hozz, vagy az a szervezet, amelynek neven n fellp, akkor nem adhat hozz msik Bortszveget; a rgit mindazonltal lecserlheti, abban az esetben, ha az azt hozzad korbbi kiad egyrtelmen engedlezi.</para>

<para>A kombint munknak a jelen Licenc mindssze egy pldnyt kell tartalmaznia, az egymssal tfedsben lv <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszok pedig kivlthat egy sszegzett pldnnyal. Amennyiben tbb Nem Vltoztathat szakasz szereplne ugyanazon cmmel, m eltartalommal, gy alaksa t minden egyes szakasz cmt olyan mdon, hogy mg rja zrjelben az eredeti szerz s kiad nevt (ha ismeri) vagy egy egyedi sorszmot. Ha szksges, a Nem Vltoztathat szakaszok cmeivel is vgezze el a fenti mdostsokat a kombinlt munka licencben.</para>

<para>A kombinlt munkban az eredeti dokumentumok sszes <quote>Elzmnyek</quote> elnevezs szakaszt ssze kell olvasztania, miltal egy sszefgg <quote>Elzmnyek</quote> elnevezs szakasz jn ltre; hasonlkpp kell eljrni a <quote>Ksznetnyilvnts</quote>, illetve az <quote>Ajnlsok</quote> elnevezs szakaszok tekintetben. Ugyanakkor minden <quote>Hozzjruls</quote>elnevezs szakaszt trlnie kell.</para>

<para>Tetszse szerint ki is emelhet egy meghatrozott dokumentumot a gyjtemnybl, tovbb terjesztheti azt jelen Licenc feltleitei alapjn, feltve, hogy a szban forg dokumentumhoz mellkeli a jelen Licenc egy pldnyt, s minden egyb tekintetben betartja jelen Licenc elrsait a dokumentum sz szerinti sokszorostsra vonatkozan.</para>
A <link linkend="fdl-document">Dokumentum</link> s annak szorzmaikainak kihívás, vagy fggetlen dokumentumokkal, illetve munkkakkal val szfzése egy kzs trolsi, vagy terjesztési egysgen <quote>gyjtjmenyn</quote> nevezend, amennyiben az szezfz eredmnyekppen rvnyes szerzi jogi felttelek nem krltozjuk nagyobb mrtkben az szezfz felhasznlnak jogait, mint amennyire azt az egyes szzetevk teszik. Amikor a Dokumentum rze egy gyjtjmennynek, akkor a jelen Licenc nem rvnyes a gyjtjmen azon rzeire, amelyek nem a Dokumentumbb szrmaztatott munkk. Amennyiben a <link linkend="fdl-section3">3. szakasz</link> <link linkend="fdl-cover-texts">Bortszvegekre</link> vonatkoz rendelkezse alkalmazhat a Dokumentum e pldnaira, s a Dokumentum a teljes szszegsznek kevesebb, mint felt teszi ki, gy a Dokumentum Bortszvegeit olyan mndon is el lehet helyezni a bortkon, hogy azok csak magt a Dokumentumot fogjk krezre, vagy a bortknek megfelele elektronikus formban, amennyiben a Dokumentum elektronikus formban tallhat. Minden ms esetben a teljes szszegs bortlapjain kell feltntetni a fenti szvegeket.</para>

</sect1>

<title>FORDTS</title>

A fordts egyfajta mdostsnak tekinthet, gy a <link linkend="fdl-document">Dokumentum</link> lefordtott pldnayai a <link linkend="fdl-section4">4. szakasz</link> rendelkezse alapjn terjeszthetk. A <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszok lefordtshoz kln engedlyt kell krni a szerzi jog tulajdonostl, mindazonltal kztethek a lefordott vltozatok is gy, ha az eredeti Nem Vltoztathat szakaszokat is belefoglalja a munkba. E Licenc lefordtsra, valamint minden, a Dokumentumhoz tartoz Licencmmelketre, illetve az esetleges Garancik Kizraira ugyanek az felttelek rvenyenek, vagyis a lefordott vltozatok csak akkor jelenhetnek meg, ha mellette ott vannak az eredeti, angol nyelv Licenc, a mellkletek s kizrsk szvegei is. Amennyiben elrs mutatkozna az eredeti vltozatok, illetve a fords kzt, gy a Licenc, a mellkletek s kizrsk angol nyelv eredetije tekintend mrvadnak.</para>

</sect1>

<title>MEGSZNS</title>

A jelen Licencben egyrtelmen kijellt kereteken kvl tilos a <link linkend="fdl-document">Dokumentum</link> brminem sokszorzosta, mdostsi, tovbbllicencelse, vagy terjesztse. Minden ezzel szembeni sokszorzostsi, mdostsi, tovbbllicencselsi, vagy terjesztsi ksrlet a jelen Licencben meghatrozott jogok automatikus megsznst vonja maga utn. Ugyanakkor azok a felek, akik nn kereszltjutottak msolathoz vagy jogosultsgkhoz, nem veszik el azokat, amg maradktalanul betartjk e Licenc elrsait.</para>

</sect1>

<title>JELEN LICENC JVBENI JAVTSAI</title>

A Licenc minden vltozata egyedi verziszmml van elltva. Ha a <link linkend="fdl-document">Dokumentum</link> jelen Licenc egy konkr, szmozott verzija <quote>vdbrmel yabb verzira</quote> hivatkozik, gy nnek a szban forg vltozat, vagy brmely yabb a Free Software Foundation Ital (nem vzlatknt) kiadott verzi felteleinek kvetsre lehetsge van. Ha a Dokumentum nem ad meg semmilyen verziszmot, gy brmely, a Free Software Foundation Ital valaha (nem vzlatknt) kiadott vltozat megfelel.</para>

</sect1>
Ha a jelen Licencet egy nélkül ri dokumentumban használó, akkor mellékelt hozz a Licenc egy pldnnyt, tovább vezesse ra az alábbi szerzi jogi s licenckzlemnyeket, rgt a cmlapot kveten:</para>

<blockquote>
<para>Copyright (C) V AZ N NEVE.</para>
<para>Engedlyt adunk nnek a jelen dokumentum sokszorosra, terjesztése s/vagy mdostsra a Free Software Foundation ital kiadott GNU FDL 1.1-es, vagy brmely azt kvet verzijnak feltetei alapjn. Nincs <link linkend="fdl-invariant">Nem Vltoztathat</link> szakasz, nincs <link linkend="fdl-cover-texts">Cmlapszveg</link>, nincs <link linkend="fdl-cover-texts">Htlapszveg</link>. A jelen licenc egy pldnnyt a <quote>GNU Free Documentation License</quote> elnevez szakasz alatt tallja.</para>
</blockquote>

<para>Amennyiben nincsenek <link linkend="fdl-invariant">Nem vltoztathat szakaszok</link>, akkor ahelyett a rsz helyett, hogy melyek nem vltoztathatnak, rja azt, hogy <quote>Nem tartalmaz Nem vltoztathat szakaszokat</quote>. Amennyiben nincsenek <link linkend="fdl-cover-texts">Cmlapszvegek</link>, akkor <quote>Cmlapszveg felsorolása</quote> helyett, rja azt, hogy <quote>Cmlapszveget nem tartalmaz</quote>; hasonlan irjon el a <link linkend="fdl-cover-texts">Htlapszveg</link> esetben.</para>

<para>Amennyiben a dokumentum nem egyetelm programkdpldkat is tartalmaz, gy azt javasoljuk, hogy e pldkat egy vlasztsa szerinti szabad szoftver licenc alatt kzlje mint pl dul a <ulink type="http" url="http://www.gnu.org/copyleft/gpl.html"> GNU General Public License</ulink>, hogy lehetv tegye a kdok szabad szoftverekben val alkalmazst.</para>

<sect1 id="fdl-using" label="none">
<title>Figyelem</title>
<para>Copyright (C) V AZ N NEVE.</para>
<para>Engedlyt adunk nnek a jelen dokumentum sokszorosra, terjesztése s/vagy mdostsra a Free Software Foundation ital kiadott GNU FDL 1.1-es, vagy brmely azt kvet verzijnak feltetei alapjn. Nincs <link linkend="fdl-invariant">Nem Vltoztathat</link> szakasz, nincs <link linkend="fdl-cover-texts">Cmlapszveg</link>, nincs <link linkend="fdl-cover-texts">Htlapszveg</link>. A jelen licenc egy pldnnyt a <quote>GNU Free Documentation License</quote> elnevez szakasz alatt tallja.</para>
</sect1>
A jelen licencdokumentumot brki szabadon lemsolhatja s a pontos msolatait terjesztheti, de a mdostsa tilos.</para>

overwrite class="translator">
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sect1 id="preamble" label="none">
<title>Elsz</title>

<para>A legtbb szoftver licencei azzal a szndkkal kszltek, hogy minl kevesebb lehetsget adjanak a szoftver megvltoztatsra s terjesztsre. Ezzel szemben a GNU GPL clja, hogy garantlja a szabad szoftver msolsnak s terjesztsnek szabadsgt, ezltal biztostva a szoftver szabad felhasznlnhatst minden felhasznln szmra.</para>
A szabad szoftver megjellens nem jelenti azt, hogy a szoftvernek nem lehet ra. A GPL licencek elja, hogy garantálja a szabad szoftver msolatainak szabad terjesztst (s e szolgltatsr akr dj felszntst), a forrskd elrhetsgt, hogy brki szabadon mdosthassa a szoftvert, vagy felhasznlha a rszeit j szabad programokban; s hogy msok megismerhessk ezt a lehetsget.</para>

A szerz jogainak vdelmben krltozsokat kell hozni, amelyek megtltjik, hogy brki megtagadhassa ezeket a jogokat msokt, vagy ezekrl val lemondsra knyszertsen brki mst. Ezek a megszorstsk bizonyos felelssgeket jelentenek azok szmra, akik a szoftver msolatait terjesztik vagy mdostjik.</para>

Ha valaki pldul ilyen program msolatait terjeszti, akr ingyen vagy bizonyos szeg fejben, a szoftverre vonatkoz minden jogot tovb kell adnia a fogad feleknek. Biztostani kell tovb, hogy megkapj vagy legalbbis megkapj ass a forrskdot is. s persze ezeket a licencfelleteleket is el kell juttatni, hogy tisztban legyenek a jogaikkal.</para>

A jogok vdelme kt lpsbl lll: <orderedlist numeration="arabic">
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<a> a szoftver szerzi jogainak vdelmb s</a></listitem>
<listitem>
<a> a jelen licenc biztostsbl, amely jogalapot biztost a szoftver msolsra, terjesztsre s/vagy mdostsra.</a></listitem>
</orderedlist></para>

Az egyes szerzk s a magunk vdelmben biztostani akarjuk, hogy mindenki megrtse: a jelen szabad szoftverre nincs jlls. Ha a szoftvert mdostottk s tovbaddtk, akkor mindenkiekn, aki a mdostott vltotapot kapja, tudnia kell, hogy az nem az eredeti, gy a msok h<para>

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</sect1>

A szabad szoftver megjellens nem jelenti azt, hogy a szoftvernek nem lehet ra. A GPL licencek elja, hogy garantálja a szabad szoftver msolatainak szabad terjesztst (s e szolgltatsr akr dj felszntst), a forrskd elrhetsgt, hogy brki szabadon mdosthassa a szoftvert, vagy felhasznlha a rszeit j szabad programokban; s hogy msok megismerhessk ezt a lehetsget.</para>

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A jogok vdelme kt lpsbl lll: <orderedlist numeration="arabic">
<listitem>
<a> a szoftver szerzi jogainak vdelmb s</a></listitem>
<listitem>
<a> a jelen licenc biztostsbl, amely jogalapot biztost a szoftver msolsra, terjesztsre s/vagy mdostsra.</a></listitem>
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A msolsra, terjesztsre, mdostsra vonatkoz pontos szablyok s felttelek:</sect1>
</sect1>

Ez a licenc minden olyan programra vagy munkra vonatkozik, amelynek a szerzi jogi megjegyzsben a jog tulajdonosa a kvetkez szveget helyezte el: a GPL-ben foglaltak alapjn terjeszthet. Az albbiakban a Program kifejezs brmely ileny programra vagy munkra vonatkozik, a Programon alapul munka pedig magt a programot vagy egy szerzi joggal vdtt munkt jelenti: vagyis olyan munkt, amely tartalmazza a programot vagy annak egy rszlett, mdostottan vagy mdostatlanul s/vagy ms nyelvrev fordva. (Az albbiakban a fordts minden egyb megkts nlkl beletartozik a mdosts</sect1>

Minden engedelyezs cmzettje n</quote></para>
A jelen licenc a msolson, terjesztőn és megjelenésének nem vonatkozik, azok a hatllyn kvl esnek. A Program futtatsa nincs korlózva, illetve a Program kimenetre is csak abban az esetben vonatkozik ez a szabályozás, ha az tartalmazza a Programon alapul munka egy rszlet (fgetten attl, hogy ez a Program futtatsval jtt-e ltre). Ez teht a Program mkdstl fgg.</br></sect2></br><sect2 id="sect1" label="1" title="1. szakasz"></sect2><br><para>A Program forrszdja mkdstl msolhat s brmely adathordozon terjeszthet, feltve, hogy minden egyes pldnyn pontosan szerepel a megfelel szerzi jogi megjegyz, illetve a garanciavllals elutasta; rinttetlen kell hagyni minden erre a szabályozsra s a garancia teljes hinyra utal szveget s a jelen licencdokumentumot is el kell juttatni mindazokhoz, akik a Programot kapj.</br></para></sect2><br><sect2 id="sect2" label="2" title="2. szakasz"></sect2><br><para>A Program vagy annak egy rsze mdosthat, gy a Programon alapul munka jn ltre. A mdosts ezutn az <link linkend="sect1">1. szakaszban</link> adott felttelek szerint tovbb terjeszthet, ha az albbi felttelek is teljeslnek:<br><orderedlist numeration="loweralpha"> <listitem><para>A mdostott fjlokat el kell ltni olyan megjegyzssel, amely feltnteti a mdostst vgz nevt s a mdostsok dtumt.</para></listitem><listitem><para>Minden olyan munkt, amely rszben vagy egzsben tartalmazza a Programot vagy a Programon alapul, olyan szabályokkal kell kiadni vagy terjeszteni, hogy annak hasznlati joga harmadik szemly rszre licencdjmentesen hozzfrhet legyen, a jelen dokumentumban tallhat feltteleknek megfelelen.</para></listitem><listitem><para>Ha a mdostott Program interaktv olvassa a parancskat futs kzben, akkor gy kell elkszteni, hogy a megsozkott mdon trtn inditko megjelentsen egy zenetet a megfelel szerzi jogi megjegyzssel s a garancia hinyra utal klszel (vagy ppen azzal az informcival, hogy miknt juthat valaki garancihoz), illetve azzal az informcival, hogy brki terjesztheti a Programot a jelen feltteleknek megfelelen, s arra is utalst kell tenni, hogy a felhasznl miknt tekintheti meg a licenc egy pldnnyt. <note><title>Kivtel:</title><para>ha a Program interaktv ugyan, de nem jelent meg hasonl zenetet, akkor a Programon alapul munknak sem kell ezt tennie.</para></note></para></listitem><listitem><para>Ezek a felttelek a mdostott munkra, mint egzsre vonatkoznak. Ha a munka azonosthat rszei nem a Programon alapulnak s fgetten munkkknt elknlt azonosthat, akkor ez a szabályozs nem vonatkozik ezekre a rszekre, ha azok kln munkaknt kerlnk terjesztsre. Viszont, ha ugyanez a rsz az egzsz rszeknt kerl terjesztsre, amely a
E szükségeknek teht nem az a célja, hogy mskogait elvegye vagy korlózza a kizárás sajta maga ital rt munkkra; a cl az, hogy a jogok gyakorlása szabályozva legyen a Programon alapul illetve a gyjtemnyes munkk terjesztése esetben.</para>

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Ezenkívül ms munkknak, amelyek nem a Programon alapulnak, a Programm (vagy a Programon alapul munkval) kzs adathordozor vagy adattrol szerepeltetse nem jelenti a jelen szabályok rvnyessgt azokra is./para>
</sect2>

3. szakasz

A Program (vagy a Programon alapul munka a 2. szakasznak megfelelen) msohat s terjeszthet trygkyk vagy vgrehajthat kds formjban az 1. szakaszban s a 2. szakaszban foglaltak szerint, amennyiben az albbi felttelek is teljesnek: <orderedlist numeration="loweralpha">
  <listitem>
    a teljes, gp ital rtlemezhet forrskd ksr az anyagot, amelynek terjesztse az 1. szakaszban s a 2. szakaszban foglaltak szerint sztforrsterjesztse szolgaltathato az anyagot; vagy,
  </listitem>
  <listitem>
    legalbb hrom vre szlan rsban vllalja, hogy brmely kls szemlynek rendelkezsre ll a teljes gp ital rtlemezhet forrskd, a fizikai tovbbtst fedez szegnl nem nagyobb djrt az 1. s 2. szakaszban foglaltak szerint sztforrsterjesztse szolgaltathato az anyagot; vagy,
  </listitem>
  <listitem>
    a megfelel forrskd terjesztse vonatkozan megkapott tjkoztats ksr az anyagot. (Ez az alternatva csak nem kereskedelmi terjeszt esetn alkalmazhat abban az esetben, ha a terjeszt a Programhoz a trygkyk vagy forrskd formjban jutott hozz az ajnlattal egyt a fenti b. cikkelynek megfelelen.)
  </listitem>
</orderedlist>

Egy munka forrskdja a munknak azt a formjat jelenti, amelyben a mdostokat elslegesen vgezni szoks. Egy vgrehajthat program esetben a teljes forrskd a tartalmazott sszes modul forrskdjt jelenti, tovbb a kapcsold felletdefincis fílokot s a fordst vezr parancsfílokot. Egy specilis kivételknt a forrskdnak nem kell tartalmaznia norml esetben a vgrehajthat kds szolgol opercis rendszer fbb rszeiknt (kernel, fordprogram stb.) terjesztett rszeit (forrs vagy binris formban), kivve, ha a komponens meg a vgrehajthat llomnyt ksr.

Ha a vgrehajthat program vagy trykkyk terjesztse a forrskd hozzfrst egy megadott helyen biztost rsban vllalja, akkor ez egyenr tk a forrskd terjesztse, br msoknak nem kell a forrst lemsolniuk a trykkykkal egyt. (Para>
</sect2>

4. szakasz
A Programot csak a jelen Licencben laktaknak megfelelően szabad lemezlőni, terjeszteni, mdostani s allicencbe adni. Az egyb mdon trtn msols, mdosts, terjeszts s allicencbe ads rvnytelen, s azonnal rvnytelenl a dokumentumban megadott jogosultsgokat. Mindazonltal azok, akik a Licencet megszegtl kaptak plnyokat vagy jogokat, tovbb gyakorolhatjik a Licenc Itl meghatrozott jogaikat mindaddig, amg teljesen megfelelnek a Licenc feltteleinek. </para>

5. szakasz

Minden alkalommal, amikor a Program (vagy az azon alapul munka) tovbbadsa trtnik, a Programot megkap szemly automatikusan hozzjut az erdei licencutalajdonostl szrmaz licenchez, amely a jelen szablyok szerint biztostja a jogot a Program msolsra, terjesztsre s mdostsra. Nem lehet semmilyen mdon tovbb korltozni a fogad fnek az itt megadott jogait. A Program tovbbadja nem felels harmadik szemlyekkel betartatni a jelen szablyokat. </para>

6. szakasz

Ha brsgi hatrozat, szabadalomsrts vlelme, vagy egyb (nem kizrlag szabadalmakkal kapcsolatos) okbl olyan feltteleknek kell megfelelnie (akr brsgi hatrozat, akr megllapods, akr brmi ms eredmnyekpp), amelyek ellentesek a jelen felttelekkel, az nem menti fel a terjeszt a jelen felttelek figyelembevele all. Ha a terjeszt nem lehetsges a jelen Licenc s az egyb felttelek ktelezettsgeinek egyttes betartsval, akkor tilos a Program terjesztse. Ha pldul egy szabadalmi szerzs nem engedi meg egy program jogd nlki tovbbterjesztst azok szmra, akik kztvetve vagy kztvetlenl megkapjik, akkor az egyetlen mdja, hogy eleget tegyen valaki mindkt felttelnek az, hogy elll a program terjesztstl. </para>

7. szakasz

Ha ennek a szakasznak brmely rsze rvnytelen, vagy nem rvnyesthet valamely krlmny folytn, akkor a szakasz maradk rszt kell alkalmazni, egyb esetekben pedig a szakasz egssze alkalmazand. </para>

Ennek a szakasznak nem az a clja, hogy a szabadalmak vagy egyb hasonl jogok megsrtse sztnzn brk is; mindssze meg szeretn vdeni a szabad szoftver terjesztsei rendszernek egysgt, amelyet a szabad kzreadst szablyoz feltelrendszek teremtenek meg. Sok ember nagymrtkben jrult hozz az e rendszer keretben terjesztett, klnfe szoftverekhez, s szm a rendszer kvetkezetes alkalmazsra; azt a szer/adomnyoz dnti el, hogy a szoftvert ms rendszer szerint is kzz kvnj-e tenni, s a licencet kapk ezt nem befolyoshatjik. </para>
E szakasz clja, hogy pontosan tisztszza azt, ami elgondoljunk szerint a jelen licenc tbbi résznek a kvetkezmnnye.

Ha a Program terjesztse s/vagy hasznalata egyes országokban nem lehetséges akr szabadalmak, akr szerzi jogokkal vdett felletek miatt, akkor a Program szerzi jogainak eredeti tulajdonosa, aki a Programot ezen szabályozs alapján adja kozre, egy explicit fildrajzi megktst adhat adat a terjesztésre, s egyes országokat kizrhathat. Ebben az esetben gy tekintend, hogy a jelen licenc ezt a megktst is tartalmazza, ugyangy mintha csak a f szvegben lenne lerva.

A dokumentum minden vltota egy megklnbztat verzisszmmal ellva jelenik meg. Ha a Program szerzi jogi megjegyzsben egy bizonyos vagy annl jabb verzi van megjelölve, akkor lehetsg van akr a megjelt verzi, vagy a Free Software Foundation tilal kiadott kbppi vltaban lert felttelek kvtser. Ha nincs ilyen megjelt verzi, akkor lehetsg van a Free Software Foundation tilal valaha kibocstott brmelyik dokumentum alkalmazsra.

A Programot ms szabad szoftverbe, amelynek szerzi jogi szabályozs klnbzik, csak akkor ptheti be, ha a szerzl erre engedlyt szerzett. Abban az esetben, ha a program szerzi jogainak tulajdonosa a Free Software Foundation, akkor a Free Software Foundation cmre kell nni; nha kivtels tesznek. A dnts a kvetkez kt cl szem elt tartval f trtni: megmaradjon a szabad szoftveren alapul munk szabad llapota, valamint segtse el a szoftver jrafelhasznlst s megosztst.

MIVEL A JELEN PROGRAM HASZNALATI JOGA DJMENTES, AZ ALKALMAZHAT JOGSZABLYOK LTAL BIZTOSTOTT MAXIMLIS MRKBEN VISSZAUTASTJUK A PROGRAMHOZ A GARANCIA BIZTOSTST. AMENNYIBEN A SZERZI JOGOK TULAJDONOSAI RSBAN MSKNT NEM NYILATKOZNAK, A PROGRAM A <quote>JELEN LLAPOTBAN</quote> KERL KAIDSRA, MINDENFLE GARANCIAVLLALS NLKL, LEGYEN AZ KIFEJEZETT VAGY BELELTTETT, BELELTV, DE NEM KIZRLAGOSAN A FORGALOMBA HOZHATSGRA VAGY ALKALMAZHATSGRA VONATKOZ GARANCIKAT. A PROGRAM MINSGBL S MKDSBL FAKAD SSZES KOCKZAT A FELHASZNLT
TERHÉLI. HA A PROGRAM HIBSAN MKDIK, A FELHASZNLNAK MAGNAK KELL VLLALNIA A JAVTSHOZ SZKSGES MINDEN KLTSGET.</para>

<title>12. szakasz</title>

<para>AMENNYIBEN A HATLYOS JOGSZABLYOK VAGY A SZERZI JOGOK TULAJDONOSAI RSOS
MEgliAPODSBAN MSKNT NEM RENDELKEZNEK, SEM A PROGRAM SZERZIE, SEM MSOK, AKIK
MDOSTOTTK S/VAGY TERJESZTETTK A PROGRAMOT A FENTIEKNEK MEGFELELEN, NEM TEHETK
FELELSS A KROKRT, BELERTVE MINDEN VLETLEN, VAGY KVETKEZMNYES KRT, AMELY A
PROGRAM HASZNLATBL VAGY A HASZNLAT MEGAKADLYOZSBL SZRMAZIK (BELERTVE, DE NEM
KIZRLAGOSAN AZ ADATVESZTST S A HELYTELEN ADATFELDOLGOZST, VALAMINT A MS
PROGRAMOKKAL VAL HIBS EGYTTMKDST), MG AKKOR SEM, HA EZEN FELEK TUDATBAN
VOLTAK, HOGY ILYEN KROK KELETKEZHETNEK.</para>
<date>1991-06</date>
</revision>
</revhistory>

<legalnotice id="legalnotice">
  <para>
    Koprovn a distribuce doslovnch kopi tohoto licennho dokumentu jsou dovoleny komukoliv, jeho zmny jsou vak zakzny.
  </para>
</legalnotice>

<releaseinfo>esk peklad verze 2, erven 1991</releaseinfo>

<abstract role="description">
  Softwarov licence jsou vtinou navreny tak, e vm odebraj prvo svobodnho sdlen a prav program. Smyslem GNU General Public License je naproti tomu zaruit svobodu ke sdlen a pravm svobodnho softwaru - pro zajitn svobodnho pstupu k tomuto softwaru pro vechny jeho uivatele.
</abstract>

<sect1 id="preamble" label="none">
  <title>Preambule</title>
  <para>Softwarov licence jsou vtinou navreny tak, e vm odebraj prvo svobodnho sdlen a prav program. Smyslem GNU General Public License je naproti tomu zaruit svobodu ke sdlen a pravm svobodnho softwaru - pro zajitn svobodnho pstupu k tomuto softwaru pro vechny jeho uivatele. Tato General Public License se vztahuje na vtinu softwaru nadace Free Software Foundation a na jakkoli jin program, jeho autor se piklon k jejmu pouvn. (Nkter dal software od Free Software Foundation je namsto toho pokryt GNU Lesser General Public License.) Mete ji rovn pout pro sv programy.</para>

  <para>Pokud mluvme o svobodnm softwaru, mme na mysli svobodu, nikoliv cenu. Nae General Public License je navrena pro zajit toho, e mete svobodn it kopie svobodnho softwaru (a tovat si poplatek za tuto slubu, pokud chcete), e obdrte zdrojov kd anebo jej mete zskat, pokud ho chcete, e mete tento software modifikovat nebo jeho sti pout v novch svobodnch programech; a e vte, e tyto vci smte dlat.</para>

  <para>Abychom mohl vae prva chnit, musme vytvoit omezen, kter zak komukoli vm tato prva odeprat nebo vs dat, abyste se tchto prv vzdat. Tato omezen se promtaj do jistch povinnost, kterm muste dostt, pokud te kopie dotynho softwaru anebo ho modifikujete.</para>

  <para>Napklad, te-li kopie takovho programu, a ji zdarma nebo za poplatek, muste poskytnout pjemcm vechna prva, kter mte sm. Muste zaruit, e pjemci rovn dostanou anebo mohou zskat zdrojov kd. A muste jim ukzat tyto podmnky, aby znali sv prva.</para>
</sect1>
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- copyright the software, and
- offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Kvli ochran kadho autora i ns samotnch chceme zajistit, aby kad chpal skutenost, e pro svobodn software neplat dn zruky. Je-li software nkm jinm modifikovn a posln dle, chceme, aby pjemci vdli, e to, co maj, nen originl, take jakkoliv problmy vnesen jinmi se neodraz na reputaci pvodnch autor.

Konen, kad svobodn program je neustle ohroen softwarovmi patenty. Pejeme si zamezit nebezpe, e redistribuitor svobodnho programu obdr samostatn patentov osvden a tm uin program vzann. Abychom tomu zamezili, deklarovali jsme, e kad patent mus bt bu vydn s tm, e umouje kadmu svobodn uit, anebo nesm bt vydn vbec.

Pesn ustanoven a podmnky pro koprovn, en a modifikaci jsou uvedeny dle.
Směte koprovat a it doslovn kopie zdrojovho kdu programu tak, jak jste jej obdrel a na libovolnm mdu, za pedpokladu, e na kad kopii viditeln a nleit zveejnte zmnu o autorskch prvech a absenci zruky; ponechte nedoten vechny zmny vztahuje se k tto licenci a k absenci zruky; a dte kadmu pjemci spolu s programem kopii tto licence.

Za fyzick akt penesen kopie mete dat poplatek a podle vlastnhho uven mete nabdnout za poplatek zrun ochranu.

You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

Exception:
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.

</para>
</note>

</para>
</listitem>
</orderedlist>
</para>

<Tyto poadavky se vztahuj k modifikovanmu dlu jako celku. Pokud lze identifikovat sti takovho dla, kter zejm nejsou odvozeny z programu a mohou bt samy o sob rozumn povaosny za nezvisl a samostatn dla, pak se tato licence a jej ustanoven nevztahuj na tyto sti, jsou-li eny jako nezvisl dla. Avak jakmile tyt sti roziujete jako st celku, jin je dlo zaloen na programu, mus bt roziovn tohoto celku podzeno ustanovenm tto licence tak, e povolen poskytnut dalm uivatelmu se roz na cel dlo, tedy na vechny jeho sti bez ohledu na to, kdo kterou st napsal.</para>

</para>Smyslem tohoto paragrafu tedy nen zskn prv na dlo zcela napsan vm ani poprn vaich prv vi nmu; skutenm smyslem je vkon prva na zen distribuce odvozench nebo kolektivnch dl zaloench na programu.</para>

</para>Pouh spojen jinho dla, je nen na programu zaloeno, s programem (anebo dlem zaloenm na programu) na pamovm nebo distribunm mdii neuvazuje toto jin dlo do psobnosti tto licence.</para>

</sect2>

<sect2 id="sect3" label="3">
<title>Paragraf 3</title>

</sect2>

You may copy and distribute the Program (or a work based on it, under Sections 2</para>) in object code or executable form under the terms of Sections 1</para> and Sections 2 above provided that you also do one of the following:

<orderedlist numeration="loweralpha">
<li>Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and Sections 2 above on a medium customarily used for software interchange; or,
</li>
<li>Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

Zdrojov kd k dlu je nejvhodnej formou dla z hlediska jeho ppadnch modifikac. Pro dlo ve spustitelnm tvaru znamen pln zdrojov kd veker zdrojov kd pro vechny moduly, kter obsahuje, plus jakkoli dal soubory pro definici rozhran, plus dvkov soubory potebn pro kompilaci a instalaci spustitelnho programu. Zvln vjmkou jsou vak ty softwarov komponenty, kter jsou normln eny (bu ve zdrojov nebo binrn form) s hlavnmi soustmi operanho systmu, na nm spustiteln program b (tj. s pekladaem, jdrem apod.). Tyto komponenty nemus bt eny se zdrojovm kd, pokud ovem komponenta sama nedoprovz spustitelnou podobu dla.

Je-li en objektovho nebo spustitelnho kdu inno nabdkou pstupu ke koprovn z uritho msta, potom se za distribuci zdrojovho kdu pot i nabdnut ekvivalentnho pstupu ke koprovn zdrojovho kdu ze stejho msta, by pitom nejsou tet strany nuceny ke zkoprovn zdrojovho kdu spolu s objektovm.

Nesmte koprovat, modifikovat, poskytovat sublicence anebo it program jinm zpsobem ne vslovn uvedenm v tto licenci. Jakkoli jin pokus o koprovn, modifikovn, poskytnut sublicence anebo en programu je neplatn a automaticky ukon vae prva dan touto licenc. Strany, kter od vs obdrely kopie anebo prva v souladu s touto licenc, vak nemaj sv licence ukonen, dokud se jim pln podizuj.

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Pokad, kdy redistribuujete program (nebo dlo zaloen na programu), zskv pjemce od pvodho dritele
licence prvo koprovat, modifikovat a it program v souladu s tmito ustanovenmi a podmnkami. Nesmte klst dn dal pekky vkou zde zaruench pjemcovch prv. Nejste odpovdn za vymhn dodrovn tto licence temi stranami.</para>
</sect2>

<sect2 id="sect7" label="7">
<title>Paragraf 7</title>

<para>Jsou-li vm z rozhodnut soudu, obvinnm z poruen patentu nebo z jakhokoli jinho dvodu (nejen v souvislosti s patenty) uloveny takov podmnky (a ji pkazem soudu, smlouvou nebo jinak), kter se vyluuj s podmnkami tto licence, nejste tm osvozen od podmnek tto licence. Pokud nemete it program tak, abyste vyhov zrove svm zvazk vyplvajcim z tto licence a jinm platn zvazk, nesmte jej v dsledku toho it vbec. Pokud by napkad patentov osven nepovolovalo bezplatnou redistribuci programu vemi, kdo vam piinnm zskaj pmo nebo nempjeho kopie, pak by jedin mon zpob jak vyhov zrove patentovmu osvden i tto licenci spoval v ukonen distribuce programu.</para>

<para>Pokud by se za njakch specifickch okolnost jevila nkter st tohoto paragrafu jako neplatn nebo nevynutiteln, povauje se za smrodatnou rovnovha vyjden tmto paragrafem a paragraf jako celek se povauje za smrodatn za jinch okolnost.</para>

<para>Smyslem tohoto paragrafu nen navdt vs k porouv patent i jinch ustanoven vlastnickho prva, anebo tato ustanoven zozychbvat; jedinnm jeho smyslem je ochrana integrity systmu en svobodnho softwaru, kter je podloen veejmi licennmi pedpisy. Mnoz lid poskytli sv psypky do irokho okruhu softwaru enho tmto systmem, spolehnuve se na jeho dsledn uplatovn; zle na autorovi/drci, aby rozhodl, zda si peje it software pomoc njakho jinho systmu a dn uivatel licence neme takov rozhodnut zpochybovat.</para>

<para>Smyslem tohoto paragrafu je zevrubn osvtlit to, co je povaovno za dsledek plynouc ze zbytku tto licence. </para>
</sect2>

<sect2 id="sect8" label="8">
<title>Paragraf 8</title>

<para>Pokud je en i pouit programu v nkterch zemch omezeno bu patenty anebo autorsky chrnnmi rozhranmi, me dritel pvodnch autorskch prv, kter svuje program do psobnosti tto licence, pidat vslovn omezen pro geografick en, vyluujc takov zem, take en je povoleneno jen v tch zemch nebo mezi tmi zemmi, kter nejsou tmto zpobem vyloueny. Tato licence zahrnuje v tomto ppad takov omezen pesn tak, jako by bylo zapsno v textu tto licence.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Paragraf 9</title>

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<para>Kad verzi je pidleno rozliuje slo verze. Pokud program specifikuje slo verze, kter se na nj vztahuje, a vechny nsledujc verze, mete se podle uven dit ustanovenmi a podmnkami buto on konkrtn verze
anebo kterkoliv nsledující verze, kterou vydala Free Software Foundation. Jestliže program nespecifikuje slo verze tto
licence, mete si vybrat libovolnou verzi, kterou kdy Free Software Foundation vydala.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Paragraf 10</title>

<para>Pokud si pejete zahrnout sti programu do jinich svobodných program, jejich distribuční podmínky jsou odlišně,
zaleté autorovi dost o povolení. V ppad softwaru, k nmu vlastn autorsk prva Free Software Foundation, napíte Free
Software Foundation; někdy imme výměky ze zde uvedených ustanoven. Nae rozhodnut bude vedeno dvma clí:
znachován svobodn povahy vech odvozenin naeho svobodnho softwaru a podporou sdělen a optovnho vyvít softwaru
obecn.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>ZRUKA SE NEPOSKYTUJE</title>

<subtitle>Paragraf 11</subtitle>

<para>VZHLEDEM K BEZPLATNEMU POSKYTNU LICENCE K PROGRAMU SE NA PROGRAM
NEVZTAHUJE DN ZRUKA, A TO V ME POVOLEN PLATN ZKONEM. POKUD NEN PSEMNE
STANOVENO JINAK, POSKYTUJ DRITEL AUTORSKCH PRV POPPAD JIN STRANY PROGRAM
TAK, JAK JE</quote>, BEZ ZRUKY JAKHOKOLI DRUHU, A VSLOVN NEBO VYPLVAJC, VETN,
ALE NIKOLI JEN, ZRUK PRODEJNOSTI A VHODNOSTI PRO URIT EL. POKUD JDE O KVALITU A
VKONNOST PROGRAMU, LE Veker vekov na VS. POKUD BY SE U PROGRAMU PROJEVILY
ZVADY, PADAJ NKLADY ZA VECHNU POTEBNOU DRBU, OPRAVU I NPRAVU NA V VRUB.</para>
</sect2>

<sect2 id="sect12" label="12">
<title>Paragraf 12</title>

<para>V DNEM PPAD, S VJIMKOU TOHO, KDY TO VYADUJE PLATN ZKON, ANEBO KDY TO BYLO
ODSOUHLASENO, VM NEBUDE DN Z DRITEL AUTORSKCH PRV ANI DN JIN STRANA, KTER
SM MODIKOVAT I IT PROGRAM V SOUADU S PEDCHOZMI USTANOVNEMI, ODPOVNDI ZA
KODY, VETN VECH OBECNCH, SPECILNCH, NAHODILCH NEBO NSLEDNCH KOD VYPLVAJCCH Z
UVN ANEBO NESCHOPNOSTI UVAT PROGRAMU (VETN, ALE NIKOLI JEN, ZTRTY NEBO ZKRESLEN
DAT, NEBO TRVALCH KOD ZPSOBNCH VM NEBO TETM STRANM, NEBO SELHN FUNKCE
PROGRAMU V SOUINNOSTI S JINMI PROGRAMI), A TO I V PPAD, E TAKOV DRITEL AUTORSKCH
PRV NEBO JIN STRANA BYLI UPozORNNI NA MONOST TAKOVCH KOD.</para>
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</sect1>
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<sect1 id="fdl-section3" label="3">
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<sect1 id="fdl-using" label="none"
<title>Anhang</title>
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In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
</para>

<para>
Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
</para>

<para>
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a <quote>work based on the library</quote> and a <quote>work that uses the library</quote>. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
</para>

</sect1>

<sect1 id="terms" label="none">
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<sect2 id="sect0" label="0">
<title>Section 0</title>
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</para>

<para>
A <quote>library</quote> means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
</para>

<para>
The <quote>Library</quote>, below, refers to any such software library or work which has been distributed under these terms. A <quote>work based on the Library</quote> means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term <quote>modification</quote>.)

</para>

<para>
<quote>Source code</quote> for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Section 1</title>
<para>
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</para>

</sect2>

<sect2 id="sect2" label="2">
<title>Section 2</title>
<para>
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Section 1 above, provided that you also meet all of these conditions:

<orderedlist numeration="loweralpha">
  <listitem>
    <para>
      The modified work must itself be a software library.
    </para>
  </listitem>
  <listitem>
    <para>
      You must cause the files modified to carry prominent notices
      stating that you changed the files and the date of any change.
    </para>
  </listitem>
  <listitem>
    <para>
      You must cause the whole of the work to be licensed at no
      charge to all third parties under the terms of this License.
    </para>
  </listitem>
  <listitem>
    <para>
      If a facility in the modified Library refers to a function or a
      table of data to be supplied by an application program that uses
      the facility, other than as an argument passed when the facility
      is invoked, then you must make a good faith effort to ensure that,
      in the event an application does not supply such function or
      table, the facility still operates, and performs whatever part of
      its purpose remains meaningful.
    </para>
  </listitem>

  <para>
    (For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application. Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)
  </para>

  <para>
    These requirements apply to the modified work as a whole. If
    identifiable sections of that work are not derived from the Library,
    and can be reasonably considered independent and separate works in
    themselves, then this License, and its terms, do not apply to those
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distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
</para>

<para>
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
</para>

<para>
In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
</para>

</sect2>

<sect2 id="sect3" label="3">
<title>Section 3</title>

<para>
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that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
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</para>

<para>
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subsequent copies and derivative works made from that copy.
</para>

<para>
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You may copy and distribute the Library (or a portion or
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1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a work that uses the Library. Such a work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a work that uses the Library with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a work that uses the
library. The executable is therefore covered by this License.
Section 6 states terms for distribution
of such executables.
When a work that uses the Library uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

<orderedlist numeration="loweralpha">
<listitem>
  <para id="sect6a">
    Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and above); and, if the work is an executable linked with the Library, with the complete machine-readable <quote>work that uses the Library</quote>, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
  </para>
</listitem>
<listitem>
  <para>
    Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
  </para>
</listitem>
<listitem>
  <para>
    Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a , above, for a charge no more than the cost of performing this distribution.
  </para>
</listitem>
<listitem>
  <para>
    If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
  </para>
</listitem>
</orderedlist>
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
<para>
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
</para>
</listitem>
</sect2>

<sect2 id="sect8" label="8">
<title>Section 8</title>

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<sect2 id="sect9" label="9">
<title>Section 9</title>

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<sect2 id="sect10" label="10">
<title>Section 10</title>

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</para>

<sect2 id="sect11" label="11">
<title>Section 11</title>

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<para>
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</para>

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<sect1 id="sect16" label="16">
<title>Section 16</title>

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Zure eskubideak babesteko, banatzaileek zuri eskubide hauke ukatzea edo eskubide horiei uko eginaraztea debekatzeko eta eragoztzeko mugak jarri behar ditugu. Mugaketa horien ondorioz, liburutegia aldatu edo kopiatik banatzen badituzu, zenbait erantzukizun hartuko dituzue zure gain.

Adibidez, liburutegiaren kopiatik banatzen badituzu, bai doan eta bai kuota baten truke, eman dizkizugun eskubide guztiak eman behar dizkiezu hartzaileei. Haiek ere iturburu-kodeak jasotzen dutela edo jaso dezaketeletako ziurtatbea edo erabilera modificatu arazoa ematen dutela, beste kodetan erabili, objektu-fitxategi guztiak eman behar dizkiezu hartzaileei, haiek ere liburutegiari estekatu ditzaten, liburutegiarekin jakin egin eta berriro konpilatu ondoren. Eta baldintza hauek erakutsi behar dizkiezu, zer eskubide dituzten jakin dezaten.</p>

Bi urratsez osatutako metodoa anek dago: (1) liburutegiarekiko erregistratzen ditugun eskubideak erregistratzen ditugu, eta (2) liburutegi kopiatzeko, banatzeko eta/edo aldatzeko legezko baimena ematen ditzun lizentzia eskaintzen dizugu.

Banatzaileak babesteko, argi utzi nahi dugu liburutegi libreak ez duela bermerik. Norbaitek liburutegia aldazten eta banatzen badu, haiek jaio behar dute haiek dutena edo dela jatorrizko bertsioa, eta, beraz, besteran batek sortutako arazoei ez dutela jatorrizko egilearen ospea kaltetuko.

Azkenik, software-patenteak etengabea dira programa librearen aurrekontua, GNU softwarearen zati handiena, liburutegi batzuk garai, GNU Lizentzia Publiko Ororokaren baldintzepean dago. GNU Hedadura Txikiagoko Lizentzia Publiko Ororokoa liburutegi jakin batzuei aplikatzen zaie, eta Lizentzia Publiko Ororokorretik asko desberdintzen da. Lizentzia hori liburutegi batzuetan erabiltzeko programa libreak ez diren programen liburutegietara estekatu ahal izateko.

Programa bat liburutegi batekin estekatuta dagoenean, estatistikoki nahiz liburutegi partekatua erabiliz, bi horien lotura lan konbinatua da legalki hitz eginez, hau da, jatorrizko liburutegiaren eratorria. Lizentzia Publiko Ororokoa arruntak estekatze horiek egiteko baimena ematen du, betiere, konbinaio osos askatasun-irizpidearekin bat
badator. Hedadura Txikiagoko Lizentzia Publiko Ororarak irizpide malguagoa eskaintzen du beste kode batzuk liburutegiarekin estekatzea.


Beste kasu batzuetan, liburutegi jakin bat programa ez-libreetan erabiltzeko baimena emateak software librean jende gehiagok ematea ahalbidetzen du. Adibidez, GNU C Liburutegia programa ez-libreetan erabiltzeko baimenari esker, jende gehiagok ematea GNU sistema eragile osoa eta bere aldaera, hau da, GNU/Linux sistema eragilea.

Hedadura Txikiagoko Lizentzia Publiko Ororak erabilzailearen askatasuna gutxiago babestu arren, liburutegiarekin estekaturatuko programa baten erabiltzaleari programa hori liburutegiaren bertsio aldatu batean erabiltzeko askatasun eta baliabideak ematen dizkie.

KOPIATZEKO, BANATZEKO ETA ALDATZEKO BALDINTZAK


KOPIATZEKO, BANATZEKO ETA ALDATZEKO BALDINTZAK
Liburutegiaren zati bat daukan lana, bai kopia literalra, bai aldaketak dituen kopia, bai beste hizkuntza batera itzulitakoa. (Aurrerantzean, itzulpena <quote>aldaketa</quote> terminoaren baitan sartuko da inongo mugarik gabe.)</para>


Liburutegiaren iturburu-kode osoa jaso bezala kopiatu eta banatu dezakezu edozein euskarritan, baldin eta kopia bakoitzari behar bezala eta ikusteko moduan jartzen badiozu egile-eskubideen oharra eta bermerik ez duela dioen oharra; Lizentziari eta bermerik ezari dagozkion ohar guztiek oso-osorik uzten badituzu; eta Lizentziaren kopia Liburutegiaren batera banatzen baduzu.</para>

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<listitem>
<listitem>
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</listitem>

<para>(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)</para>

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</para>
</listitem>
</orderedlist>
</sect2>

<sect2 id="sect3" label="3">
<title>3. atala</title>

<para>Liburutegiaren kopia bati GNU Lizentzia Publiko Orokorren baldintzak aplikatzea hauta dezakezu, Lizentzia hau aplikatu beharrean. Horretarako, Lizentzia horri erreferentzia egiten dioten ohar guztiak aldatu behar dituzu, GNU Lizentzia Publiko Orokor arruntaren 2. bertsioari erreferentzia egin diezainten, Lizentzia honi egin beharrean. (GNU Lizentzia Publiko Orokorren 2. bertsioa baino berriago bat agertuko balitz, bertsio hori zehaztu dezakezu nahi izanez gero.) Ez egin beste aldaketariik ohar horietan.</para>

<para>Kopia batean aldaketa hori egindakoan ezin daiteke aldatu, eta GNU Lizentzia Publiko Orokorra aplikatuko zaie kopia horren ondorengoa kopia guztiei eta handik eratorritako lanei.</para>

<para>Aukera hori erabilgarria da Liburutegiaren kodearen zati bat liburutegia ez den programa batean kopiatu nahi baduzu.</para>
</sect2>

<sect2 id="sect4" label="4">
<title>4. atala</title>

<para>Liburutegia kopiatu edo banatu dezakezu (edo Liburutegian oinarritutako lana, <link linkend="sect2">2. atalean</link> azaltzen den bezala) objektu-kodean edo forma exekutagarrian <link linkend="sect1">1.</link> eta <link linkend="sect2">2.</link> ataletako baldintzei jarraiki, baldin eta makina bidez irakurtzeko moduko iturburu-kode osoarekin batera banatzen baduzu, goiko <link linkend="sect1">1.</link> eta <link linkend="sect2">2.</link> ataletan biltzen diren baldintzak betez softwarea trukatzeko eskuarki erabilitzen den euskarian.</para>

<para>Objektu-kodeen banaketa xede horretarako zehaztutako leku batetik kopiatzeko sarbidea eskainiz egiten bada, leku beretik iturburu-kodea kopiatzeko sarbide baliokidea eskaintzeko iturburu-kodea banatzeko baldintza betetzen du, nahiz eta hirugarren alderdiak ez dauden behartuta objektu-kodearekin batera iturburua kopiatzera.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>5. atala</title>

<para>Programa batek Liburutegiaren zatietatik eratorri ez den edukia duenean, baina Liburutegiarekin lan egiteko disentatua dagoenean (harekin konpilatuta edo estekatuta), <quote>Liburutegia erabiltzen duen lana</quote> deitzen zaio. Horrelako lanak, bukarka, ez dira Liburutegitik eratorritako lanak, eta, beraz, Lizentzia
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Exekutagarriztatzat, behar den Liburutegia erabiltzen duen lanak exekutagarria kopiatzeko behar diren datu eta programa-utilitateak eduki behar ditu. Nolanahi ere, aparteko salbuespen gisa, banatzen den materialak ez dauka exekutatzeko erabiltzen den sistema eragilearen osagai nagusiekina (konpiladorea, nukleoa eta abar) banatu ohi den guztia eman beharrik (iturburu nahiz bitar moduan), baldin eta osagaia bera ez bada
exekutagarriarekin batera banatzen.</para>

<para>Baliteke baldintza hori liburutegien jabari buruz lizentzian ezartzen diren mugikoa kontraesanean egotea (normalean ez dira sistema eragilearekin batera etortzen). Kontraesan horrek esan nahi du ezin dituzula biak batera erabili banatzen duzun exekutagarri batean.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>7. atala</title>

<para>Liburutegian oinarritutako lana diren liburutegi-eginbideak elkarren ondoan ondoan jar ditzakezu liburutegi bakarrean, Lizentzia honetan aipatzen ez diren beste liburutegi-eginbide batzuekin batera, eta horrelako liburutegi konbinatuak banatu ditzakezu, betiere Liburutegian oinarritutako lanaren eta beste liburutegi-eginbide batzuen banaketa bereizia onartzen bada, eta zu bau gaure egitea baldituzo:</para>

<orderedlist numeration="loweralpha">
    <listitem>
        <para>Liburutegi konbinatua Liburutegian oinarritutako lan berdinaren kopiarekin banatu, beste inolako liburutegi-eginbiderik sartu gabe. Goiko atalean zehaztutako baldintzen pean banatu behar da.</para>
    </listitem>
    <listitem>
        <para>Liburutegi konbinatuan ohar nabarmen bat jarri bere zati bat Liburutegian oinarritutako lana dela adierazi, eta lan beraren konbinatu gabeko formatua non aurkitu daitekeen azaldu.</para>
    </listitem>
</orderedlist>

</sect2>

<sect2 id="sect8" label="8">
<title>8. atala</title>

<para>Debekatuta dago lizentzia honen baitan espresuki adierazitakoa bete gabe Liburutegia kopiatu, aldatu, azpilizentziatu, estekatu edo banatzea. Beste era batean Liburutegia kopiatu, aldatu, azpilizentziatu, estekatu edo banatzeko saio oro deusea izango da, eta Lizentzia honen baitan dauzkazun eskubideak automatikoki kendu egingo zaizkizuen. Dena den, Lizentzia honen pean zuregandik kopiak edo eskubideak jaso dituztenei ez zaizkie lizentziak kenduko, baldintza guztiak betetzen dituzten bitartean.</para>

</sect2>

<sect2 id="sect9" label="9">
<title>9. atala</title>


</sect2>


Atal honen zatiren bat baliogabea edo beteezina bada egoera bereziren batean, atalaren gainera guzti aplikatu beharko da, eta atala bere osotasunean aplikatu beharko da beste egoeretan.


Free Software Foundation-ek noizean behin Hedadura Txikiagoko Lizentzia Publiko Orokorren bertsio berrikusia edo berriak argitara ditzake. Bertsio berri horiekin egungoaren antzekoak izango dira espirituz, baina arazo
edo kezka berriei aurre egin beharko dietenez, litekeena da zehatz-mehatz bat ez etortzea.</para>


</sect2>

<sect2 id="sect14" label="14">
<title>14. atala</title>


</sect2>

<sect2 id="sect15" label="15">
<title>BERMERIK EZA</title>

<subtitle>15. atala</subtitle>

<para>LIBURUTEGIAREN LIZENTZIA DOAN EMATEN DENEZ, LIBURUTEGIAK EZ DU BERMERIK, LEGE APLIKAGARRIAK ONARTZEN DUEN NEURRIAN. AURKAKORIK ADIERAZTEN EZ DEN KASUETAN, JABETZA INTELEKTUALEKO ESKUBEIDEA DUTENEK ETA/EDO BESTE ALDERDI BATZUEK LIBURUTEGIA <quote>DAGOEN-DAGOENEAN</quote> EMATEN DUTE INOLAKO BERMERIK GABE, EZ ESPRESUKI ADIERAZITAKORIK ETA EZ INPLIZITURIK, BARNE HARTUZ, BAINA HORRETARA MUGATU GABE, MERKATURATZEKO EDO XEDE JAKIN BATERAKO EGOKITASUNAREN BERMEA. LIBURUTEGIAREN KALITATEARI ETA ERRENDIMENDUARI DAGOKIONEZ, ZURE GAIN DAGO ARRISKU GUZTIA. LIBURUTEGIAK AKATSIK IZANGO BALU, KONPONTZEKO EDO ZUZENTZEKO BEHARREZKO ZERBITZU GUZTIEN KOSTUA ZURE GAIN HARTU BEHARKO ZENUKE.</para>

</sect2>

<sect2 id="sect16" label="16">
<title>LEGE APLIKAGARRIAK EDO IDATZIZ JASOTAKO BORONDATEZKO AKORDIO BATEK HALA ESKATZEN DUELAN EZ BADA, EZIN IZANGO DIOZU JABETZA INTELEKTUALEKO ESKUBIDEDUNARI EDO GOIAN BAIMENTZEN DEN BEZALA LIBURUTEGIA BIRBANATU EDO ALDA DEZAKEEN BESTE ALDERDI BATI ERANTZUKIZUNIK ESKATU EZ KALTEENGATIK, EZ LIBURUTEGIAREN ERABERLAREN ETA ERABILTZEO EZGAITASUNAREN ONDORIOZ SOR LITEZKEEN KALTE OROKOR, BEREZI, GEHIGARRI EDO ONDORIOZKOENGATIK (BESTEAK BESTE, DATUAK GALTZEA EDO HONDATZEA, EDO ZUK EDO BESTE NORBAITEK JASANDAKO GALERAK, EDO BESTE SOFTWARE BATEKIN LAN EGITEKO LIBURUTEGIAREN HUTS EGITEREN BAT), NAHIZ ETA ESKUBIDEDUNARI EDO BESTE NORBAIT HORRI KALTEAK IZAN LITEZKEELA AURRETIK ABISATU IZAN.</para>
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</sect2>
</sect2>

<sect2 id="sect6" label="6">
<title>Section 6</title>

</para>
</sect2>

<sect2 id="sect7" label="7">
<title>Section 7</title>

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Dokumentuaren <quote>Bertsio aldatua</quote> esaten denean, Dokumentu hau osorik edo zati batean biltzen duen edozein lan adierazten da, hau da, kopia literalra, aldaketak dituena edo beste hizkuntza batera itzulitaka.</para>

Dokumentuaren argitaratzaileen (edo gai horrekin zerikusia duten) gai nagusiarekin ala da; <quote>Ayat aldaezinak</quote> Lizentzia honen baldintzen pean argitaratzen dela esaten duen oharrean zehazten dira Atal aldaezinen izenburuak.</para>

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Azaleko testuak edo zati laburra dira eta Aurreko azaleko testu edo Atzeko azaleko testu gisa aipatzen dira <link linkend="fdl-document">Dokumentua</link> Lizentzia honen pean argitaratzen dela dioen oharrean.

Dokumentu <quote>garden</quote> makina bidez irakurtzeko moduko kopia da eta, gainera, publiko orokorrek erabiltzeko moduko formatuduna,
zuzenean testu-editore arruntekin ikusi eta edita daitekeena, edo, pixeletan osatutako irudia bada, pintatzeko editore orokorrekin editatzeko moduko edo, marrakzia bada, marrakzi-editore oso erabilgarriekin editatzeko moduko; horrez gain, testu-formateataileetan sargai edo input gisa erabil daitekeena, edo testu-formateataileek sargai gisa onartzen duten formatuetako batera automatikoki itzul daitekeena. Beste era bateko fitxategi-formatu Gardenean egindako kopia, irakurleek aldaketak egiteko eragozpenak eta trabak jartzeko diseinatutako marka-sistema duena, ez da Gardena. <quote>Gardena</quote> ez den kopiar <quote>opako</quote> deitzen zaio.<para></para>

Kopia Gardenak egiteko erabiltzeko formatu egokien artean, honako hauek ditugu, besteak beste: markaketarik gabeko ASCII soila, Texinfo sarrera-formatu, LaTex sarrera-formatu, SGML edo XML jendeak erabilteko moduko DTDarekin, eta pertsonek aldatu ahal izateko diseinatutako HTML simple eta estandarrarekin egokitu. Formatu opakoen artean, berriz, honako hauek ditugu: PostScript, PDF, testu-prozesadore jabeduna soiletik irakurri eta edita daiteko formatu-jabedunak, SGML edo XML bereziak (DTD eta/edo prozesatze-tresna erabilgarrikin aurrean dutenak), eta zenbait testu-prozesadorek irteerako eman bidez sortutako HTMLak.</para>


KOPIA LITERALAK</title>

Kopia asko banatzen baduzu (hurrengo atalean zehazten da kopurua), <link linkend="fdl-section3">3. ataleko</link> baldintzak ere bete behar dituzu. <para></para>

Goian azaldutako baldintza berdinen pean kopiak mailegutan ere utz ditzakezu, eta kopiak jendaurrean erakutsi ere bai. <para></para>

KANTITATE HANDIA KOPIATZEA</title>

Azaletan jarri beharreko testuak luzeegiak badira modu irakurgarrian ipintzeko, zerrendako lehenak jarri behar dituzu azalean bertan (sartzen diren guztiak), eta hurrengako orrietan jarraitu besteekin.

Dokumentuaren 100 kopia Opako argitaratzen edo banatzen badituzu, kopia Opako bakoitzarekin batera makinaz irakurtzeko moduko kopia <link linkend="fdl-transparent">Garden</link> bat eman behar duzu, edo bestela, kopia Opako bakoitzean edo bakoitzarekin batera ordenagailu-sare bateko helbide bat adierazi beharreko duzu, edonork libreki atzi dezakeena eta Dokumentuaren kopia Garden osoa daukana, gehitutako materialik gabe, sare-erabiltzaile arruntak anonimoki deskargatu ahal izateko doan eta sare-protokolo estandar publikoen bidez. Azken aukeraren bidetik jotzen baduzu, zentzuz eta zuhur jokatu behar duzu kopia Opako asko banatzen hasten zarenean, kopia Garden hori adierazitako kokalekuan urtebetean gutxienez erabilgarri eta atzigarri egongo dela segurtatzeko zuk edizio horren azken kopia Opakoa (zuzeanea edo zure agente edo xehekarien bidez) publikoari banatzen dizunetik kontatzen hasita.

Bestalde, Dokumentuaren kopiak kantitate handian birbanatzen hasi aurretik, autoreekin harremanetan jar zaitezten zaio, behartu gabe, Dokumentuaren bertsio eguneratua eman ahal izan diezazuten.

ALDAKETAK

Dokumentuaren <link linkend="fdl-modified">Bertsio aldatua</link> kopiatu eta banatu dezakezu baldin eta hemen goiko <link linkend="fdl-section2">2</link> eta <link linkend="fdl-section3">3</link> ataletako baldintzak betetzen badituzu, kontuan izanik betiere Bertsio aldatua Lizentzia honen pean banatu behar duzula, Bertsio aldatua izanik Dokumentuaren funtzioa beteko duena, eta, beraz, Bertsio aldatua banatzeko edo aldatzeko baimena eman behar ditzak dura bat duen edonori. Horrez gainera, honako hauek egin behar dituzu Bertsio Aldatuan:

- <link linkend="fdl-title-page">Titulu-orri</link>an (eta azaletan, azalik badu) <link linkend="fdl-document">Dokumentu</link>arena eta aurreko bertsioena ez den beste edozein titulu bat erabili behar duzu (aurreko bertsiorik badago, Dokumentuaren Historiaren atalean zerrendatuta egongo da). Aurreko bertsio horietako baten titulu bera erabil dezakezu, baldin eta jatorrizko argitaratzaileak horretarako baimena ematen badu.

- Bertsio aldatuaren kopia bat duen edonori. Horrez gainera, honako hauek egin behar dituzu Bertsio Aldatuan:

- Bertsio aldatuaren kopia bat duen edonori. Horrez gainera, honako hauek egin behar dituzu Bertsio Aldatuan:
<listitem>
<para>Dokumentuaren kopia <link linkend="fdl-transparent">Gardena</link> publikoki atzitzeko <link linkend="fdl-document">Dokumentu</link>an ematen den sare-helbidea (helbiderik ematen bada) gorde behar duzu, eta, era berean, Dokumentuaren oinarri izan diren aurreko bertsioentzat ematen diren sare-helbideak ere bai. Helbide horiek <quote>Historia</quote> atalean sar daitezke. Sare-helbideak ez dira nahitaez jarri behar, Dokumentua bera baino gutxienez lau urte lehenago argitaratutako lanari dagokionak baldin badira, edo horretarako baimena ematen badu bertsioaren jatorrizko argitaratzaileak.</para>
</listitem>

<listitem>
<para>Eskertzak <quote>Historia</quote> izeneko ataleen, atalaren tituluaren gorde behar da, eta ataleko eskertza edota eskaintza bakoitzean egileak darabilen gai eta tonua errespetatu behar dira.</para>
</listitem>
Errespetatu <link linkend="fdl-document">Dokumentuaren</link> <link linkend="fdl-invariant">Atal aldaezin</link> guztiak, testuak eta tituluak batere aldatu gabe. Atal-zenbakiak edo haien baliokideak ez dira atalaren tituluaren zatitzat hartzen.</para>

Ezabatu <quote>Oniritziak</quote> titulua duen edozein atal. Horrelako atal bat ezin da <link linkend="fdl-modified">Aldatutako bertsio</link>aren barruan egon.</para>

Lehendik dagoen atal bati ez jarri <quote>oniritziak</quote> titulua ez eta <link linkend="fdl-invariant">Atal aldaezin</link>en baten tituluarekin gatazka sor lezakeena ere.</para>


<para><quote>Oniritziak</quote> titulua duen atala gehi dezakezu, baldin eta zure <link linkend="fdl-modified">Bertsio aldatu</link>ari buruz alderdiek emandako oniritziak soilik biltzen badira, eta ez beste ezer -- adibidez, adituek egindako ikuskatzea edo erakunde batek testua estandartzat onartu duela, eta abar--.</para>

Gehienetako hitz dituen pasartea gehi dezakezu <link linkend="fdl-cover-texts">Aurreko azaleko testu</link> gisa, eta gehienetzat 25 hitzeko pasartea <link linkend="fdl-cover-texts">Atzeko azaleko testu</link> gisa <link linkend="fdl-modified">Bertsio aldatu</link>aren <link linkend="fdl-cover-texts">Azaleko testu</link> en zerrendaren bukaeren. Aurreko azaleko testu bakar bat eta Atzeko azaleko testu bat gehi daiteke entitate baten bidez (edo entitate batek egindako egokitizapenen bidez). Dagoeneko <link linkend="fdl-document">Dokumentu</link> ak azaleko testua baldin badauak azal berarentzat, aurretik zuk edo zu ordezkatzen zaituen entitateak gehitutakoa, ezingo duzu beste testurik gehitu, baina nahi izanez gero, lehendik dagoena ordeztu desakezu, testu zaharra gehitu zuen argitaratzailearen baimen esplizitua baldin baduzu.</para>

Lizentzia honen bidez <link linkend="fdl-document">Dokumentuaren</link> <link linkend="fdl-secondary">Atalean</link> biltzen direnak ez duen argitaratzaileak edo argitaratzaileen bidez, eta baimenen publikizitean erabilteko edo <link linkend="fdl-modified">Bertsio aldatu</link>aren <link linkend="fdl-cover-texts">Atzeko testu</link> egin gabea.</para>

Lizentzia honen pean argitaratutako beste dokumentu batzuekin konbinatu dezakezu <link linkend="fdl-document">Dokumentua</link> goian <link linkend="fdl-section4">4. atalean</link> <link linkend="fdl-document">Dokumentuaren</link> <link linkend="fdl-section4">4. atalean</link> biltzen diren baldintzak betetzen badituzu eta bateratzean jatorrizko dokumentu <link linkend="fdl-invariant">Atal aldaezin</link> <link linkend="fdl-modified">Bertsio aldatu</link> <link linkend="fdl-cover-texts">Atzeko testu</link>
guztian sartzen badituzu aldatu gabe eta guztian Atal aldaezin gisa zerrendatuta zure lan konbinatuaren lizentzia-oharrean.</para>


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programknyvtrat mdostottk s tovbbadtk, akkor mindenkin, aki a mdostott vtozatat kapja, tudnia kell, hogy az
nem az eredeti, gy a msok ital okozott hibknak nem lehet hatsa az eredeti szerz hrnevre.

Vgl, a szabad szoftver itt llandan fenyegetik a szoftverszabadalmak. El szeretnnek kerlni annak veszlyt,
hogy a szabad program terjeszti szabadalmat jegyezhessenek be r, eztlal sajt szellemi tulajdon kpev tegy a
programot. Ennek rdekben ragaszkodunk hozz, hogy a programknyvtr egy vtozatval kapcsolatban megsezerzett
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Amikor egy programot szzeszerkesztenek egy programknyvtrral, fggetlenl attl, hogy statikusan vagy egy
megosztott programknyvtr hasznalatval, a kett kombincija jogilag kzs munknak, az eredeti programknyvtr
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Amikor egy programot szzeszerkesztenek egy programknyvtrral, fggetlenl attl, hogy statikusan vagy egy
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Ritkn ugyan, de pldul elfordulhat, hogy igny van egy meghatrozott programknyvtrnak a lehet legszlessebb
krben trtn elterjesztsre, hogy az vhasson a de facto szabvny. Ehhez engedlyezni kell, hogy a nem szabad
programok is hasznlnak a programknyvtrat. Gyakoribb eset az, hogy egy szabad programknyvtr ugyanazt a
feladatot ltja el, mint a szles krben hasznlt nem szabad programknyvtrak. Ebben az esetben igen kevs elny szrmazik
a programknyvtr kizrlag szabad szoftverekben felhasznlsra val korltozsnak, teht ilyenkor is az LGPL feltteleit
hasznlnk.

Megint ms esetekben egy adott programknyvtr nem szabad programokban felhasznlnak engedlyezse azt
jelenti, hogy tbb ember hasznlat szabad szoftvert. Pldul a GNU C Programknyv tr felhasznlna nem szabad
programokban azt jelenti, hogy sokkal tbb ember hasznlatja a teljes GNU opercis rendszert, illetve annak vtozatt, a
GNU/Linux opercis rendszert.

Br az LGPL kevs vi a felhasznlk szabadsgt, azt azonban garantlja, hogy a Programknyvtrral
sszeszerkeszt program felhasznlnja jogosult legyen a program hasznlatra a Programknyvtr mdostott vtozatval
is.

A msolsra, terjesztsre s mdostsra vonatkoz pontos szablyok s feltelek az albbiakban olvashat. Nagyon
fontos megkönnyebbíteni a "programknyvtron alapul munka" s a "programknyvtrat felhasznál munka" fogalmakat. Az elábbi a programknyvtrbl szrmaz kdot tartalmaz, mg az utbbi a futshoz ignyli a programknyvtrat.</para>

</sect1>

<sect1 id="terms" label="none">
<title>A MSOLSRA, TERJESZTSRE S MDOSTSRA VONATKOZ FELTTELEK S KIKTSEK</title>

<sect2 id="sect0" label="0">
<title>0. szakasz</title>
<para>Ez a licenc minden olyan programknyvtrra vagy egyb programra vonatkozik, amelyhez a szerzi jog tulajdonosa vagy egyb jogosult fl azt a megjegyzst fzte, hogy az a jelen LGPL-ben (ms nven a "jelen Licencben") foglaltak alapjn terjeszthet. Minden engedlyez czmzettje "n".</para>

<para>Egy munka "Programknyvtron alapul munka" alatt fggvnyek s/vagy adatok olyan gyjtemnyt rtjk, amely gy lett elksztsve, hogy nyelmesen sszeszerkeszthet legyen alkalmazsprogramokkal (amelyek a fggvnyek s az adatok egy rsz hasznljk), ygrehajhat fjlok elksztshez.</para>

<para>A Programknyvtron alapul munka" kifejez brmely ilyen programknyvtrra vagy munkra vonatkozik, a "Programknyvtron alapul munka" pedig magt a Programknyvtrat vagy egy szerzi joggal vdett munkt jelenti: vagyis olyan munkt, amely tartalmazza a Programknyvtr vagy annak egy rszlett, mdostva vagy mdosts nlk s/vagy ms nyelvre fordta. (Az albbiakban a fordts minden egyb megkts nlk beletartozik a "mdosts" fogalomba.)</para>

<para>Egy munka "Forrskdja" a munknak az a formtuma, amelyben a mdostsok elvgzse a legegyeszerben kivitelezhet. Egy programknyvtr esetben a teljes forrskd az ltala tartalmazott sszes modul forrskdjt jelenti, valamint minden hozz tartoz illesztdefincs fjlt, valamint a programknyvtr fordts s teleptst szablyoz parancsfjlokat.</para>

<para>A jelen Licenc a msolson, terjesztsten s mdostson kvl ms tevkenysgre nem vonatkozik, azok a hatlyn kvl esnek. A Programknyvtrat hasznl program futtatsa nincs korltozva, illetve a program kimenetr es csak abban az esetben vonatkozik ez a szablyoz, ha az tartalmazza a Programknyvtron alapul munka egy rszlett (fggetlenl attl, hogy a Programknyvtrat hasznlt-e egy eszkben a megshoz). Az, hogy ez igaz-e, a Programknyvtr, illetve a Programknyvtrat hasznl program mdstdl fgg.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>1. szakasz</title>
<para>A Programknyvtr forrskdja mdosts nlk mshat s brmely adathordozn terjeszthet, feltve, hogy minden egyes pldnyon pontosan szerepel a megfelel szerzi jogi megjegyzs, illetve a garanciavllals elutassta; rintetlenl kell hagny minden erre a szablyozsra s a garancia teljes hinyra utal szveget s a jelen licencedokumentumot is el kell juttatni mindazokhoz, akik a Programknyvtrat kapj.</para>

<para>Felszmtajt dj a msolat fizikai tovbbts fejben, illetve ellenszolgltats fejben garancilis tmogats is biztosthat.</para>
</sect2>
A Programknyvtr msonlatai vagy azok egy rsze mdosthat, amely gy a Programknyvtron alapul munkt alkot. A mdosts ezutn az "link linkend="sect1">1. szakasz</link> adott felttelek szerint tovbb terjeszthet, ha az albbi felttelek is teljesnek: <orderedlist numeration="loweralpha">
  <listitem>
    <para>A mdostott munknak magnak is programknyvtrnak kell lennie. </para>
  </listitem>
  <listitem>
    <para>A mdostott fjlokat el kell ltni olyan megjegyzssel, amely feltnteti a mdostst vgz nevt s a mdostsok duumt. </para>
  </listitem>
  <listitem>
    <para>A teljes munkt olyan szablyokkal kell kiadni vagy terjeszteni, hogy annak hasznlati joga harmadik szemly rsze licencdjmtenesen hozzfrhet legyen, a jelen Licencnek megfelelen. </para>
  </listitem>
  <listitem>
    <para>Ha a mdostott Programknyvtr egy rsze egy olyan fgvnyyre vagy adattbla hivatkozik, amelyet egy, az adott rszti alkalmazsprogram biztost, s nem egy todott argumentumrln van sz annak meghvsakor, akkor mindent el kell kvetni annak rdeki, hogy amennyiben az alkalmazs nem biztostja a szksges fgvnyt vagy adattblt, az adott rsz akkor is mkdskpes maradjon, s vgrehajtsa, amit csak a mkdsbl addan elveghzet. </para>
    
    <para>(Ha pldul egy programknyvtr egy fgvnye ngyzetgykt szmt, akkor annak a clja teljesen jI definiIt, az alkalmazstl fggetlen. Vagyis a 2d alpont azt kveteli meg, hogy a fgvny szmra az alkalmazs Ital biztostott fgvny vagy adattbla opcionis legyen: ha az alkalmazs nem biztost iyet, a ngyzetgyk fgvnynek akkor is ngyzetgykket kell tudnia szmtni.)</para>
  </listitem>
  <listitem>
    <para>Ezek a felttelek a mdostott munkra, mint egzsre vonatkoznak. Ha a munka azonosthat rszei nem a Programknyvtron alapulnak s fggetlen munkkknt elkhlnlen azonosthat, akkor ez a szablyos nem vonatkozik ezekre a rszekre, amennyiben azok kln munkaknt kerlnk terjesztse. Viszont, ha ugyanez a rsz az egzs rszeknt kerl terjesztsre, amely a Programknyvtron alapul munka, akkor az egzs munka terjeszts csak a jelen dokumentum alapjn lehetsges, amely ebben az esetben a jogokat minden egyes felhasznl szmra kiterjeszti a munka egzsre tekintet nkl arra, hogy melyik rsz ki rta. </para>
  </listitem>
  <listitem>
    <para>Es szvegrsznek teht nem az a clja, hogy msok jogaIt elvegye vagy korltozza a kizrlag sajt maga ltal rt munkkra; a cl az, hogy a jogok gyakorlsa szablyozva legyen a Programknyvtron alapul illetve a gyjtemnyes munkk terjesztse esetben. </para>
  </listitem>
  <listitem>
    <para>Ezenkvl ms munkknak, amelyek nem a Programknyvtron alapulnak, a Programknyvtrral (vagy a Programknyvtron alapul munkval) kzs adathordozn vagy adattroln szerepeltetse nem jelenti a jelen szablyok rvnyessgt azokra is. </para>
    
    <listitem>
      </listitem>
    </listitem>
</orderedlist>

Ezenkvl rsz munkknak, amelyek nem a Programknyvtron alapulnak, a Programknyvtrral (vagy a Programknyvtron alapul munkval) kzs adathordozn vagy adattroln szerepeltetse nem jelenti a jelen szablyok rvnyessgt azokra is. 

<sect2 id="sect3" label="3">
n vlaszthatja azt, hogy a Programknyvtr egy adott pldnnya vonatkozan a norml GNU General Public License hasznlt kti kis nem a jelen Licencet. Ehhez meg kell vlozottani az erre a licencre hivatkoz szsz figyelmztest, gy, hogy azok a jelen licenc helyett a norml GNU General Public License (GPL) 2. verziira hivatkozzanak. (Ha a norml GNU General Public License-bl a 2. verzinn frissebb jelenne meg, akkor azt a verzit is elhatja, ha akarja). Egyb vlozottatst ne tegyen a figyelmztestekben. </para>

Miutn a mdost megtrtnt, az visszafordthatatlan az adott pldnnya vonatkozan, vagyis a GNU General Public License fog vonatkozni annak szsz tovbbi msolatra s az abbl a pldnnyl szrmaztatott szsz munkra. </para>

Ez a lehetsg akkor hasznos, ha a Programknyvtr kdjnak egy rszt egy olyan programba akarja illeszteni, amelyik nem programknyvtr.</para>

A Programknyvtr (vagy a programknyvron alapul munka a link linkend="sect2">2. szakasznak</link> megfelelen) msolhat s terjeszthet trgykd vagy vgrehajthat kd formjban az link linkend="sect1">1. link s link linkend="sect2">2. link szakaszban foglaltak szerint, feltve, hogy a teljes, gp lal rtelmezhet forrskd kri az anyagot, amelynek terjeszts az link linkend="sect1">1. link s link linkend="sect2">2. link szakaszban foglaltak szerint trntnik, jellemzen szoftverterjesztstre hasznlt adathordozn. </para>

Ha a trgykd terjeszts azt jelenti, hogy lehetsg van lemsolni egy meghatrozott helyrl, akkor ez teljesti a forrskd terjesztsre vonatkoz ktelezettsget, br a harmadik felek nem ktelesek a forrskdot a trgykddal egytt lemsolni.</para>

A Programknyvtr semmilyen szszkne leszrmazottj, de gy ktlt, hogy a Programknyvtron alapul munka a link linkend="sect2">2. szakasznak</link> megfelelen) msolhat s terjeszthet trgykd vagy vgrehajthat kd formjban az link linkend="sect1">1. link s link linkend="sect2">2. link szakaszban foglaltak szerint, feltve, hogy a teljes, gp lal rtelmezhet forrskd kri az anyagot, amelynek terjeszts az link linkend="sect1">1. link s link linkend="sect2">2. link szakaszban foglaltak szerint trntnik, jellemzen szoftverterjesztstre hasznlt adathordozn. </para>

Egy, a link linkend="sect6">6. szakasz</link> taglalja az ilyen vgrehajthat fjlok terjesztsnek feltteleit. </para>

Egy olyan fejlcfl anyagt hasznla, amelyik a Programknyvtr szsz szerkesztse azonban egy olyan vgrehajthat fjt eredmnyez, amelyik a Programknyvtr szrmaztatott munkja (hiszen tartalmazza a Programknyvtr rszeit), nem pedig a link linkend="sect6">6. szakasz</link> taglalja az ilyen vgrehajthat fjlok terjesztsnek feltteleit. </para>

Ha egy link linkend="sect6">6. szakasz</link> taglalja az ilyen vgrehajthat fjlok terjesztsnek feltteleit. </para>
Ha egy ilyen objektumfjl csak numerikus parametereket, adatstruktra-elrendezéseket, -hozzfrseket, kisebb makrkat s kisebb begyazott fggvnyeke (nem tbb, mint tz sonnyit) hasznl, akkor az objektumfjl hasznlata nem korltozott, figetlenl atl, hogy szrmaztatott munka-e vagy sem. (A trgykdot s a Programknyvtrrzt tartalmaz vgreahjhat fjlok tovbbra is a link linkend="sect6">6. szakasz</link> hatlya al tartoznak.)

Ellenkez esetben, ha a munka a Programknyvtr szrmaztatott munkja, akkor a trgykdja terjeszthet a link linkend="sect6">6. szakasz</link> feltelleinek megfelelen. A munka tartalmaz vgreahjhat fjlok szintn a link linkend="sect6">6. szakasz</link> hatlya al esnek, akkor is, ha hincsenek kzettenl a Programknyvtrral sszeszerkesztve.</sect2>

A fenti szakaszok kivteleknt egy, a quote>Programknyvtrat hasznl munka</quote> egyesthet vagy sszeszerkesztz a Programknyvtrral, hogy ltrejijn egy olyan munka, amely tartalmazza a Programknyvtr rze, s az ilyen munka terjeszthet az n ital vlasztott felttelek szerint is, feltve, hogy ezek a felttelek megengedik a munka szabad mdstst a vsrl sajt hasznlatra s az ilyen mdstsok hibakeressre szolgln visszafejtst.

A munka minden egyes pldnyn megfelelen jelezni kell, hogy a Programknyvtr hasznlna, s hogy a hasznlatot a jelen Licenc szablyozza. Mellkeln kell a jelen Licenc egy pldnnyt. Ha a munka vgreahj aszben szerzi jogi megjegyzseket jelent meg, akkor ezek kzt szerepeln kell a Programknyvtr szerzi jogi megjegyzsenek is, valamint egy hivatkozsnak, amely a felhasznlt a jelen Licenc egy pldnnyhoz irnytja. Tovbb az albbiak egyik biztostani kell: orderedlist numeration="loweralpha">

A munka mell mellkeln kell a Programknyvtr teljes, gppel olvashat forrskdjt, jelezve, hogy a (fenti link linkend="sect1">1.</link> s link linkend="sect2">2.</link> szakaszoknak megfelelen terjesztett) munkban milyen mdstsok trntek; valamint, ha a munka egy, a Programknyvtrval sszeszerkeszt vgreahjhat fj elj, a teljes quote>Programknyvtrat hasznl munka</quote> gppel olvashat kdjt, ahhoz hogy trgykdnt s/vagy forrskdnt a felhasznln mdsts a Programknyvtr s utna tserkeszthesse azt egy olyan mdstott vgreahjhat fj ellitshoz, amely tartalmazza a Programknyvtrval. (Termzetesen elfordulhat, hogy a Programknyvtr defincs fjijainak tartalm megvltzat felhasznln nem felttlenes lesz kpes jrafordtani az alkalmazst a mdstott defincikkal.)

Egy megfelel megosztott Programknyvtr-mechanizmus hasznln a Programknyvtrval sszeszerkesztshez. Megfelel mechanizmus az olyan, amely (1) futi idben a programknyvtr egy, m a felhaszn szmtprezn szern megallhat pldnny hasznlna, nem pedig bemsolja a programknyvtr egyes fggvnyeit a vgreahjhat fjba, tovb (2) megfelelen mdik a programknyvtr mdstott vloztaval is, ha a felhasznln egy olyat telep, feltve, hogy a mdstott verzi interfse kompatibilis azzal a verzival, amelyikkel a munka ksltt.

A munkhoz egy legalbb hrom vig rvnyes rsos ajnlat mellkeln, hogy ugyanazon felhasznln szmra a link linkend="sect6a">6.a alszakaszban</link> meghatrozott anyagokat biztstja, nem nagyobb djrt, mint a jelen terjeszt dja.

Ha a munka terjesztse egy adott helyrl trt msols engedlyezst jelenti, akkor egyenrtk hozzfrs biztstsa
szksges a fent meghatrozott anyagok ugyanonnnan lemsolshoz.</para>
</listitem>
</listitem>
</sect2>

<sect2 id="sect7" label="7">
<title>7. szakasz</title>

<p>A Programknyvtrat egyes rszeit, amelyek a Programknyvtron alapul munknak szmtnak, egym mellett egyetlen programknyvtrban ms programknyvtrrak rszeivel egytt, amelyekre nem vonatkozik a jelen Licenc, s az ilyen egyestett programknyvtrat is terjesztheti, feltve, hogy a Programknyvtron alapul munka s a msik programknyvtr rszeinek kln-kln terjesztse egybknt engedlyezett s az albbi kt dolog valamelyikb biztostja:</p>

<orderedlist numeration="loweralpha">
  <listitem>
    <para>Az egyestett programknyvtr mell melkeli a Programknyvtron alapul ugyanazon munkt, amely nincs egyestve semmilyen ms programknyvtr rszeivel. Ezt a fenti rszek feltteleinek megfelelen kell terjeszteni.</para>
  </listitem>
  <listitem>
    <para>Megfelel figyelmeztetst alkalmaz az egyestett programknyvtr mell a tnyrl, hogy ez rszben a Programknyvtron alapul munka, s elmagyarzza, hogy hol tallhat ugyanazon munka nem egyestett formban.</para>
  </listitem>
</orderedlist>
</sect2>

<sect2 id="sect8" label="8">
<title>8. szakasz</title>

<p>A Programknyvtrat csak a jelen Licencben lertaknak megfelelen szabad lemsolni, terjeszteni, mdostani s allicencbe adni. Az egyb mdon val msols, mdosts, terjeszts s allicencbe ads rvnytelen, s azonnal rvnytelenti a dokumentumban biztostott jogosultsgokat. Mindazonltal azok, akik a Licencet megszegtl kaptak pldnyokat vagy jogokat, tovbb gyakorolhatjik a Licenc Ital meghatrozott jogaikat mindaddig, amg teljes mrtkben megfelelenk a Licenc feltteleinek.</p>

</sect2>
Nem ktelez elfogadnia ezt a szabályozást, hiszen nem rta al. Ezen kívül viszont semmi ms nem ad jogokat a Programkönyvtr vagy a szmaztatott munkk terjesztésre s mdszsra. Ezeket a cselekedéteket a trvnny bnteti, ha nem a jelen szerzi jogi szabályozás keretei kzt trtnnak. Mindezek miatt a Programkönyvtr (vagy a Programkönyvtron alapul munka) terjesztése vagy mdszs a jelen dokumentum szabályainak, s azon bell a Programkönyvtr vagy a munka mdszsra, mszsra vagy terjesztésre vonatkoz szszes felttelnek elfogadst jelenti. /para>

Minden alkalommal, amikor a Programkönyvtr (vagy az azon alapul munka) tovbbadsa trtnik, a Programkönyvtrat megkap személy automatikusan hozz jut az eredeti licencutajdonos szmaz licenchez, amely a jelen szabályok szerint biztosja a jogot a Programkönyvtr mszsra, terjesztésre, szerkesztéshez felhasználásra s mdszsra. Nem lehet semmilyen mdon tovbb korltozni a fogad flne az itt megadott jogait. A Programkönyvtr tovbbadj a nem felels harmadik személyekkel betartatni a jelen szabályokat. /para>

Ha brsgi hatrozat, szabadalomsrts vlelme, vagy egyb (nem kizrlag szabadalmakkal kapcsolatos) okból olyan feltteleknek kell megfelelnie (akr brsgi hatrozat, akr megllapods, akr brmi ms eredmnyepp), amelyek ellentese a jelen felttelekkel, az nem ment fel a terjeszt a jelen felttelek figyelembevtele all. Ha a terjeszts nem lehetszes a jelen Licenc s az egyb felttelek ktelezetteseinek egyttet betartsval, akkor tilos a Programkönyvtr terjesztse. Ha pldul egy licencszabadalom nem engedi meg egy programkönyvtr jogdj nikl tovbbterjesztst azok szmra, akik kzetve vagy kветelenl megkapij, akkor az egyetlen mdja, hogy eleget tegyen valaki mindkt feltelnek, az, hogy ell a programkönyvtr terjesztstl./para>

Ha ennek a szakasznak brmely rsze rvnytelen, vagy nem rvnyesthet valamely krlmny folytyn, akkor a szakasz fennmarad rszt kell alkalmazni, egyb esetekben pedig a szakasz egzsz alkalmazand./para>

Ennek a szakasznak nem az a clja, hogy a szabadalmak vagy egyb hasonl jogok megsrtsre sztnnn brkit is; mindssze meg szeretn vdeni a szabad szofterver terjesztsei rendszernek egysgt, amelyet a szabad kreadst szabályoz felteltrendserek teremtenek meg. Sok ember nagymrkb jult hozz az e rendszer keretben terjesztett, kntle szoftervekhez, s szm a rendszer kvetkezetes alkalmazsra; azt a szerz/adomnyoz dnti el, hogy a szofterv ms rendszer szerint is kzz kvnja-e tenni, s a licencet kapk ezt nem befolysolhatjik. /para>

E szakasz clja, hogy pontosan tisztzza azt, ami elgondsunk szerint a jelen licenc tbb sznek a kvetkeznye./para>

E szakasz clja, hogy pontosan tisztzza azt, ami elgondsunk szerint a jelen licenc tbb sznek a kvetkeznye./para>

Ennek a szakasznak nem az a clja, hogy a szabadalmak vagy egyb hasonl jogok megsrtsre sztnnn brkit is; mindssze meg szeretn vdeni a szabad szofterver terjesztsei rendszernek egysgt, amelyet a szabad kreadst szabályoz felteltrendserek teremtenek meg. Sok ember nagymrkb jult hozz az e rendszer keretben terjesztett, kntle szoftervekhez, s szm a rendszer kvetkezetes alkalmazsra; azt a szerz/adomnyoz dnti el, hogy a szofterv ms rendszer szerint is kzz kvnja-e tenni, s a licencet kapk ezt nem befolysolhatjik. /para>
Ha a Programkönyvt terjesztése s/vagy használata egyes országokban nem lehetséges akr szabadalmak, akr szerző jogokkal védett felletek miatt, akkor a Programkönyvt szerző jogainak eredeti tulajdonosa, aki a Programkönyvtrat ezen szabályozás alapján adja közre, egy explicit írási megkötést adhat a terjesztésre, s egyes országokat kizírhat. Ebben az esetben gy tekintend, hogy a jelen licenc ezt a megkötést is tartalmazza, ugyanyg, mintha az a szövegben lenne leva.</para>

</sect2>

</sect2 id="sect13" label="13">
<title>13. szakasz</title>

A Free Software Foundation idrl idre kiadja a GNU Lesser General Public License (LGPL) fellépészlet s/vagy jabb változatait. Ezek az jabb dokumentumok az elszakasz szellőben késznek, de részekeken klnézetik, hogy j problémákat vagy agglyókat is kezeljenek.</para>

</sect2>

</sect2 id="sect14" label="14">
<title>14. szakasz</title>

A Programkönyvtat ms szabad szoftverbe, amelyek szerzői jogi szabályozása klnézik, csak akkor pethet be, ha a szerzőt erre engedélyt szerzett. Abban az esetben, ha a programkönyvt szerzői jogainak tulajdonosa a Free Software Foundation, akkor a Free Software Foundation cmre kell rni; nha kivételt tesznk. A dnts a kivétel két el szem eltt tartsval fog trtnni: megmaradjon a szabad szoftveren alapul munkk szabad llapota, valamint segíts e a szoftver jafélhasználst s megosztst.</para>

</sect2>

</sect2 id="sect15" label="15">
<title>GARANCIAVLLALS HINYA</title>

MIVEL A JELEN PROGRAMKÖNYVT TANÁLATI JOGA DJMENTES, AZ ALKALMAZHAT JOGSZABÁLYOK LTAL BIZTOSTOTT MAXIMLIS MRTKBEN VISSZAUTASTJUK A PROGRAMKÖNYVTRHOZ A GARANCIA BIZTOSTST. AMENNYIBEN A SZERZI JOGOK TULAJDONOSAI RSBAN MSKT NEM NYILATKOZNAK, A PROGRAMKÖNYVT R A JELEN LŁAPOTBAN KERL KIADSRA, MINDENFLE GARANCIAVLLALS NLKL, LEGYEN AZ KIFEJEZETT VAGY BELETETT, BELETTE, DE NEM KIZRLAGOSAN A FORGALOMBAHOZHATSGRA VAGY ALKALMAZHATSGRA VONATKOZ GARANCIAKAT. A PROGRAMKÖNYVT MINSGL S MKDSBL FAKAD SSZES KOCKZAT A FELHASZNLT TERHELI. HA A PROGRAMKÖNYVT HIBSAN MKDÍK, A FELHASZNLANAK MAGNAK KELL VLLALNIA A JAVTSHOZ SZKGES MINDEN KLTSGET.</para>

</sect2>

</sect2 id="sect16" label="16">
<title>16. szakasz</title>
AMENNYIBEN A HATLYOS JOGSZABLYOK VAGY A SZERZI JOGOK TULAJDONOSAI RSOS MEGOLLAPODSABAN MSKNT NEM RENDELKEZNEK, SEM A PROGRAMKNYVTR SZERZIE, SEM MSOK, AKIK MDOSTOTTJ S/VAGY TERJESZTETTK A PROGRAMKNYVTRAT A FENTIEKNEK MEGFELELEN, NEM TEHETK FELELSS A KROKRT, BELERTVE MINDEN VLETLEN, VAGY KVETKEZMNYES KRT, AMELY A PROGRAMKNYVTR HASZNLATB LA VAGY A HASZNLAT MEGAKADLYOZSBL SZRMAZIK (BELERTVE, DE NEM KIZRLAGOSAN AZ ADATVESZTST S A HELYTELEN ADATFELDOLGOZST, VALAMINT A MS PROGRAMKNYVTRAKKAL VAL HIBS EGYTMTKDST), MG AKKOR SEM, HA EZEN FELEK TUDATBAN VOLTAK, HOgy ILYEN KROK KELETKEZHETNEK.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a work that uses the Library. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a work that uses the Library with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a work that uses the library. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a work that uses the Library uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to
produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

</para>
</listitem>
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<para>
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
</para>
</listitem>
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<para>
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing this distribution.
</para>
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If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
</para>
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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
</para>
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For an executable, the required form of the <quote>work that uses the Library</quote> must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

No esteu obligat a acceptar aquesta llicncia, ja que no l'heu signada. Tanmateix, no hi ha cap altra opció que us doni perms per modificar o distribuir la biblioteca o les seves obres derivades. Aquestes accions queden prohibides per la llei si no accepteu aquesta llicncia. Això doncs, en modificar o distribuir la biblioteca o les seves obres derivades, indiqueu que accepteu aquesta llicncia per a fer-ho, i tots els seus termes i condicions per copiar, distribuir o modificar la biblioteca o obres que hi estiguin basades.

Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

Si, a conseqüència d'una decisió judicial, una demanda per infracció d'una patent o per qualsevol altra raó (no exclusivament relacionada amb patents), se us imposen condicions (tant si s'ordenar judicial, acord, o el que sigui) que contraduïen les condicions d'aquesta llicncia, no queda excusat de les condicions d'aquesta llicncia. Si no us s'hi posseeix distribuir de manera que satisfes alhora les obligacions que us imposa aquesta llicncia i qualsevol altra obligació pertinent, aleshores no podeu distribuir el programa en absolut. Per exemple, si una llicència de patent no permeteix redistribuir gratuïtament la biblioteca a aquells que hagin rebut còpies de vs directament o indirectament, aleshores la nica manera en què podreu satisfacer tant això com aquesta llicència seria abstenir-vos completament de distribuir la biblioteca.
Si qualsevol fragment d'aquesta secci queds invalidat o no es pogus fer complir en qualsevol circumstncia particular, la intenci s que s'apliqui el balan de la secci, i que s'apliqui la secci en la seva totalitat en altres circumstncies.

El propsit d'aquesta secci no s induir-vos a infringir cap patent ni cap altre requeriment del dret a la propietat, o a discutir-ne la validesa; l'nic propsit d'aquesta secci s protegir la integritat del sistema de distribuci de programari lliure, que s'implementa amb prctiques de llicncia pblica. Molta gent ha fet generoses contribucions a l'ampli ventall de programari distribut per aquest sistema refiant-se de l'aplicaci consistent del sistema; li pertoca a l'autor, autora o donant decidir si vol distribuir programari per algun altre sistema, i un beneficiari de la llicncia no pot imposar aquesta elecci.

Aquesta secci pretn deixar del tot clar el que es considera una conseqncia de la resta de la llicncia.

Si hi ha pasos que restringeixen la distribuci o l's de la biblioteca, ja sigui per patents o per interfcies sota copyright, el possedor del copyright original que posi la biblioteca sota aquesta llicncia pot afegir limitacions geogrffiques explcites que excloguin aquests pasos, de manera que la distribuci noms qued permesa dins dels pasos no exclosos, o entre ells. En tal cas, aquesta llicncia incorpora la limitaci com si estigus escrita en el text de la llicncia.

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If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

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Para proteger seus direitos, precisamos fazer restrições que impeçam a qualquer um negar estes direitos ou solicitar que você abdique deles. Estas restrições traduzem-se em certas responsabilidades para você, se você for distribuir cópias do software ou modificá-lo.

Além disso, tanto para a proteção de cada autor quanto a nossa, gostaríamos de nos certificar de que todos entendam que não há qualquer garantia nestes softwares livres. Se o software modificado por algum mais e passado adiante, queremos que seus recebedores saibam que o que eles obtiveram no original, de forma que qualquer problema introduzido por terceiros no interfira na reputação do autor original.

Finalmente, qualquer programa livre ameaçado constantemente por patentes de software. Queremos evitar o perigo de que redistribuidores de software livre obtenham individualmente licenças de patentes, o que teria o efeito de tornar o programa proprietário. Para prevenir isso, deixamos claro que qualquer patente tem que ser licenciada para uso livre e gratuito por qualquer pessoa, ou ento que não seja licenciada.
TERMOS E CONDIÇÕES PARA CPIA, DISTRIBUIÇÃO E MODIFICAÇÃO

0

Esta Licença se aplica a qualquer programa ou outro trabalho que contenha um aviso colocado pelo detentor dos direitos autorais informando que aquele pode ser distribuído sob as condições desta Licença Pública Geral. O “Programa” abaixo refere-se a qualquer programa ou trabalho, e “trabalho baseado no Programa” significa tanto o Programa em si como quaisquer trabalhos derivados, de acordo com a lei de direitos autorais: isto quer dizer um trabalho que contenha o Programa ou parte dele, tanto originalmente quanto com modificações, e/ou tradução para outro idioma. (Doravante tradução está incluído sem limites no termo “modificação”.) Cada licenciado mencionado como “você”.

Atividades além de cópia, distribuição e modificação no esto cobertas por esta Licença; elas estão fora de seu escopo. O ato de executar o Programa no restringido, e o resultado do Programa coberto apenas se seu conteúdo contenha trabalhos baseados no Programa (independentemente de terem sido gerados pela execução do Programa). Se isso verdadeiro depende do que o Programa faz.

1

Você pode copiar e distribuir cópias físicas do código-fonte do Programa da mesma forma que você o recebeu, usando qualquer meio, desde que você consiga e apropriadamente publique em cada cópia um aviso de direitos autorais e uma declaração de inexistência de garantias de forma apropriada; mantenha intactos todos os avisos que se referem a esta Licença e ausência total de garantias; e forneça a outros recebedores do Programa uma cópia desta Licença, junto com o Programa.

Você pode cobrar pelo ato físico de transferir uma cópia e pode, opcionalmente, oferecer garantia em troca de pagamento.

2

Você pode modificar sua cópia ou cópias do Programa, ou qualquer parte dele, assim gerando um trabalho baseado no Programa, e copiar e distribuir essas modificações ou trabalhos sob os termos da Seção 1 acima, desde que você também se atenda a todas estas condições: <orderedlist numeration="loweralpha">
<li>Você tem que fazer com que os arquivos modificados levem avisos proeminentes afirmando que você alterou os arquivos, incluindo a data de qualquer alteração.</li>
</orderedlist>

Você tem que fazer com que quaisquer trabalhos que você distribua ou publique, e que integralmente ou em partes contenham ou sejam derivados do Programa ou de suas partes, sejam licenciados, integralmente e sem custo
algum para quaisquer terceiros, sob os termos desta Licena.</para>
</listitem>
</listitem>
</para>

Se o programa modificado normalmente l comandos interativamente quando executados, voc tem que fazer com que, quando iniciado tal uso interativo da forma mais simples, seja impresso ou mostrado um anncio de direitos autorais um e anncio de que no h qualquer garantia (ou ento, que voc fornece a garantia) e que os usuarios podem redistribuir o programa sob estas condies, ainda informando os usuarios como consultar uma cpia desta Licena. <note>
<title>Exceo:</title>
<para>se o Programa em si interativo mas normalmente no imprime estes tipos de anncios, seu trabalho baseado no Programa no precisa imprimir um anncio.</para>
</note>
</para>
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Estas exigencias aplicam-se ao trabalho modificado como um todo. Se se es identificveis de tal trabalho no forem derivadas do Programa, e que podem ser razoavelmente consideradas trabalhos independentes e separados por si s, ento esta Licena, e seus termos, no se aplicam a estas se es quando voc distribui-las como trabalhos em separado. Mas quando voc distribuir as mesmas se es como parte de um todo, o qual baseado no Programa, a distribuio como um todo deve que se enquadrar nos termos desta Licena, cujas permises para outros licenciados se estendem ao todo, portanto para cada e toda parte, independente de quem a escreveu.</para>

Desta forma, esta seo no tem a inteno de reclamar direitos ou contestar seus direitos sobre o trabalho escrito inteiramente por voc; ao invs disso, a inteno a de exercitar o direito de controlar a distribuio de trabalhos, derivados ou coletivos, baseados no Programa.</para>

Adicionalmente, a mera agregao ao Programa de outro trabalho no baseado no Programa (ou de trabalho baseado no Programa) em um volume de armazenamento ou meio de distribuio no faz o outro trabalho parte do escopo desta Licena.</para>
</sect2>

Voc pode copiar e distribuir o Programa (ou um trabalho baseado nele, conforme descrito na <link linkend="sect2">Seo 2</link>) em cdigo-objeto ou em forma executvel sob os termos das <link linkend="sect1">Sees 1</link> e <link linkend="sect2">2</link> acima, desde que voc tambm faa um dos seguintes itens: <orderedlist numeration="loweralpha">
<li><para>O acompanhe com o cdigo-fonte completo correspondente e em forma acessvel por mquinas, que deve ser distribuido sob os termos das <link linkend="sect1">Sees 1</link> e <link linkend="sect2">2</link> acima e em meio normalmente utilizado para o intercambio de software; ou,</para></li>
<li><para>O acompanhe com uma oferta expressa, vlida por pelo menos trs anos, de fornecer a qualquer terceiros, com um custo no superior ao custo de distribuio fsica do material, uma cpia do cdigo-fonte completo e em forma acessvel por mquinas, que deve ser distribuido sob os termos das Sees 1 e 2 acima e em meio normalmente utilizado para o intercambio de software; ou,</para></li>
</orderedlist>
<listitem>
<para>O acompanhe com a informação que você recebeu em relação à oferta de distribuição do código-fonte correspondente. (Esta alternativa permitida somente em distribuição no comercial, e apenas se você recebeu o programa em forma de código-objeto ou executável, com oferta, de acordo com a Subseção b acima.)</para>
</listitem>
</orderedlist>

<para>O código-fonte de um trabalho corresponde à forma de trabalho preferida para se fazer modificações. Para um trabalho em forma executável, o código-fonte completo significa todo o código-fonte de todos os módulos que ele contém, mais quaisquer arquivos de definição de "interface", mais os "scripts" utilizados para se controlar a compilação e a instalação do executável. Contudo, como exceção especial, o código-fonte distribuído não precisa incluir qualquer componente normalmente distribuído (tanto em forma original quanto binária) com os maiores componentes (o compilador, o "kernel" etc.) do sistema operacional sob o qual o executável funciona, a menos que o componente em si acompanhe o executável.</para>

<para>Se a distribuição do executável ou código-objeto feita através da oferta de acesso a cópias de algum lugar, então ofertar o acesso equivalente à cópia, do mesmo lugar, do código-fonte equivalente à distribuição do código-fonte, mesmo que terceiros não sejam compelidos a copiar o código-fonte com o código-objeto.</para>

<sect2 id="sect4" label="4">
<title>Seção 4</title>

<para>Você não pode copiar, modificar, sub-licenciar ou distribuir o Programa, exceto de acordo com as condições expressas nesta Licença. Qualquer outra tentativa de cópia, modificação, sub-licenciamento ou distribuição do Programa vetado, e cancelar automaticamente os direitos que lhe foram fornecidos por esta Licença. No entanto, terceiros que receberam cópias ou direitos, fornecidos por você sob os termos desta Licença, no terão suas licenças canceladas, desde que permaneçam em total concordância com ela.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>Seção 5</title>

<para>Você não é obrigado a aceitar esta Licença, já que não a assinou. No entanto, nada mais o dar permitirá para modificar ou distribuir o Programa ou trabalhos derivados deste. Estas ações são proibidas por lei, caso você não aceite esta Licença. Desta forma, ao modificar ou distribuir o Programa (ou qualquer trabalho derivado do Programa), você estará indicando sua total aceitação desta Licença para fazê-los, e todos os seus termos e condições para copiar, distribuir ou modificar o Programa, ou trabalhos baseados nele.</para>
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<sect2 id="sect6" label="6">
<title>Seção 6</title>

<para>Cada vez que você redistribuir o Programa (ou qualquer trabalho baseado nele), os recebedores adquirirão automaticamente do licenciador original uma licença para copiar, distribuir ou modificar o Programa, sujeitos a estes termos e condições. Você não pode impor aos recebedores qualquer outra restrição ao exercício dos direitos ento adquiridos. Você não é responsável em garantir a concordância de terceiros a esta Licença.</para>

Se, em conseqüência de decisões judiciais ou alegações de infringeimento de patentes ou quaisquer outras razões (no limitados a assuntos relacionados a patentes), condições forem impositas a Você (por ordem judicial, acordos ou outras formas) e que contradigam as condições desta Licença, elas não o livram das condições desta Licença. Se Você não puder distribuir de forma a satisfazer simultaneamente suas obrigações para com esta Licença e para com as outras obrigações pertinentes, ento como consequência Você no poderá distribuir o Programa. Por exemplo, se uma licença de patente não permitir a redistribuição, livre de "royalties", do Programa, por todos aqueles que receberem cópias direta ou indiretamente de Você, ento a única forma de Você satisfazer a ela e a esta Licença seria a de desistir completamente de distribuir o Programa.

Se qualquer parte desta seção for considerada inválida ou não aplicável em qualquer circunstância particular, o restante da seção se aplica, e a seção como um todo se aplica em outras circunstâncias.

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Esta seção destina-se a tornar bastante claro o que se acredita ser consequência do restante desta Licença.

Se a distribuição e/ou uso do Programa so restritos em certos países por patentes ou direitos autorais, o detentor dos direitos autorais original, e que colocou o Programa sob esta Licença, pode incluir uma limitação geográfica de distribuição, excluindo aqueles países de forma a tornar a distribuição permitida apenas para aqueles ou entre aqueles países ento no excluídos. Nestes casos, esta Licença incorpora a limitação como se a mesma constasse escrita nesta Licença.

A Free Software Foundation pode publicar versões revisadas e/ou novas da Licença Pública Geral de tempos em tempos. Estas novas versões serão similares em espírito verso atual, mas podem diferir em detalhes que resolvem novos problemas ou situações.

A cada verso dada um número distinto. Se o Programa especifica um número de verso específico desta Licença que se aplica a ele e a "qualquer nova verso", você tem a opção de aceitar os termos e condições daquela verso ou de qualquer outra verso publicada pela Free Software Foundation. Se o Programa não especifica um
Se você pretende incorporar partes do Programa em outros programas livres, cujas condições de distribuição são diferentes, escreva ao autor e solicite permissão. Para o software que a Free Software Foundation detém direitos autorais, escreva: Free Software Foundation; às vezes nos permitimos exceções a este caso. Nossa decisão será guiada pelos dois objetivos de preservar a condição de liberdade de todas as derivações do nosso software livre, e de promover o compartilhamento e reutilização de software em aspectos gerais.

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EM NENHUMA OCASÃO, A MENOS QUE EXIGIDO PELOA LEIS APLICÁVEIS OU ACORDO EXPRESSO, OS DIREITOS AUTORAIS OU QUALQUER OUTRA PARTE QUE POSSA MODIFICAR E/OU REDISTRIBUIR O PROGRAMA CONFORME PERMITIDO ACIMA, SERÃO RESPONSABILIZADOS POR VOCÊ POR DANOS, INCLUINDO QUALQUER DANO EM GERAL, ESPECIAL, ACIDENTAL OU CONSEQUENTE, RESULTANTES DO USO OU INCAPACIDADE DE USO DO PROGRAMA (INCLUINDO, MAS NO LIMITADO A, PERDA DE DADOS OU DADOS TORNADOS INCORRETOS, OU PERDAS SUFRIDAS POR VOCÊ OU POR OUTRAS PARTE, OU FALHAS DO PROGRAMA AO OPERAR COM QUALQUER OUTRO PROGRAMA), MESMO QUE TAL DETENTOR OU PARTE TENHAM SIDO AVISADOS DA POSSIBILIDADE DE TAIS DANOS.
We protect your rights with two steps:

<orderedlist numeration="arabic">
<listitem>
<para>copyright the software, and</para>
</listitem>
<listitem>
<para>offer you this license which gives you legal permission to copy, distribute and/or modify the software.</para>
</listitem>
</orderedlist>
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

**Exception:**
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
You may copy and distribute the Program (or a work based on it, under Sections 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
Les llicencies de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, la Llicència pública general de GNU està pensada per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d’assegurar que el programari sigui lliure per a tots els seus usuaris i usuaris.

—

Gil Forcada

gilforcada@guifi.net

2013

Gil Forcada

—

Slvia Miranda

silviamira@gmail.com

2007

Slvia Miranda
Les llicències de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, la Llicència pública general de GNU est pensada per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d’assegurar que el programari sigui lliure per a tots els seus usuaris i usuries. Aquesta Llicència pública general s’aplicable a la majoria de programari de la Free Software Foundation (Fundació per al programari lliure) i a qualsevol altre programa els autors del qual es comprometin a utilitzar-la (alguns altres programari de la Free Software Foundation, en canvi, està protegit per la Llicència pública general per a biblioteques de GNU). També podeu aplicar-la als vostres programes.

Quan parlem de programari lliure ens referim a la llibertat, no al preu. Les nostres llicències públiques generals estan pensades per assegurar que tinguéu la llibertat de distribuir cpies del programari lliure (i de cobrar per aquest servei, si voleu); que rebéu el codi font o que, si el voleu, el puguéu rebre; que puguéu modificar el programari o fer-ne servir parts en programes lliures nous; i que sapiguéu que podeu fer totes aquestes coses.

Per a protegir els vostres drets, cal que apliquem restriccions que prohibeixin a tothom de negar-vos aquests drets o demanar-vos que hi renuncieu. Aquestes restriccions suposen determinades responsabilitats per a vs i distribueu cpies del programari o si el modifiquéu.

Protegim els vostres drets amb dos passos: (1) ens reservem el copyright del programari; i (2) us oferim aquesta llicència que us dona perms legal per a copiar, distribuir i/o modificar el programari.

A més a més, per protegir-nos i protegir l’autor o autora, volem estar segurs que tothom entn que no hi ha cap garantia per a aquest programari lliure. Si alg modificua el programari i el passa, volem que els destinatris es puguin aconsellar que el que tenen no és l’original, per tal que qualsevol problema que hagin pogut introduir terceres persones no repercuteixi en la reputació de l’autor o autora original.

Finalment, qualsevol programari lliure està constantment amenaat per les patents de programari. Volem evitar el perill que els redistributeurs d’un programari lliure acabin obtenint llicències de patents i que, com a conseqüència d’això, el programa esdevingui propietat exclusiva d’alg. Per evitar-ho, hem deixat clar que, de qualsevol patent, se n’han d’emetre llicències per a tothom o no es emetren cap.

Les condicions exactes per a la epia, distribuci i modificaci sn les segents.

Les llicències de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, la Llicència pública general de GNU est pensada per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d’assegurar que el programari sigui lliure per a tots els seus usuaris i usuries. Aquesta Llicència pública general s’aplicable a la majoria de programari de la Free Software Foundation (Fundació per al programari lliure) i a qualsevol altre programa els autors del qual es comprometin a utilitzar-la (alguns altres programari de la Free Software Foundation, en canvi, està protegit per la Llicència pública general per a biblioteques de GNU). També podeu aplicar-la als vostres programes. 

Per a protegir els vostres drets, cal que apliquem restriccions que prohibeixin a tothom de negar-vos aquests drets o demanar-vos que hi renuncieu. Aquestes restriccions suposen determinades responsabilitats per a vs i distribueu cpies del programari o si el modifiquéu.

Per exemple, si distribueu cpies d’un programa, tant si el distribueu de franc com si en feu pagar un preu, heu de donar als destinatris els mateixos drets que teniu vs. Us heu d’assegurar que ells tamb bé rebin o puguin aconsellar-ne el codi font, i els heu de fer saber aquests termes per tal que coneguin els seus drets.

Protegim els vostres drets amb dos passos: (1) ens reservem el copyright del programari; i (2) us oferim aquesta llicència que us dona perms legal per a copiar, distribuir i/o modificar el programari.

A més a més, per protegir-nos i protegir l’autor o autora, volem estar segurs que tothom entn que no hi ha cap garantia per a aquest programari lliure. Si alg modificua el programari i el passa, volem que els destinatris es puguin aconsellar que el que tenen no és l’original, per tal que qualsevol problema que hagin pogut introduir terceres persones no repercuteixi en la reputació de l’autor o autora original.

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Les condicions exactes per a la epia, distribuci i modificaci sn les segents.
TERMES I CONDICIONS PER A LA CPIA, DISTRIBUCI I MODIFICACI

<table>
<thead>
<tr><th>Secci 0</th></tr>
</thead>
<tbody>
<tr><p>Aquesta llicncia s aplicable a qualsevol programa o altra obra que contingui un avs del possedor del copyright que digui que es pot distribuir sota els termes d'aquesta llicncia pública general. D'ara endavant, el <q>programa</q> es refereix a aquest programa o obra, i una <q>obra basada en el programa</q> es refereix al programa o a qualsevol obra derivada segons la llei de copyright: s a dir, una obra que contingui el programa o alguna part del programa, ja sigui literalment o amb modificacions o b tradut a altres llenges (d'ara endavant, les traduccions s'inclouen sense cap limitaci en el terme <q>modificaci</q>). Ens referim a cada beneficiari de la llicncia com a <q>vs</q>.</p></tr>
</tbody>
</table>

<table>
<thead>
<tr><th>Secci 1</th></tr>
</thead>
<tbody>
<tr><p>Podeu copiar i distribuir cpies literals del codi font del programa tal com el rebeu, en qualsevol mitj, sempre que publiqueu en cada cpi, de manera adient i ben visible, una nota de copyright i una renuncia de garantia; manteniu intactes tots els avisos que fan referncia a aquesta llicncia i a l'absencia de garanties de cap mena; i liureu a qualsevol altre destinatari del programa una cpi d'aquesta llicncia juntament amb el programa. </p></tr>
</tbody>
</table>

<table>
<thead>
<tr><th>Secci 2</th></tr>
</thead>
<tbody>
<tr><p>Podeu modificar la cpi o cpies del programa o qualsevol tros del programa i, aix, fer una obra basada en el programa, i podeu copiar i distribuir aquestes modificacions o obres sota els termes de la <link linkend="sect1">Secci 1</link> anterior, sempre que tamb compliu les condicions segents: <ul><li>Heu de fer que els fitxers modificats portin indicacions ben visibles que diguin que heu modificat els fitxers, i hi heu d'escriure la data de la modificaci.</li><li>Heu d'atorgar gratutament a totes les terceres parts els termes d'aquesta mateixa llicncia sobre la totalitat de qualsevol obra que distribueus o publicueus, que completament o en part contingui o sigui un derivat del programa o qualsevol part del programa.</li><li>Si el programa modificat normalment lleigeix instruccions interactivament quan s'executa, heu de fer que quan s'arrenqui per a aquest s interactiu de la manera ms habitual, imprimeixi o mostri un missatge que inclogui una nota de copyright adient i un avs de que no hi ha garantia (o, si no, que digui que la garantia l'oferiu vs mateix) i que
els usuaris poden redistribuir el programa sota aquestes condicions, i que indiqui a l'usuari o usuria com veure una
copia d'aquesta llicència. <note>
<title>Excepció</title>
<para>Si el programa s interactui per normalment no porta cap indicació com la que s'ha descrit, tampoc cal que les
obres que feu basades en el programa en portin cap. </para>
</note></para>
</listitem>
</orderedlist></para>

<para>Aquests requeriments afecten l'obra modificada com un tot. Si hi ha parts identificables que no estan
derivades del programa, es poden considerar raonablement com a obres independents i separades en si mateixos,
aleshores aquesta llicència i els seus termes no s'apliquen a aquelles parts quan les distribueu com a obres separades.
Per quan distribueu aquestes mateixes parts integrades en un tot que sigui una obra basada en el programa, la
distribució del tot s'ha de fer d'acord amb els termes d'aquesta llicència, i els permisos atorgats a altres beneficiaris
abasten el tot sencer i, per tant, totes i cadascuna de les parts, independentment de qui les hagi escrites. </para>

<para>Així doncs, la intenció d'aquesta secció no s' reclamar o disputar-vos cap dret a codi que hagueres escrit del tot
vs mateix. La intenció s ha aviat exercir el dret a controlar la distribució d'obres derivades o collectives basades en el
programa. </para>

<para>A més a més, la simple agregació amb el programa (o amb una obra basada en el programa) d'altres obres no
basades en el programa en un volum d'un mitj d'emmagatzemament o de distribució no posa aquestes altres obres sota
l'embit de la llicència. </para>
</sect2>

<sect2 id="sect3" label="3">
<title>Secció 3</title>

<para>Podeu copiar i distribuir el programa (o una obra basada en el programa, segons la <link four=sect2">secció 2</link>) en forma executable o de codi objecte d'acord amb els termes de les <link four=sect1">seccions 1</link> i <link four=sect2">2</link> anteriors, amb la condició que també feu una de les coses següents: <orderedlist numeration="loweralpha">
<liitem>
<para>L'acompanyeu amb el codi font complet corresponent, capa de ser llegit per un ordinador, que es distribueix
 d'acord amb els termes de les <link four=sect1">seccions 1</link> i <link four=sect2">2</link> anteriors en un mitjà habitualment per a l'intercanvi de programari; o, </para>
</liitem>
</orderedlist>
</para>

<para>L'acompanyeu amb el codi font complet corresponent, capa de ser llegit per un ordinador, que es distribueix
 d'acord amb els termes de les <link four=sect1">seccions 1</link> i <link four=sect2">2</link> anteriors en un mitjà habitualment per a l'intercanvi de programari; o, </para>
</para>

<para>L'acompanyeu amb el codi font complet corresponent, capa de ser llegit per un ordinador, que es distribueix
 d'acord amb els termes de les <link four=sect1">seccions 1 i 2</link> anteriors en un mitjà habitualment per a l'intercanvi de programari; o, </para>
</para>

<para>L'acompanyeu amb la informació que hagueres rebut de l'oferiment de distribuir el codi font corresponent
(aquesta alternativa no s' permet per a la distribució no comercial i no sembla que heu rebut el programa en forma
executable o de codi objecte amb aquest oferiment, d'acord amb l'alternativa b anterior). </para>
</para>
</sect2>
El codi font per a una obra vol dir la forma preferida de l'obra per a fer-hi modificacions. Per una obra executable, el codi font complet vol dir tot el codi font per a tots els mduls que cont, ms tots els fitxers de definici d'interfcies associats si s'escau, ms els scripts que es facin servir per a controlar la compilaci i la installaci de l'executable si s'escau. Tanmateix, com a excepci especial, el codi font que es distribueixi no cal que inclogui res del que normalment es distribueixi (sia en forma binria o de codi font) amb els components principals (compilador, nucli o similars) del sistema operatiu en qu s'executa el programa, tret que el component en qesti acompanyi l'executable.</para>

Si la distribuci de l'executable consisteix a donar accs per a copiar-lo d'un lloc determinat, aleshores serveix com a distribuci del codi font el fet de donar un accs equivalent per a copiar el codi font, encara que les terceres parts no estiguin obligades a copiar el codi font en copiar el codi objecte.</sect2>

No podeu copiar, modificar, reemetre llicncies, o distribuir el programa si no s de la forma expressa que atorga aquesta Llicncia. Qualsevol altre intent de copiar, modificar, reemetre llicncies, o distribuir el programa s illicit i finalitzar automticament els drets que hagueu obtingut d'aquesta llicncia. Tanmateix, les parts que hagin rebut de vs cpies o drets d'acord amb aquesta llicncia no veuran les seves llicncies finalitzades mentre segueixin observant-les estrictament.</sect2>

No esteu obligat a acceptar aquesta llicncia, ja que no l'heu signada. Tanmateix, no hi ha cap altra opci que us doni perms per modificar o distribuir el programa o les seves obres derivades. Aquestes accions queden prohibides per la llei si no acpteu aquesta llicncia. Aix doncs, en modificar o distribuir el programa o les seves obres derivades, indiqueu que acpteu aquesta llicncia per a fer-ho, i tots els seus termes i condicions per copiar, distribuir o modificar el programa o obres que hi estiguin basades.</sect2>

Cada cop que distribuu el programa (o qualsevol obra basada en el programa), el destinatari rep automticament, de qui va emetre la llicncia originriament, una llicncia per copiar, distribuir o modificar el programa sotmesa a aquests termes i condicions. No podeu imposar cap ms restricci a l'exercici dels drets que aqu es confereixen. No sou responsable de fer complir aquesta llicncia a terceres parts.</sect2>

Si, a conseqncia d'una decisi judicial, una demanda per infracci d'una patent o per qualsevol altra ra (no
exclusivament relacionada amb patents), se us imposen condicions (tant si s per ordre judicial, acord, o el que sigui) que contradiuen les condicions d'aquesta llicncia, no queus excusat de les condicions d'aquesta llicncia. Si no us s possible distribuir de manera que satisfeu a la hora les obligacions que us imposa aquesta llicencia i qualsevol altra obligaci pertinent, aleshores no podeu distribuir el programa en absolut. Per exemple, si una llicncia de patent no permet us redistributeu gratutament el programa a aquells que hagin rebut cules de vs directament o indirecta, aleshores la nica manera en qu podreu satisfacer tant aix com aquesta llicencia seria abstenir-vos completament de distribuir el programa.</para>

<para>Si qualsevol fragment d'aquesta secci queds invalidat o no es pogus fer complir en qualsevol circumstncia particular, la intenci s que s'apliqui el balan de la secci, i que s'apliqui la secci en la seva totalitat en altres circumstncies.</para>

<para>El propsit d'aquesta secci no s induir-vos a infringir cap patent ni cap altre requeriment del dret a la propietat, o a discutir-ne la validesa; l'nic propsit d'aquesta secci s protegir la integritat del sistema de distribució de programari lliure, que s'implementa amb prctiques de llicncia pblica. Molta gent ha fet generouses contribucions a l'ampli ventall de programari distribut per aquest sistema refiant-se de l'aplicaci consistent del sistema; li pertoca a l'autor, autora o donant decidir si vol distribuir programari per algun altre sistema, i un beneficiari de la llicncia no pot imposar aquesta elecci.</para>

<para>Aquesta secci pretn deixar del tot clar el que es considera una conseqncia de la resta de la llicncia.</para>

<sect2 id="sect8" label="8">
<title>Secci 8</title>

<para>Si hi ha pasos que restringieixen la distribució o l s del programari, ja sigui per patents o per interficies sota copyright, el possedor del copyright original que posi el programa sota aquesta llicncia pot afegir limitacions geogrífiques explícites que exclouguin aquests pasos, de manera que la distribució noms qued permesa dins dels pasos no exclosos, o entre ells. En tal cas, aquesta llicncia incorpora la limitaci com si estigu escrita en el text de la llicncia.</para>

<sect2 id="sect9" label="9">
<title>Secci 9</title>

<para>La Free Software Foundation pot publicar versions revisades o noves de la llicncia pblica general de tant en tant. Aquestes versions noves seran semblants en esperit a la versi present, per poden diferir en detalls per tractar noves preocupacions o problemes.</para>

<para>Cada versi rep un nmero de versi distintiu. Si el programa especifica un nmero de versi d'aquesta llicncia que li s aplicable i que tamb s aplicable a <quote>qualsevol versi posterior</quote>, teniu l opci de seguir els termes i condicions de la versi especificada o b els de qualsevol versi publicada posteriorment per la Free Software Foundation. Si el programa no especifica un nmero de versi d'aquesta llicncia, podeu triar qualsevol versi que hagi publicat la Free Software Foundation en qualsevol data.</para>

<sect2 id="sect10" label="10">
<title>Secci 10</title>
Si voleu incorporar parts del programa en altres programes lliures les condicions de distribució dels quals
sn diferents, escriviu a l’autor per demanar-li perms. Per al programari que est sota copyright de la Free Software
Foundation, escriviu a la Free Software Foundation; de vegades fem excepcions per a permetre-ho. Prendrem la
nosta decisi guiats pels dos objectius de mantenir la condici de lliure de tots els derivats del nostre programari lliure
i de promoure la compartici i la reutilitzaci del programari en general.</para>

ATS QUE EL PROGRAMARI T UNA LLICENCIA GRATU TA, NO SE N’OFEREIX CAP TIPUS DE
GARANTIA, EN LA MESURA PERMESA PER LES LLEIS APLICABLES. LLEVAT DELS CASOS EN QU
S’AFIRMI EL CONTRARI PER ESCRIT, ELS LLICENCADORS I/O LES ALTRES PARTS OFEREIXEN EL
PROGRAMA <quote>TAL COM S</quote>, SENSE CAP TIPUS DE GARANTIA, NI EXPLCITA NI
IMPLICITA; AIX INCLOU, SENSE LIMITAR-SHI, LES GARANTIES IMPLICITES DE COMERCIALIZACI I
ADEQUACI A UN S CONCRET. TOT EL RISC PE LA QA A LA QUALITAT I RENDIMENT DEL
PROGRAMA S VOSTRE. EN CAS QUE EL PROGRAMA RESULTS DEFECTUS, VS ASSUMIU TOT EL
COST D’ASSISTNCIA, REPARACI O CORRECCI.</para>

EL POSSEDOR DEL COPYRIGHT, O QUALSEVOL ALTRA PART QUE PUGUI MODIFICAR O
REDISTRIBUIR EL PROGRAMA TAL I COM ES PERMET MS AMUNT NO US HAUR DE RESPONDRE EN
CAP CAS, TRET DEL QUE REQUEREIXI LA LLEI APLICABLE O ELS ACORDS PER ESCRIT, PER
PERJUDICIS, INCLUSOS ELS INCIDENTALS, DERIVATS, ESPECIALS O GENERALS QUE ES DERIVIN
DE L’S O DE LA IMPOSIBILITAT D’S DEL PROGRAMA (INCLOSES, ENTRE D’ALTRES, LES PRDUES
DE DADES, LES DADES QUE EL PROGRAMA HAGI MALMS, LES PRDUES QUE US HAGI PROVOCAT A
VS O A TERCERS O LA IMPOSIBILITAT QUE EL PROGRAMA FUNCIONI AMB QUALSEVOL ALTRE
PROGRAMA), FINS I TOT SI AQUEST POSSEDOR O ALTRA PART HA ESTAT ADVERTIDA DE LA
POSSIBILITAT D’AQUESTS PERJUDICIS.
Dovoljenja veine programske opreme so zasnovane tako, da prepreujejo njegovo svobodno razirjanje in spreminjanje. Za razliko od teh pa Splono Javno Dovoljenje GNU (angl. GNU General Public License, GPL) jami svobodo pri razirjanju in spreminjanju proste programske opreme ter s tem zagotovilo, da ostane ta prosta za vse njene uporabnike. (Nekatera druga programska oprema ustanove Free Software Foundation je namesto tega pokrita s Splonim dovoljenjem GNU za knjinice, angl. GNU Library General Public License.) Uporabite jo lahko tudi za vae programe.

Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona Javna dovoljenja GNU zagotavlja pravico raziranja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do
dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanje njenih delov v novi proisti programski opremi; in seznanjanje z vsemi temi pravicami.</para>

<para>Zaradi zavarovanja vah pravic je uvedena omejitev, ki prepoveduje vsakomur, da bi vam te pravice kratil ali od vas zahteval predajo teh pravic. Te omejitve se prevedejo v vao odgovornost, e razirjate kopije programske opreme ali jo spreminjate.</para>

<para>Na primer, e razirjate kopije takega programa, bodisi zastonj ali za plailo, morate dati prejemnikom vse pravice, ki jih imate vi. Prepriate se morate, da bodo tudi oni prejeli ali imeli dostop do izvorne kode. In morate jim pokazati te pogoje (opp. izvirnik), da bodo poznali svoje pravice.</para>

<para>Pravice uporabnika so varovanev dveh korakih: <orderedlist numeration="arabic">
  <listitem>
    <para>s pravno zaito programske opreme in</para>
  </listitem>
  <listitem>
    <para>ponujenim dovoljenjem, ki vam daje pravno dovoljenje za razmnoevanje, razirjanje in/ali spreminjanje programske opreme.</para>
  </listitem>
</orderedlist></para>

<para>Prav tako, za zaito vsakega avtorja in zaradi nae zaite elimo zagotoviti, da vsakdo razume, da za to prosto programsko opremo ni nobenega jamstva. e je programsko opremo spremenil nekdo drug in ga posredoval naprej, elimo, da njegovi prejemniki vedo, da to, kar imajo, ni izvirnik, zato da se problemi, ki jih povzroijo drugi, ne bodo odraali na ugled izvornega avtorja.</para>

<para>Konno, vsaki prosti programski opremi nenehno grozijo programski patenti. elimo se izogniti nevarnosti, da bi razirjevalci proste programske opreme posamino dobivali patentna dovoljenja in s tem naredili program lastniki (angl. proprietary). Za prepreitev tega jasno zahtevamo, da mora biti dovoljenje vsakega patenta tako, da ga lahko vsakdo prosto uporablja, ali pa sploh ne sme biti omejen s kakrnimkoli dovoljenjem.</para>

<sect1 id="terms" label="none">
<title>Doloila in pogoji za razmnoevanje, razirjanje in spreminjanje</title>

<sect2 id="sect0" label="0">
<title>Razdelek 0</title>

<para>Dovoljenje se nanaa na vsak program ali drugo delo, ki vsebuje obvestilo lastnika avtorskih pravic (angl. copyright holder) z izjavo, da se program ali drugo delo lahko razirja pod pogoji Splonega Javnega Dovoljenja GNU (angl. General Public License). <quote>Program</quote> se v nadaljevanju nanaa na vsak tak program ali delo, in <quote>delo, ki temelji na tem programu</quote> pomeni bodisi program ali pa katerokoli izvedeno delo po zakonu o avtorskih pravicah (angl. copyright law): se pravi delo, ki vsebuje program ali njegov del, bodisi dobesedno ali s spremembami in/ali prevedeno v drug jezik. (Tukaj in povsod v nadaljevanju je prevod vkljuen brez omejitve v pojem <quote>spremembe</quote>.) Vsak zavezanec k dovoljenju je opredeljen kot <quote>vi</quote>.</para>
Dovoljeno je razmnoevati in razirjati dobesedne izvode izvorne kode programa v enaki obliki, kot jo dobite, preko kateregakoli nosilca, e je le na vsakem izvodu razlono in primerno objavljeno obvestilo o pravicah razirjanja in zanikanje jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsaknega jamstva pustite nedotaknjena; in da prejmejo vse drugi prejemniki programa poleg programa e izvod tega dovoljenja.

Zagotoviti je treba, da spremenjene datoteke nosijo vidna obvestila o tem, da so spremenjena in datum vsake spremembe.

Zagotoviti je treba, da je vsako delo, ki ga razirjate ali izdajate in ki v celoti ali deloma vsebuje program ali katerikoli njegov del ali pa je iz njega izpeljano, objavljeno pod pogoji tega dovoljenja kot celota brez plaila katerikoli tretji osebi.

Zagotoviti je treba, da spremenjeni program ob zagonu navadno bere ukaze interaktivno, je treba zagotoviti, da se ob najbolj obajan zagonu za takno interaktivno uporabo izpie ali pokaa najava, ki vkljuje ustrezno sporoilo o pravicah razirjanja in sporoilo, da jamstvo ni zagotovljeno (ali pa sporoilo, da ponujate jamstvo) in da lahko uporabniki razirjajo program pod temi pogoji, in pove uporabniku, kako pogledati izvod tega dovoljenja.

Izjema:

Je sam program interaktivni, vendar navadno ne izpie takne najave, tudi za vae delo, ki temelji na programu, ni nujno, da jo.

Te zahteve se nanaajo na spremenjeno delo kot celoto. e razdelki tega dela, ki jih je lahko prepoznati, niso izpeljani iz programa in se jih lahko ima za neodvisna in loena dela sama po sebi, potem to dovoljenje in njeni pogoji zanje ne veljajo, kadar jih razirjate loeno. Vendar, kadar te iste razdelke razirjate kot del celote, ki je delo, ki temelji na programu, mora biti razirjanje celote izvedeno pod pogoji tega dovoljenja, katerega dovoljenja za druga
dovoljena se razirjajo na vso celoto in torej na vsak njen del, ne glede na to, kdo ga je napisal.</para>

</para>Torej, namen tega razdelka ni, da bi zanikal ali spodbijal vae pravice do dela, ki ste ga v celoti napisali sami; namesto tega je namen raziriti pravico do nadzora razirjanja na izpeljana ali zbrana dela, ki temeljijo na programu.</para>

</para>Poleg tega, e gre za zgolj kopijenje drugega dela, ki ne temelji na programu, s programom (ali z delom, ki temelji na programu) na mediju za shranjevanje ali distribucijskem mediju, se dovoljenje na to drugo delo ne nanaa.</para>

</sect2>

<sect2 id="sect3" label="3">
<title>Razdelek 3</title>

<para>Program (ali delo, ki temelji na njem, pod doloil <link linkend="sect2">razdelka 2</link>) je dovoljeno razmnoevati in razirjati v objektini kodi ali izvedljivi obliki pod pogoji zgornjih <link linkend="sect1">razdelkov I</link> in <link linkend="sect2">2</link>, e izpolnite tudi kaj od tega: <orderedlist numeration="loweralpha">
</listitem>
<para>opremite ga s popolno in ustreznou izvorno kodo v strojno berljivi obliki, ki mora biti razirjana pod pogoji zgornjih razdelkov I in 2 na nosilcu, ki se navadno uporablja za izmenjavo programske opreme; ali, </para>
</listitem>
</orderedlist></para>

Izvorna koda pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri izvedljivem delu pomeni izvorna koda vse izvorne kode za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z definicijami vmesnika, povezane s tem delom in skripte, uporabljane za nadzor prevajanja in namenitev izvedljive datoteke. Vendar - kot posebna izjema - ni nujno, da razirjana izvorna koda vkljuje vse, kar se navadno razirja (v izvorni ali strojni obliki) z vejimi komponentami (prevajalnik, jedro, in tako naprej) operacijskega sistema, na katerem tee izvedljiva datoteka, razen e ta komponenta spremlja izvedljivo datoteko.</para>

e se razirjanje izvedljive datoteke ali objektne kode izvede s ponujenim dostopom za prepisovanje z za to namenjenega mesta, potem ponujanje ekvivalentnega dostopa za razmnoevanje izvorne kode z istega mesta teje kot razirjanje izvorne kode, eprav tretje osebe niso prisiljene razmnoevati izvorne kode poleg objektne kode.</para>
</sect2>

<sect2 id="sect4" label="4">
<title>Razdelek 4</title>

<para>Izvorna koda pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri izvedljivem delu pomeni izvorna koda vso izvorno kodo za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z definicijami vmesnika, povezane s tem delom in skripte, uporabljane za nadzor prevajanja in namenitev izvedljive datoteke. Vendar - kot posebna izjema - ni nujno, da razirjana izvorna koda vkljuje vse, kar se navadno razirja (v izvorni ali strojni obliki) z vejimi komponentami (prevajalnik, jedro, in tak naprej) operacijskega sistema, na katerem tee izvedljiva datoteka, razen e ta komponenta spremlja izvedljivo datoteko.</para>

e se razirjanje izvedljive datoteke ali objektne kode izvede s ponujenim dostopom za prepisovanje z za to namenjenega mesta, potem ponujanje ekvivalentnega dostopa za razmnoevanje izvorne kode z istega mesta teje kot razirjanje izvorne kode, eprav tretje osebe niso prisiljene razmnoevati izvorne kode poleg objektne kode.</para>
Ni dovoljeno razmnoevati, spreminjati, podrejati dovoljenja ali razirjati programa drugae, kot to izrecno doloa priujo dovoljenje. Vsak drugi poskus razmnoevanja, spreminjanja, podrejanja dovoljenja ali razirjanja Dokumenta je nien, in samodejno prekine vae pravice, izhajajo iz tega dovoljenja. Vendar pa se osebam, ki so svoj izvod ali pravice dobile od vas pod tem dovoljenjem, dovoljenje ne prekine, dokler se ji popolnoma podrejajo.

Razdelek 5

Ni vam treba sprejeti pogojev dovoljenja, saj ga niste podpisali. Vendar vam razen nje ni ne dovoljuje spreminjanja ali razirjanja programa ali iz njega izpeljanih del. e ne sprejmete tega dovoljenja, ta dejanja prepoveduje zakon. Torej, s spremembo ali razirjanjem programa (ali kateregakoli dela, ki temelji na programu), pokaste svoje strinjanje s tem dovoljenjem in z vsemi njegovimi dolooli in pogoji za razmnoevanje, razirjanje ali spreminjanje programa ali del, ki temeljijo na njem.

Razdelek 6

Vsaki, ko razirjate program (ali katerokoli delo, ki temelji na programu), prejemnik samodejno prejme dovoljenje izvornega izdajatelja dovoljenja (angl. original licensor) za razmnoevanje, razirjanje ali spreminjanje programa glede na ta doloa in pogoje. Ni dovoljeno vsiljevati nobenih nadaljnjih omejitev izvajanja prejemnikovih pravic, podeljenih tukaj. Niste odgovorni za vsiljevanje strinjanja tretjih oseb s tem dovoljenjem.

Razdelek 7

e so vam, kot posledica presoje sodia ali suma krivte patenta ali zaradi kateregakoli drugega razloga (ne omejenega zgolj na patentna vpraanja), vsiljeni pogoji (bodisi z odlokom sodia, sporazumom ali drugae), ki nasprotujejo pogojem tega dovoljenja, vas ne odvezujo pogojev tega dovoljenja. e programa ne morete razirjati tako, da hkrati zadostite svojim obvezam pod dovoljenjem in katerimkoli drugim pristojnim obvezam, potem posledino sploh ne smete razirjati programa. Na primer, e patentno dovoljenje ne dovoli razirjanja programa brez plaavanja avtorskega honorarja vseh, ki prejmejo kopije neposredno ali posredno od vas, potem je edina mona pot, da zadostite temu pogoju in temu dovoljenju ta, da se v celoti vzdrite razirjanja programa.

e se za katerikoli del tega razdelka ugotovi, da je neveljaven ali da se ga ne da izvajati pod kateremkoli doloenim pogojem, je miljeno, da velja usmeritev tega razdelka (angl. balance of the section) in razdelek kot celota velja v drugih primerih.

e so vam, kot posledica presoje sodia ali suma krivte patenta ali zaradi kateregakoli drugega razloga (ne omejenega zgolj na patentna vpraanja), vsiljeni pogoji (bodisi z odlokom sodia, sporazumom ali drugae), ki nasprotujejo pogojem tega dovoljenja, vas ne odvezujo pogojev tega dovoljenja. e programa ne morete razirjati tako, da hkrati zadostite svojim obvezam pod dovoljenjem in katerimkoli drugim pristojnim obvezam, potem posledino sploh ne smete razirjati programa. Na primer, e patentno dovoljenje ne dovoli razirjanja programa brez plaavanja avtorskega honorarja vseh, ki prejmejo kopije neposredno ali posredno od vas, potem je edina mona pot, da zadostite temu pogoju in temu dovoljenju ta, da se v celoti vzdrite razirjanja programa.

Namenska razdelka ni, da bi vas napeljeval h kritvi patentov ali drugih trditev lastnita pravic ali izpodbijal veljavnost katerihkoli takih trditev; edini namen tega razdelka je itenje integritete sistema distribucije proste programa opreme, ki je izveden s prakso javnih dovoljenj. Mnogi ljudje so radodarno prispevali k iroemku naboru programa opreme, razirjane preko tega sistema, v upanju na njegovo dosledno izvajanje; od avtorja/dajalca je odvisno, e je pripravljen razirjati programa skozi katerikoli drug sistem, in izdajatelj dovoljenja ne more vsiljevati te izbire.
Ta razdelek namerava temeljito pojasniti, kaj so predvidene posledice nadaljevanja dovoljenja.

Razdelek 8

e sta razirjanje in/ali uporaba programa omejena v doloenih dravah, bodisi zaradi patentov ali vmesnikov s posebno pravico razirjanja (angl. copyrighted interfaces), lahko izvorni lastnik ali lastnica pravic razirjanja, ki postavlja program pod to dovoljenje, doda izrecno zmljepinsno omejitev razirjanja, ki izkljuje te drave, tako da je razirjanje dovoljeno le v in med dravami, ki niso na tak na in izkljuene. V takem primeru to dovoljenje vkljuje omejitve, kot da so napisane v telesu tega dovoljenja.

Razdelek 9

Ustanova Free Software Foundation lahko od asa do asa izdaja preurejene in/ali nove razliice Splonega Javnega dovoljenja (angl. General Public License). Nove razliice bodo pisane v duhu trenutne razliice, vendar se lahko razlikujejo v podrobnostih, ki bodo obravnavale nove teave ali poglede.

Vsaki različi je prirejena razloevalna tevilka različice. e program doola tevilko različice tega dovoljenja, ki se nanaa nan in  
na katerekoli pozneje različice, imate izbiro upotevanja pogojev in doloil bodisi te različice ali katerekoli pozneje različice, ki jo je izdala ustanova Free Software Foundation. e program ne doola tevilke različice tega dovoljenja, lahko izberete katerokoli različico, ki jo je kdajkoli izdala ustanova Free Software Foundation.

Razdelek 10

e elite vkljuiti dele programa v druge proste programe, katerih pogoji razirjanja so drugani, piite avtorju in ga prosite za dovoljenje. Za programje, katerega pravice razirjanja ima Free Software Foundation, piite na Free Software Foundation; vasi naredimo izjemo pri tem. Nao odloitev bosta vodila dva cilja: ohranitev prostega statusa vseh izvedenih del iz nae proste programske opreme in spodbujanje razdeljevanja in ponovne uporabe programja na splono.

BREZ JAMSTVA

KER JE PROGRAM Z DOVOLJENJEM OPREDELJEN KOT BREZPLAEN, NI NOBENEGA JAMSTVA ZA PROGRAM DO MEJE, KI JO DOLOA PRISTOJNI ZAKON. RAZEN, E NI DRUGAE NAPISANO, IMETNIKI PRAVIC RAZIRJANJA IN/ALI DRUGE OSEBE PONUJAJO PROGRAM TAK, KOT JE, BREG ZAGOTOVILA KAKRNEKOLI VRSTE, NEPOSREDNEGA ALI POSREDNEGA, KAR VKLJUJE, A NI OMEJENO NA POSREDNA JAMSTVA CENOVNE VREDNOSTI IN PRIMERNOSTI ZA DOLOENO UPORABO. CELOTNO TVEGANJE GLEDE KAKOVOSTI IN DELOVANJA
PROGRAMA PREVZAMETE SAMI. E SE PROGRAM IZKAZ ZA OKVARJENEGA, SAMI NOSITE STROKE VSEH POTREBNIH STORITEV, POPRAVL ALI POPRAVKOV.</para>

V NOBENEM PRIMERU, RAZEN E TAKO PRAVI VELJAVNI ZAKON ALI JE PISNO DOGOVORJENO, NE BO LASTNIK PRAVIC RAZIRJANJA ALI KATERAKOLI DRUGA OSEBA, KI LAHKO SPREMI IN ALI PONOVNO RAZIRJA PROGRAM, KOT JE DOVOLJENO ZGORAJ, PREVZEL ODGOVRNOSTI ZARADI KODE, NAJSI GRE ZA SPLONO, POSEBNO, NENAMERNO KODO ALI KODO, IZHAJAJOZ IZ UPORABE ALI NEZMONOSTI UPORABE PROGRAMA (VKLJUNO Z, A NE OMEJENO NA, IZGUBO PODATKOV ALI NENATANNO OBDELAVO PODATKOV ALI IZGUBO, POVZROENO VAM ALI TRETJIM OSEBAM ALI NEZMONOST PROGRAMA, DA BI DELOVAL S KAKIM DRUGIM PROGRAMOM), ETUDI JE BIL TAK LASTNIK ALI DRUGA OSEBA OBVEEN O MONOSTI NASTANKA TAKNE KODE.</para>
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Dous son os pasos para protexer os seus dereitos: 

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Ademais, como medida de proteccin para todos os autores e para ns mesmos, importante deixarlles claro a todas as partes que non existe garanta para este software libre. No caso de que calquera usuario modifique o software e logo o distribua a un terceiro, os receptores deben saber que o que se lle entrega non o software orixinal, de xeito que calquera problema introducido pola outra parte non afecte a reputacin dos autores orixinais.

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A seguir detllanse os termos e condicins exactos para a copia, distribucin e modificacion.
Sección 1

Pode modificar a sa copia ou copias do Programa, ou calquera parte del, e obter as un produto baseado no Programa, as como copiar e distribuir as devanditas modificacins ou produto de acordo cos termos do apartado 1 anterior, sempre que cumpra tamn con todas as condicins seguintes:

Pode cobrar unha taxa polo acto fisico de transferir unha copia e, se vostede quixer, pode tamn ofrecer unha determinada garanta a cambio do pagamento dunha taxa.

Sección 2

Pode modificar a sa copia ou copias do Programa, ou calquera parte del, e obter as un produto baseado no Programa, as como copiar e distribuir as devanditas modificacins ou produto de acordo cos termos do apartado 1 anterior, sempre que cumpra tamn con todas as condicins seguintes:

Debe facer que calquera produto distribuido ou publicado por vostede, que en todo ou en parte contea ou derive do Programa ou de calquera parte do Programa, obte una licenza no seu conxunto sen que isto repercuta en ningun gasto para calquera terceira parte de acordo cos termos desta licenza.

Se o programa modificado adoita ler comandos de forma interactiva ao executalo, debe facer que, cando se execute para tal uso interactivo na forma mis habitual, mostre ou exhiba un aviso no que se inclan as oportunas informacins relativas propiedade intelectual do programa e ausencia de toda garanta (ou, se for o caso, ao feito de que vostede quen proporciona a garanta), a indicacin de que os usuarios poden redistribuir o programa consonte estas condicins e a informacin necesaria para que o usuario saiba como acceder a unha copia desta licenza. Excepción:

Se o Programa en si mesmo interactivo pero non adoita mostrar avisos deste tipo, non necesario que o seu produto baseado no Programa exhiba ningun aviso.

Estes requisitos aplcanse ao produto modificado no seu conxunto. Se o produto contn seccins facilmente identificables non derivadas do Programa, que razoablemente se poidan considerar como produtos separados e independentes por si mesmos, esta licenza e mais os seus termos non sern aplicables s devanditas seccins cando se distribun como produtos separados. Pero se esas mesmas seccins se distribuen como parte dun todo consistente nun producto baseado no Programa, a distribucin do todo deber de se acoller aos termos desta licenza, cuxas disposicins, aplicables a todos os demais titulares da licenza, abranguen o conxunto completo e, en consecuencia, todas e cada unha das partes do conxunto independentemente de quen as escribise.
<para>As, o obxectivo deste apartado non reclamar dereitos ou rebater os seus dereitos sobre calquera produto escrito por vostede na sa totalidade; mis ben ao contrario, o seu obxectivo exercer o dereito de controlar a distribución de produtos derivados ou colectivos baseados no Programa.</para>

<para>Ademais, a simple agregación ao Programa (ou a un produto baseado no Programa) doutro produto non baseado no Programa nun volume dun medio de distribución ou almacenamento non implica a inclusión do outro produto no mítio de aplicación desta licenza.</para>

<sect2 id="sect3" label="3">
<title>Sección 3</title>

<pode copiar e distribuir o Programa (ou un produto baseado nel, segundo os termos do <link linkend="sect2">apartado 2</link>) en código obxecto ou forma executable de acordo co establecido nos <link linkend="sect1">apartados 1</link> e <link linkend="sect2">2</link> anteriores, sempre que cumpra tamén con un dos seguintes requisitos: <orderedlist numeration="loweralpha">
  <listitem>
    <para>Acompáalo do correspondente código fonte completo nun formato lexible por máquina, que se ha de distribuir de acordo co estipulado nos apartados 1 e 2 anteriores nun soporte tipicamente utilizado para o intercambio de software.</para>
  </listitem>
  <listitem>
    <para>Acompáalo dunha oferta por escrito, cunha validez mínima de tres anos, na que se entregue a calquera terceiro interesado, por un custo nunca superior aos gastos nos que vostede poida incorrer pola execución física da distribución do código fonte, unha copia completa en formato lexible por máquina do código fonte correspondente, que se ha de distribuir de acordo co estipulado nos apartados 1 e 2 anteriores nun soporte tipicamente utilizado para o intercambio de software.</para>
  </listitem>
  <listitem>
    <para>Acompáalo da información que recibiu vostede verbo da oferta de distribución o código fonte correspondente. (Esta opción sest permitida para a distribución non-comercial, e únicamente no caso de que vostede recibise o programa en código obxecto ou forma executable dunha oferta como a que se acaba de explicar, de acordo con subapartado b anterior.)</para>
  </listitem>
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<para>Enténdese por código fonte dun traballo o seu formato mis idneo hora de realizar modificacións nel. No caso dun traballo executable, enténdese por código fonte completo todo o código fonte para todos os módulos que inclúa, ademais de todos os ficheiros de definición de interfaces asociados e os scripts utilizados para controlar a compilación e a instalación do executable. Porén, como caso excepcional, o código fonte distribuido non precisa incluír nada que se distribúa normalmente (xa sexa de forma binaria ou fonte) cos componentes principais (compilador, nucleo etc.) do sistema operativo en que se executa o executable, ags que ese propio componente acompae o executable.</para>

<para>Se a distribución do código obxecto ou executable se realiza concedendo acceso de copia desde un lugar determinado, entra a concesión de acceso equivalente para copiar o código fonte do mesmo lugar considérase como distribución do código fonte, anda que ningun terceiro estea obrigado a copiar o código fonte xunto ao obxecto.</para>
</sect2>
Sección 4

No le está permitido copiar, modificar, emitir una sublicencia ni distribuir el Programa a no ser en los términos específicamente estipulados en esta licencia. Cualquier otro intento de copiar, modificar, emitir una sublicencia o distribuir el Programa se considerará nulo, e implicará la cancelación automática de los derechos que le concede esta licencia. No obstante, las partes que usted conceda copias o derechos consiente los términos de esta licencia no verán resoltas sus respectivas licencias, siempre que cumplan plenamente con todo o que nelas se estipula.

Sección 5

Dado que anda no a asinou, no está obligado a aceptar los términos de esta licencia. Por lo tanto, es el único que el autoriza a modificar o distribuir el Programa o cualquier producto derivado. Estas acciones están prohibidas por ley mientras no acepte esta licencia. Xa que logo, mediante la modificación o distribución del Programa (o de cualquier producto basado en el Programa) usted expresa su aceptación de esta licencia para la realización de las derivadas acciones, así como de todos los términos y condiciones estipulados en ella para la copia, distribución o modificación del Programa o de cualquier producto basado en el.

Sección 6

Cada vez que redistribuya el Programa (o cualquier producto basado en el Programa), el receptor recibirá automáticamente una licencia por parte del emisor de la licencia original que le permitirá copiar, distribuir o modificar el Programa consiente estos términos y condiciones. Usted no podrá imponer ninguna otra restricción sobre el ejercicio de los derechos estipulados en parte del receptor. Usted no es responsable de exigirle a un tercero o cumplimiento de los términos estipulados en esta licencia.

Sección 7

Si, como consecuencia de un proceso judicial o de una acusación por violación de patentes, o por cualquier otra causa (sin limitarse a los temas de patentes), resultase la imposición de cualquier condición sobre usted (ya sea por orden judicial, por acuerdo o por cualquier otra causa) que contradiga las condiciones de esta licencia, esto no excusa el cumplimiento de las condiciones de esta licencia. De no lle ser posible distribuir el Programa respetando las obligaciones contraídas bajo esta licencia y, ademá, calquera outra obriga pertinente, entn ter que deixar de distribuílo en ningún modo. Por ejemplo, no caso de existir una licencia de patente que no permita a la redistribución del Programa exenta de derechos de autor por parte de todos aquellos que recibisen copias de manera directa o indirecta de usted, el único modo de cumplir los términos de la derivada licencia de patente y más de esta licencia al mismo tiempo será evitando por completo la distribución del Programa.

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La finalitat d'aquesta Llicncia s crearen manuals, llibres de text o altres documents escrits <quote>lliures</quote> pel que fa a la llibertat; per assegurar tothom la llibertat real de copiar-los i redistribuir-los, modificant-los o no, amb finalitats comercials o no. Addicionalment, aquesta Llicncia assegura l'autor i l'editor una manera d'obtenir crdit per la seva obra sense ser considerat responsables de les modificacions fetes pels altres. 

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Hem dissenyat aquesta Llicncia per tal d'utilitzar-la en manuals de programari lliure, perquè el programari lliure necessita documentació lliure: un programa lliure ha de venir amb manuals que tinguin les mateixes llibertats que t el programari. Per aquesta Llicncia no es limita als manuals de programari; es pot utilitzar per a qualsevol obra de text, independentment del seu tema o de si s'ha publicat en forma impresa o no. Recomanem aquesta Llicncia especialment per a obres la finalitat de les quals sigui formació o consulta.

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Les seccions invariables s determinades seccions amb títol que no es distribueixen sota aquesta Llicncia.

Els textos de portada s determinats fragments breus de text que consten com a Textos de portada o Textos de contraportada en l'avi que indica que es distribueix sota aquesta Llicencia.
Una còpia "Transparent" del document significa una còpia que pugui ser llegida per una màquina, presentada en un format les especificacions del qual siguin accessibles al públic en general, els continguts de la qual es poden visualitzar i editar directament amb editors de text genèrics, o, per a imatges composesades de pixels, amb programes gràfics genèrics, o, per a dibuixos, amb editors de dibuixos fàcilment accessibles, i que es pugui introduir a formatters de text, o a traductors automàtics en una varietat de formats que es puguin introduir a formatters de text. Una còpia feta en un format de fitxer Transparent, l'etiquetatge del qual hagi dissenyat per obstaculitzar o dissuadir als lectors de fer-hi ulteriors modificacions no és Transparent. Una còpia que no és "Transparent" s'anomena "Opaca".

Algunes dels formats adequats per a còpies Transparents són: ASCII net sense etiquetatge, format d'entrada Texinfo, format d'entrada LaTeX, SGML o XML que utilitzin un DTD accessible per a tothom, i HTML senzill que compleixi amb els estàndards que estigui dissenyat per a la modificació humana. Els formats opacs inclouen PostScript, PDF, els formats de propietat que només es poden llegir i editar per processadors de textos de propietat, SGML o XML el DTD i/o eines de processament dels quals no siguin fàcilment accessibles, i HTML generat automàticament per alguns processadors de textos només per a la sortida.

La "Pàgina de títol" significa, per a un llibre impres, la pròpia pàgina de títol, ms totes aquelles pàgines que siguin necessàries per contenir, de manera ilegible, el material que aquesta Llicència requereix que aparegui a la pàgina de títol. Per a les obres que, a causa del format de les quals, no tinguin pròpiament una pàgina de títol, la "Pàgina de títol" significa el text proper a l'aparició ms destacada del títol de l'obra, precedint el començament del cos del text.

Podeu copiar i distribuir el Document en qualsevol suport, de manera comercial o no, sempre que aquesta Llicència, els avisos de copyright, i l'avs de llicència que diu que aquesta Llicència s'aplica al Document, es reproduïxen en totes les còpies, i que no hi afegiu altres condicions que les d'aquesta Llicència. No podeu utilitzar mitjans tècnics per impedir o controlar la lectura de successives còpies de les còpies que feu o distribueu. Podeu acceptar, per, una compensació a canvi de les còpies. Si distribueu un nombre prou gran de còpies tamb heu de seguir les condicions de la "Pàgina de títol".

Si publiqueu ms de 100 còpies impreses, o en un suport que habitualment tingui cobertes impreses, del Document, l'avs de llicència del Document requereix expletarita "Textos de portada", heu d'accompanyar les còpies de cobertes que portin, clarament ilegible, tots aquests Textos de portada: Textos de portada a la portada i Textos de contraportada a la contraportada. A totes dues cobertes s'ha d'indicar, clarament ilegible, que sou l'editor d'aquestes còpies. La portada ha d'indicar el títol complet, i totes les paraules han de destacar i veure's d'igual manera. Podeu afegir material addicional a les cobertes. Les còpies amb canvis noms a les cobertes, mentre conservin el títol del Document, i satisfacin
aquestes condicions, es poden considerar cpies literals en altres aspectes.</para>

<para>Si els textos requerits per a qualsevol de les cobertes sn massa densos per encabir-los de manera que quedin llegibles, cal que poseu els primers (tants com sigui raonablement possible) en la coberta real, i la resta en pgines adjacents.</para>

<para>Si publiqueu o distribuieu ms de 100 cpies <link linkend="fdl-transparent">Opaques</link> del <link linkend="fdl-document">Document</link>, heu d'incloure amb cadascuna d'elles una cpia <link linkend="fdl-transparent">Transparent</link> l'itima cpia Opaca d'aquesta edici. </para>

<para>Es prega, per no s'exigeix, que us poseu en contacte amb els autors del <link linkend="fdl-document">Document</link> abans de redistributeu un gran nombre de cpies; d'aquesta manera, els autors us podran facilitar una versi actualitzada del Document, si s que n'hi ha alguna. </para>

<sect1 id="fdl-section4" label="4">
<title>MODIFICACIONS</title>
<para>Podeu copiar i distribuir una <link linkend="fdl-modified">Versi modificada</link> d'acord amb les condicions de les seccions <link linkend="fdl-section2">2</link> i <link linkend="fdl-section3">3</link> anterior, sempre que distribueu la Versi modificada d'acord precisament amb aquesta Llicncia, amb la Versi modificada actuant com a Document, autoritzant d'aquesta manera la distribuci i modificaci de la Versi modificada a qualsevol que en posseeixi una cpia. A ms, a la Versi modificada hi heu de fer el segent: </para>

<itemizedlist mark="upper-alpha">
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<para>Utilitzeu a la <link linkend="fdl-title-page">Pgina de ttol</link> (i a les cobertes, si n'hi ha) un ttol diferent del <link linkend="fdl-document">Document</link> i del de les versions anteriors (que, si n'hi ha, han d'estar detallades a la secci Històric del Document). Podeu utilitzar el mateix ttol d'una versi anterior si l'editor original d'aquesta versi ho autoritza. </para>

</listitem>

<listitem>
<para>Relacioneu a la <link linkend="fdl-title-page">Pgina de ttol</link>, com a autors, una o ms persones o entitats responsables de la realitzaci de les modificacions de la <link linkend="fdl-modified">Versi modificada</link>, juntament amb almenys cinc dels autors principals del <link linkend="fdl-document">Document</link> (o tots els autors principals, si sn menys de cinc). </para>

</listitem>

<listitem>
<para>Indiqueu a la <link linkend="fdl-title-page">Pgina de ttol</link> el nom de l'editor de la <link linkend="fdl-modified">Versi modificada</link>, com a editor. </para>

</listitem>


<listitem>
  <para>Conserveu tots els avisos de copyright del <link linkend="fdl-document">Document</link>.</para>
</listitem>

<listitem>
  <para>Afegiu, al costat dels altres avisos de copyright, un avs de copyright adequat per a les vostres modificacions.</para>
</listitem>

<listitem>
  <para>Incloeu, immediatament després dels avisos de copyright, un avs de llicència donant autorització pública per utilitzar la <link linkend="fdl-modified">Versió modificada</link> d'acord amb els termes d'aquesta llicència, en el formulari que s'indica a l'addendum de ms avall.</para>
</listitem>

<listitem>
  <para>Conserveu, en aquest avs de llicència, la relació completa de <link linkend="fdl-invariant">Seccions invariables</link> i <link linkend="fdl-cover-texts">Textos de coberta</link> necessaris que s'indiquin a l'avs de llicència del <link linkend="fdl-document">Document</link>.</para>
</listitem>

<listitem>
  <para>Incloueu una còpia no alterada d'aquesta llicència.</para>
</listitem>

<listitem>
  <para>Conserveu la secció titulada <quote>Historial</quote> amb el seu títol, i afegiu-hi almenys el títol, any, nous autors i editor de la <link linkend="fdl-modified">Versió modificada</link>, com s'indica a la <link linkend="fdl-title-page">Pàgina de títol</link>. Si al <link linkend="fdl-document">Document</link> no hi cap secció titulada <quote>Historial</quote> creeu-ne una indicant-hi el títol, any, autors i editor del Document com s'indica a la seva Pàgina de títol, descrivant-hi tamb la Versió modificada com s'indica al punt anterior.</para>
</listitem>

<listitem>
  <para>Conserveu la ubicació de xarxa, si n'hi ha, indicada al <link linkend="fdl-document">Document</link> per a l'accés públic a una còpia <link linkend="fdl-transparent">Transparent</link> del Document, i també les ubicacions de xarxa indicades al Document on es poden trobar les versions anteriors en què s'ha basat, que es poden incloure a la secció <quote>Historial</quote>. Podeu ometre les ubicacions de xarxa d'obres publicades al menys quatre anys abans del propi Document, o si l'editor original de la versió a què fa referència us hi autoritzà.</para>
</listitem>

<listitem>
  <para>En qualsevol secció titulada <quote>Agraments</quote> o <quote>Dedicatries</quote>, conserveu-ne el títol, i conserveu-hi tot el text i to de cadascun dels agraments dels collaboradors i/o dedicatries que hi apareguin.</para>
</listitem>
Conserveu totes les <link linkend="fdl-invariant">Seccions invariables</link> del <link linkend="fdl-document">Document</link>, sense canviar-ne els textos ni els ttols. La numeració de seccions o sistemes equivalents no es consideren part dels ttols de secci.</para>
</listitem>

Suprimiu qualsevol secci titulada <quote>Aprovacions</quote>. Aquestes seccions no es poden incloure a la <link linkend="fdl-modified">Versi modificada</link>.
</listitem>

No reanomeneu cap secci existent com <quote>Aprovacions</quote>, ni tampoc de cap altra manera que pugui entrar en conflicte amb el ttol de qualsevol <link linkend="fdl-invariant">Secci invariable</link>.
</listitem>

Si la <link linkend="fdl-modified">Versi modificada</link> inclou noves seccions preliminars o apndixs que es considerin <link linkend="fdl-secondary">Seccions secundaries</link> i no contingui material copiat del Document, si ho voleu podeu anomenar totes o algunes d'elles com invariables. Per fer-ho, afegiu-ne els ttols a la relaci de <link linkend="fdl-invariant">Seccions invariables</link> de l'avs de llicencia de la Versi modificada. Aquests ttols han de ser diferents de tots els altres ttols de secci.

Podeu afegir una secci titulada <quote>Aprovacions</quote>, sempre que contingui solament aprovacions de la vostra <link linkend="fdl-modified">Versi modificada</link> fetes per diverses parts; per exemple, declaracions d'experts o afirmant que el text ha estat aprovat per una organitzaci com a definici autoritzada d'un estndard.

Al final de la relaci de <link linkend="fdl-cover-texts">Texts de portada</link> de la <link linkend="fdl-modified">Versi modificada</link> podeu afegir un text de fins a cinc paraules com a <link linkend="fdl-cover-texts">Text de portada</link>, i un altre de fins a 25 paraules com a <link linkend="fdl-cover-texts">Text de contraportada</link>. Cada entitat noms pot afegir (o arranjar) un Text de portada i un Text de contraportada. Si el <link linkend="fdl-document">Document</link> ja inclou un text de coberta per a la mateixa coberta, que haguere afegit anteriorment o que s'hagi afegit mitjanant un arranjament efectuat per la mateixa entitat en nom de la qual actuue, no en podeu afegir cap ms, per podeu reemplaar l'antiga amb l'autoritzaci expressa de l'editor anterior que la va afegir.

Per virtut d'aquesta Llicncia, el(s) autor(s) i editor(s) del <link linkend="fdl-document">Document</link> no us autoritza(en) a utilitzar-ne el(s) nom(s) amb finalitats publicitries, ni afirmen ni queda implcit la aprovaci de qualsevol <link linkend="fdl-modified">Versi modificada</link>

Podeu combinar el <link linkend="fdl-document">Document</link> amb altres documents publicats d'acord amb aquesta Llicncia, d'acord amb els termes exposats a la <link linkend="fdl-section4">secci 4</link>, ms amunt, per a les versions modificades, sempre que incloeu a l'obra resultant totes les Seccions invariables de tots els
documents originals, sense modificar, les relacioneu com a Seccions invariables de l'obra resultant en el seu avs de llicncia.

A l'obra resultant noms cal incloure una cpia d'aquesta Llicncia, i diverses Seccions invariables idèntiques es poden substituir per una sola cpia. Si hi ha diverses Seccions invariables amb el mateix nom, per amb continguts diferents, feu que el ttl dels obres derivades sigui el nom de l'autor o editor original de la secci (si es coneix) o un nombre nic. Feu la mateixa operació als ttls de la secci que sn a la relació de Seccions invariables a l'avs de llicncia de l'obra resultant.

A l'obra resultant podeu combinar totes les seccions titulades "Historial" dels diversos documents originals, donant com a resultat una secci titulada "Historial"; combineu de la mateixa manera totes les seccions titulades "Agraments" i totes les titulades "Dedicaties".

Heu de suprimir totes les seccions titulades "Aprovacions".

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Les licences de la plupart des logiciels sont conçues pour vous tenir toute liberté de les partager et de les modifier. L'opposé, les Licences Générales Publiques GNU ont pour but de vous garantir votre liberté de partager et de modifier un logiciel libre pour que le logiciel est bien libre pour tous les utilisateurs.

Quand nous parlons de logiciel libre, nous parlons de liberté, pas de prix. Nos Licences Générales Publiques sont conçues pour s'assurer que vous disposerez de la liberté de distribuer des copies du logiciel libre (et de facturer ce service si vous le désirez), que vous recevrez le code source ou pouvez l'obtenir chaque fois que vous le souhaitez, que vous pouvez modifier le logiciel et en utiliser chaque partie dans de nouveaux programmes libres, et que vous êtes informés que vous pouvez faire tout ceci.

Cette licence, la Licence Générale Publique Limite (Lesser General Public License), s'applique certains paquets logiciels désignés spécifiquement typiquement des bibliothèques de la Free Software Foundation et d'autres auteurs qui décident de l'utiliser. Vous pouvez l'utiliser aussi, mais nous vous suggérons de considérer d'abord si la présente licence ou la Licence Générale Publique GNU (GNU General Public License) ordinaire est la meilleure stratégie utilisée dans chaque cas particulier, suivant les explications données ci-dessous.

Quand nous parlons de logiciel libre, nous parlons de liberté de l'utiliser, pas de son prix. Nos Licences Générales Publiques sont conçues pour s'assurer que vous disposerez de la liberté de distribuer des copies du logiciel libre (et de facturer ce service si vous le désirez); que vous recevrez le code source ou pouvez l'obtenir chaque fois que vous le souhaitez; que vous pouvez modifier le logiciel et en utiliser la partie dans de nouveaux programmes libres; et que vous êtes informés que vous pouvez faire tout ceci.

Pour protéger vos droits, nous devons mettre des restrictions qui interdisent aux distributeurs de vous refuser ces droits ou de vous demander d'abandonner ces droits. Ces restrictions se traduisent par certaines responsabilités pour vous si vous distribuez des copies de la bibliothèque ou si vous la modifiez.

Par exemple, si vous distribuez des copies de la bibliothèque, que ce soit titre gratuit ou contre un paiement, vous devez donner aux concessionnaires tous les droits que nous vous avons concess. Si vous liez d'autres codes avec la bibliothèque, vous devez fournir des fichiers objets complets aux concessionnaires, de sorte qu'ils puissent les lier nouveau avec la bibliothèque après l'avoir modifiée et recompilée. Et vous devez leur montrer ces termes de sorte qu'ils puissent connaître leurs droits.

Nous protégeons vos droits par une méthode en deux étapes: (1) nous libellons la Bibliothèque avec une notice de propriété intellectuelle (copyright) et (2) nous vous offrons cette Licence, qui vous donne le droit de copier, distribuer ou modifier la bibliothèque.

Pour protéger chaque distributeur, nous voulons tablier de façon très claire qu'il n'y a aucune garantie pour la Bibliothèque libre. Aussi, si la Bibliothèque est modifiée par quelqu'un d'autre qui la redistribue ensuite, ses concessionnaires devraient savoir que ce qu'ils ont n'est pas la version originale, de sorte que la réputation de l'auteur original ne sera pas affectée cause de problèmes introduits par d'autres.

Enfin, les brevets logiciels constituent une menace constante contre l'existence même de tout logiciel libre.
Nous voulons que qu'une société ne peut pas effectivement restreindre les utilisateurs d'un programme libre en obtenant une licence restrictive d'un titulaire de brevet. Par conséquent, nous insistons pour que toute licence de brevet obtenue pour une version de la Bibliothèque doit être cohérente avec sa pleine liberté d'utilisation spécifiée dans la présente Licence.

La plupart des logiciels GNU, y compris certaines bibliothèques, sont couverts par la Licence Gnrale Publique GNU (GNU General Public License). La présente licence s'applique certaines bibliothèques désignées et est assez différente de la Licence Gnrale Publique. Nous utilisons la présente licence pour certaines bibliothèques afin de permettre de lier ces bibliothèques, sous certaines conditions, des programmes non libres.

Quand un programme est lié avec une bibliothèque, que ce soit statiquement ou avec une bibliothèque partage, la combinaison des deux constitue, en termes légaux, un travail combin, un driv de la bibliothèque originale. Il s'ensuit que la Licence Gnrale Publique ordinaire ne permet une telle liaison que si l'ensemble combinaison remplit ses critères et conditions de liberté. La Licence Gnrale Publique Limite permet de desserrer les critères permettant de lier d'autres codes avec la bibliothèque.

Nous appelons cette licence la Licence Gnrale Publique "Limite" (Lesser General Public License) car elle offre en fait une protection plus limite de la liberté de l'utilisateur que celle offerte par la Licence Gnrale Publique ordinaire. Elle offre aux autres développeurs de logiciels libres un avantage plus limité face aux programmes concurrents non libres. Ces désavantages sont la raison pour laquelle nous utilisons la Licence Gnrale Publique ordinaire pour de nombreuses bibliothèques. Cependant, la licence limite offre des avantages dans certaines circonstances spéciales.

Par exemple, en de rares occasions, il peut exister le besoin particulier d'encourager l'utilisation la plus large possible d'une certaine bibliothèque, afin qu'elle devienne un standard de fait. Pour arriver à cette fin, des programmes non libres doivent pouvoir être autorisés à utiliser la bibliothèque. Un cas plus fréquent est qu'une bibliothèque libre effectue les mêmes tâches que des bibliothèques non libres largement utilisées. Dans ce cas, il n'y a pas grand chose à gagner à limiter la bibliothèque libre aux seuls logiciels libres, aussi nous utilisons la Licence Gnrale Publique Limite.

Dans d'autres cas, l'autorisation d'utiliser une bibliothèque particulière dans des programmes non libres permet un plus grand nombre de personnes d'utiliser un corpus très large de logiciels libres. Par exemple, l'autorisation d'utiliser la bibliothèque C GNU dans des programmes non libres permet plus de personnes d'utiliser le système d'exploitation GNU tout entier, de même que sa variante, le système d'exploitation GNU/Linux.

Bien que la Licence Gnrale Publique Limite semble limiter la protection de la liberté de l'utilisateur, elle assure que l'utilisateur d'un programme lié avec la bibliothèque dispose de la liberté et du choix d'exécuter ce programme en utilisant une version modifiée de la bibliothèque.

Les termes et conditions précis concernant la copie, la distribution et la modification suivent. Prenez une attention tout particulière aux différences entre un travail bas sur la Bibliothèque et un travail utilisant la Bibliothèque. Le premier contient du code driv de la bibliothèque, tandis que le second doit être combiné avec la bibliothèque afin de pouvoir être exécuté.
Cet Accord de Licence s'applique à toute bibliothèque logicielle ou tout programme contenant une notice placée par le titulaire de la réservation de droits (copyright) ou toute autre partie autorisée indiquant que ce logiciel peut être distribué suivant les termes de cette Licence Générale Publique Limite (appelée ci-dessous "cette Licence"). Chacun des concessionnaires de cette Licence sera désigné en tant que "Vous".

Une "bibliothèque" signifie une collection de fonctions logicielles ou de données préparées de façon à être liée facilement des programmes applicatifs (utilisant tout ou partie de ces fonctions et données) afin de former des exécutables.

La "Bibliothèque", ci-dessous, se réfère toute telle bibliothèque logicielle ou travail qui a été distribué suivant ces termes. Un "travail bas sur la Bibliothèque" signifie soit la Bibliothèque ou tout travail dérivé pouvant être soumis aux lois de propriété intellectuelle : c'est-dire un travail contenant la Bibliothèque ou une portion de celle-ci, soit en copie conforme, soit avec des modifications ou traduit directement dans une autre langue. (Dans la suite ci-dessous, les traductions sont incluses sans limitation dans le terme modification.)

Le "code source" d'un travail signifie la forme préférée du travail permettant d'y effectuer des modifications. Pour une bibliothèque, le code source complet signifie tout le code source de tous les modules qu'elle contient, plus tous les fichiers de définition d'interface associés, plus les scripts utilisés pour contrôler la compilation et l'installation de la bibliothèque.

Les activités autres que la copie, la distribution et la modification ne sont pas couvertes par cette Licence ; elles sont en dehors de son tendue. L'action d'exécuter un programme utilisant la Bibliothèque n'est pas restreinte et les résultats produits par un tel programme ne sont couverts que si leur contenu constitue un travail bas sur la Bibliothèque (indépendamment de l'utilisation de la Bibliothèque dans un outil utilis pour l'écrire). Que ce soit ou non le cas dépend de ce que réalise la Bibliothèque, et de ce que fait le programme utilisant la Bibliothèque.

Vous pouvez copier et distribuer des copies conformes du code source complet de la Bibliothèque que vous recevez, sur tout support, pourvu que vous publiez scrupuleusement et de façon appropriée sur chaque copie la notice de réservation de droit (copyright) et un dni de garantie ; gardez intactes toutes les notices qui se réfèrent cette Licence et l'absence de toute garantie ; et distribuez une copie de cette Licence en même temps que la Bibliothèque.

Vous pouvez demander un paiement pour l'action physique de transfert d'une copie et vous pouvez volontiers offrir une protection de garantie en change d'un paiement.

Vous pouvez modifier votre ou vos copie(s) de la Bibliothèque ou toute portion de celle-ci et ainsi créer un travail bas sur la Bibliothèque et copier ou distribuer de telles modifications suivant les termes de la Licence Générale Publique Limite.
Section 1

Le travail modifié doit être lui-même une bibliothèque logicielle.

Vous devez assurer que les fichiers modifiés comportent des notices videntes tablissant que vous avez changé les fichiers et la date de ces changements.

Vous devez assurer que l'ensemble du travail pourra être licencié sans frais toute tierce partie suivant les termes de cette Licence.

Si une facilit dans le bibliothèque modifie référence une fonction ou une table de données fournir par une application utilisant la facilit, autre qu'un argument pass quand la facilit est invoquée, alors vous devez faire un effort en toute bonne foi pour vous assurer que, dans l'éventualité où une application ne fournirait pas une telle fonction ou table, la facilit restera opérationnelle et effectuera une partie quelconque de sa finalité de façon sense.

(Par exemple, une fonction dans une bibliothèque pour calculer des racines carrées a une finalité qui est entièrement bien définie indépendamment de l'application. Par conséquent, la Sous-section 2d requiert que toute fonction fournie par l'application ou table utilise par cette fonction doit être optionnelle si l'application n'en fournit pas: la fonction racine carrée doit encore pouvoir calculer des racines carrées.)

Ces obligations s'appliquent au travail modifié dans son entier. Si des sections identifiables de ce travail ne sont pas drives dans la Bibliothèque, et peuvent être raisonnablement considérés comme des travaux indépendants et spars par eux-mêmes, alors cette Licence et ses termes, ne s'appliquent pas ces sections, dès lors que vous les distribuez en tant que travaux spars. Mais quand vous distribuez les mêmes sections en tant que composants d'un ensemble constituant un travail bas sur la Bibliothèque, la distribution de l'ensemble doit se faire suivant les termes de cette Licence, dont les autorisations accordées d'autres obtenteurs de licences s'étendent à la totalité de l'ensemble et donc pour chacun des composants indépendamment de qui les a écrit.

Aussi, ce n'est pas l'intention de cette section de clamer des droits ou de contester vos droits sur des travaux créés entièrement par vous; l'intention est plutôt d'exercer le droit de contrôler la distribution des travaux drives ou collectifs bas sur la Bibliothèque.

De plus, la simple agrégation avec la Bibliothèque (ou avec un travail bas sur la Bibliothèque) d'un autre travail non bas sur la Bibliothèque sur un même volume de stockage ou un support de distribution n'amène pas cet autre travail dans le champ d'application de cette Licence.

Vous pouvez choisir d'appliquer les termes de la Licence Générale Publique GNU ordinaire au lieu de deux
de cette Licence une copie donnée de cette Bibliothque. Pour le faire, vous devez modifier les notices qui se référent cette Licence, de sorte qu'ils se référent plutt la Licence Gnrale Publique GNU version 2, au lieu de cette Licence. (Si une version officielle plus récente que la version 2 de la Licence Gnrale Publique GNU ordinaire a t publiée, alors vous pouvez spécifier plutt cette version si vous le souhaitez.) N'effectuez aucun autre changement ces notices.</para>

<para>Ds que ce changement a t fait dans une copie donnée, il est irréversible pour cette copie et donc la Licence Gnrale Publique GNU ordinaire s'appliquera toutes les copies suivantes et tous travaux drivs effectus partir de cette copie.</para>

<para>Cette option est utile quand vous souhaitez copier une partie du code de la Bibliothque en un programme qui n'est pas une bibliothque.</para>

<sect2 id="sect4" label="4">
<title>Section 4</title>

<para>Vous pouvez copier et distribuer la Bibliothque (ou une portion ou un driv de celle-ci, suivant les termes de la Section 2</para>

<para>Si la distribution du code objet se fait en offrant l'accès la copie depuis un emplacement désign, alors une offre d'accès équivalente pour copier le code source depuis le mme emplacement satisfait l'obligation de distribuer le code source, mme si des parties tierces ne sont pas obliges de copier simultanément le source en mme temps que le code objet.</para>

<sect2 id="sect5" label="5">
<title>Section 5</title>

<para>Un programme qui ne contient aucun driv d'une quelconque portion de la Bibliothque, mais est conu pour travailler avec la Bibliothque en tant compil ou li avec cette Bibliothque, est appel un travail utilisant la Bibliothque. Un tel travail, pris isolmen, n'est pas un travail driv de la Bibliothque et tombe par consquent hors du champ d'application de cette Licence.</para>

<para>Cependant, la liaison avec la Bibliothque d'un travail utilisant la Bibliothque cre un excutable qui est un driv de la Bibliothque (car il contient des portions de la Bibliothque), plutt qu'un travail utilisant la Bibliothque. L'excutable est par consquent couvert par cette Licence. La Section 6 tablit les termes de distribution de tels excutables.</para>

<para>Quand un travail utilisant la Bibliothque utilise des lments d'un fichier d'entte faisant partie de la Bibliothque, le code objet de ce travail peut tre un travail driv de la Bibliothque mme si son code source ne l'est pas. Cette définition prendra son sens tout particuliment si le travail peut tre li sans la Bibliothque ou si le travail est lui-mme une bibliothque. Les dilimitations de ce cas ne sont pas définies de faon précise par la loi.</para>
Si un tel fichier objet utilise uniquement des paramètres numériques, des schémas et accesseurs de structures de données et de petites macros et petites fonctions en ligne (dix lignes de source ou moins en longueur), alors l'utilisation du fichier objet est non restreinte, indépendamment du fait que cela constitue également un travail driv. (Les règles de la Section 6 s'appliqueront tout de même aux exécutables contenant ce code objet plus des portions de la Bibliothèque.)

Autrement, si le travail est un driv de la Bibliothèque, vous pouvez distribuer le code objet pour le travail suivant les termes de la Section 6. Les règles de la Section 6 s'appliquent alors tout exécutable contenant ce travail, que ce dernier soit ou ne soit pas lié directement avec la Bibliothèque elle-même.

Par exception aux Sections ci-dessus, vous pouvez aussi combiner ou lier un travail utilisant la Bibliothèque avec la Bibliothèque pour produire un travail contenant des portions de la Bibliothèque et distribuer ce travail suivant les termes de votre choix, pourvu que ces termes permettent la modification du travail pour les besoins propres du client et l'ingénierie inverse permettant le déboguage de telles modifications.

Vous devez donner une notice explicite et vvide avec chaque copie du travail montrant que la Bibliothèque est utilisée dans celui-ci et que la Bibliothèque est couverte par cette Licence. Vous devez fournir une copie de cette Licence. Si le travail lors de son exécution affiche des notices de droits et propriétés intellectuelles, vous devez inclure la notice pour la Bibliothèque parmi celles-ci, ainsi qu'une référence adresse l'utilisateur vers une copie de cette Licence. Vous devez aussi effectuer l'une des tâches suivantes: Accompagner le travail avec le code source complet correspondant lisible par une machine pour la Bibliothèque incluant tout changement quelconque qui ont été effectués dans le travail (qui doit être distribué suivant les Sections 1 et 2 ci-dessus); et, si le travail est un exécutable lié à la Bibliothèque, fournir la totalité du travail utilisant la Bibliothèque lisible par une machine, sous forme de code objet ou source, de sorte que l'utilisateur puisse modifier la Bibliothèque et la relier pour produire un exécutable modifié contenant la Bibliothèque modifiée. (Il est admis que l'utilisateur qui change le contenu de fichiers de définition dans la Bibliothèque ne sera pas nécessairement capable de recompiler l'application pour utiliser les définitions modifiées.)

Utiliser un mécanisme approprié de bibliothèque partage pour lier avec la Bibliothèque. Un mécanisme approprié est celui qui (1) utilise l'exécution une copie de la Bibliothèque déjà présente sur le système de l'ordinateur de l'utilisateur, plutôt que de copier les fonctions de bibliothèque dans l'exécutable et (2) fonctionnera correctement avec une version modifiée de la Bibliothèque, si l'utilisateur en installe une, tant que la version modifiée est compatible au niveau de l'interface avec la version avec laquelle le travail a été réalisé.

Accompagner le travail avec une offre écrite, valide pour au moins trois ans, de donner au même utilisateur les éléments spécifiés dans la Sous-section 6a, ci-dessus, contre un paiement ne dépassant pas le coût requis pour effectuer cette distribution.
Si la distribution du travail est faite en offrant l'accès une copie depuis un emplacement désign, offrir un accès équivalent depuis le même emplacement pour copier les éléments spécifiés ci-dessus.

Vérifier que l'utilisateur a déjà reçu une copie de ces éléments ou que vous en avez déjà envoyé une copie à cet utilisateur.

Pour un exécutable, la forme requise du travail utilisant la Bibliothèque doit inclure toutes les données et programmes utilisateurs nécessaires permettant de reproduire l'exécutable partir de ceux-ci. Cependant, par exception, les matériels distribuer n'ont pas besoin d'inclure tout ce qui est normalement distribué (sous forme source ou binaire) avec les composants majeurs (compilateur, noyau et autres composants similaires) du système d'exploitation sur lequel l'exécutable fonctionne, moins que ce composant lui-même accompagne l'exécutable.

Il peut arriver que ces conditions nécessaires contredisent les restrictions de licence d'autres bibliothèques propriétaires qui n'accompagnent pas normalement le système d'exploitation. Une telle contradiction signifie que vous ne pouvez pas les utiliser en même temps que la Bibliothèque dans un exécutable que vous distribuez.

Vous pouvez placer les facilités de bibliothèque qui sont un travail bas sur la Bibliothèque côte à côte dans une unique bibliothèque avec d'autres facilités de bibliothèque non couvertes par cette Licence et distribuer une telle bibliothèque combinée, pourvu que la distribution spare du travail bas sur la Bibliothèque et des autres facilités de bibliothèque soient autrement permises et pourvu que vous effectuez chacune des deux tâches suivantes:

1. Accompagner la bibliothèque combinée avec une copie du même travail bas sur la Bibliothèque, non combiné avec d'autres facilités de bibliothèque. Cela doit être distribué suivant les termes des Sections ci-dessus.
2. Donner une notice vidente avec la bibliothèque combinée du fait qu'une partie de celle-ci est un travail bas sur la Bibliothèque et expliquant où trouver la forme non combinée accompagnante du même travail.

Vous ne pouvez pas copier, modifier, accorder des sous-licences, lier ou distribuer la Bibliothèque autrement que d'une façon décrite expressément par cette Licence. Autrement, toute tentative de copier, modifier, accorder des sous-licences, lier ou distribuer la Bibliothèque est invalide et mettra fin automatiquement vos droits.
accords sous cette Licence. Toutefois, toute autre tierce partie qui a reçu des copies ou des droits, par vous suivant les termes de cette Licence n'aura pas sa licence termine, aussi longtemps que cette partie tierce continue de s'y conformer pleinement.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Section 9</title>

<para>Vous n'êtes pas oblig d'accepter cette Licence, puisque vous ne l'avez pas signé. Cependant, rien d'autre ne vous accorde l'autorisation de modifier ou distribuer la Bibliothèque ou ses travaux drivés. Ces actions sont également prohibées si vous n'acceptez pas cette Licence. Par conséquent, en modifiant ou distribuant la Bibliothèque (ou tout travail bas sur la Bibliothèque), vous indiquez votre acceptation de cette Licence pour le faire, ainsi que tous ses termes et conditions pour la copie, la distribution ou la modification de la Bibliothèque ou des travaux bas sur elle.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Section 10</title>

<para>Chaque fois que vous redistribuez la Bibliothèque (ou tout travail bas sur la Bibliothèque), le destinataire reçoit automatiquement une licence par l'entrepôt d'origine de la licence, permettant de copier, distribuer, lier ou modifier la Bibliothèque en accord avec les présents termes et conditions. Vous ne pouvez pas imposer davantage de restrictions sur l'exercice par le concessionnaire de cette licence des droits accordés dans la présente licence. Vous êtes dégagé de la responsabilité de contrôler la conformité d'usage de cette Licence par des parties tierces.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Section 11</title>

<para>Si, par suite d'une décision judiciaire ou d'une allégation d'infraction d'un brevet ou pour toute autre raison (non limitée aux problèmes de brevets), des conditions vous sont imposées (que ce soit par une ordonnance de justice, une transaction amiable ou contractuelle ou toute autre raison) qui contredisent les conditions de cette Licence, elles ne vous dégagent pas des obligations de cette Licence. Si vous ne pouvez pas effectuer une distribution de façon satisfaisant simultanément vos obligations sous cette Licence et toute autre obligation pertinente, alors vous ne pouvez en aucun cas distribuer la Bibliothèque. Par exemple, si une licence de brevet ne permettait pas une redistribution de la Bibliothèque sans paiement de royalties par tous ceux qui en reçoivent des copies directement ou indirectement travers vous, alors la seule façon pour vous de satisfaire la fois les conditions imposées et cette Licence sera de vous abstenir complètement de toute distribution de la Bibliothèque.</para>

<para>Si toute portion de cette section est juge invalide ou inapplicable de plein droit dans une quelconque circonstance particulière, le maximum possible de cette section est supposé s'appliquer et la section dans son tout est supposé toujours applicable dans toutes les autres circonstances.</para>

<para>Le but de cette section n'est pas de vous obliger enfreindre un quelconque brevet ou d'autres prétentions des droits de propriété ou de contester la validité de telles prétentions; cette section a pour seul but de protéger l'intérêt du système de distribution des logiciels libres tel qu'il fonctionne au moyen de pratiques de licences publiques. De nombreuses personnes ont fait des contributions généreuses à la gamme très large de logiciels distribués via ce système, en comptant sur l'application rigoureuse et cohérente de ce système; il appartient seulement à l'auteur ou au donateur de
Ces sections a pour but d'établir de façon très claire ce que l'on croit être une conséquence nécessaire du reste de cette Licence.

Si la distribution ou l'usage de la Bibliothèque est restreinte dans certains pays, que ce soit par des brevets ou des interfaces soumises au droit de propriété intellectuelle, le titulaire original de ce droit de propriété qui place la Bibliothèque sous la couverture de cette Licence peut ajouter une limitation géographique explicite de distribution excluant ces pays, afin que la distribution soit permise seulement dans ou parmi les pays non exclus. Dans un tel cas, cette Licence incorpore la limitation comme si elle tait rpute crite dans le corps de cette Licence.

La Free Software Foundation peut publier des versions rvides ou nouvelles de la Licence Générale Publique Limite de temps en temps. De telles nouvelles versions resteront similaires l'esprit de la présente version, mais peut différer dans son détail afin de traiter de nouveaux problèmes ou préoccupations.

Chaque version reçoit un numéro de version distinctif. Si la Bibliothèque spécifie un numéro de version de cette Licence qui s'applique celle-ci et toute autre version future, vous avez l'option de suivre les termes et conditions de cette version ou de toute version ultérieure publiées par la Free Software Foundation. Si la Bibliothèque ne spécifie pas un numéro de version de licence, vous pouvez choisir n'importe quelle version publiée par la Free Software Foundation.

Si vous souhaitez incorporer des parties de la Bibliothèque dans tout autre programme libre dont les conditions de distribution sont incompatibles avec ces termes, crivez l'auteur ou demandez son autorisation. Pour les logiciels dont les droits de propriété sont détenus par la Free Software Foundation, crivez la Free Software Foundation; nous faisons parfois des exceptions pour celui-ci. Notre décision sera guidée par les deux finalités de préserver le statut libre de tous les drvis de nos logiciels libres et de promouvoir le partage et la réutilisation des logiciels en général.

ABSENCE DE GARANTIE

Puisque cette Bibliothèque fait l'objet d'une licence qui vous est accordée sans frais, il n'y a aucune garantie pour la Bibliothèque, dans les limites autorisées...
PAR LA LOI APPLICABLE. MOINS QUE CELA NE SOIT TABLI DIFFREMENT PAR CRIT, LES TITULAIRES DE DROITS DE PROPRIT OU LES AUTRES PARTIES FOURNISSENT LA BIBLIOTHEQUE TELLEQUEL SANS GARANTIE D'AUCUNE SORTE, QUELLE SOIT EXPRIME OU IMPLICITE, CECI INCLUANT, MAIS SANS LIMITATION, LES GARANTIES IMPLICITES DE MARCHANDABILIT ET D'ADQUATION UN OBJECTIF PARTICULIER. VOUS ASSUMEZ SEUL LE RISQUE TOUT ENTEGR CONCERNANT LA QUALIT ET LA PERFORMANCE DE LA BIBLIOTHEQUE. DANS L'EVENTUALIT O LA BIBLIOTHEQUE S'AVRERAIT D'ECHEUEUSE, VOUS ASSUMEREZ VOUS-MME LE COT DE TOUS LES SERVICES, RPARATIONS OU CORRECTIONS NCESSAIRES.

<sect2 id="sect16" label="16">
<title>Section 16</title>
<para>EN AUCUNE AUTRE CIRCONSTANCE QUE CELLES REQUISES PAR LA LOI APPLICABLE OU ACCORDES PAR CRIT, UN TITULAIRE DE DROIT DE PROPRIT, OU TOUT AUTRE PARIE QUI PEUT MODIFIER OU REDISTRIBUER LA BIBLIOTHEQUE COMME PERMIS CI-DESSUS, NE POURRA TRE TENU POUR RESPONSABLE ENVERS VOUS POUR LES DOMMAGES, INCLUANT TOUS DOMMAGE GNRAL, SpCIAL, ACCIDENTEL OU INUIT SURVENANT PAR SUITE DE L'UTILISATION OU DE L'INCAPACIT D'UTILISER LA BIBLIOTHEQUE (CECI INCLUANT MAIS SANS LIMITATION LA PERTE DE DONNES OU L'INEXACTITUDE DES DONNES RETOURNES OU LES PERTES SUBIES PAR VOUS OU DES PARTIES TIERCES OU L'INCAPACIT DE LA BIBLIOTHEQUE FONCTIONNER AVEC TOUT AUTRE LOGICIEL), MME SI UN TEL TITULAIRE OU TOUTE AUTRE PARTIE A T AVIS DE LA POSSIBILIT DE TELS DOMMAGES.

</sect2>
</sect1>
</article>

Software libreaz hitz egiten dugunean, askatasunari buruz ari gara, eta ez prezioari buruz. Gure Lizentzia Publiko Orokoren xedea da software librearen kopiarik banatzeko (eta, nahi izanez gero, zerbitzu horrenategik kobratzeko) askatasuna duzula ziurtatzea, iturburu-kodea jasoko duzu edo, nahi izanez gero, hartzeko aukera duzu bermatzea, softwarea aldatzeko edo software zatiak beste programa libre berri batzuetan erabiltzeko.
eskubidea duzula segurtatzea eta gauza horiek egin dizakezula jakinaraztea.</para>

<para>Zure eskubideak babesteko, norbaitek zuri eskubide hauek ukatzea edo eskubide horiei uko eginaraztea debekatzeko eta eragozteko mugak jarri behar ditugu. Mugaketa horien ondorioz, softwarea aldatu edo kopiak banatzen badituzu, zenbait erantzukizun hartuko dituzu zure gain.</para>

<para>Adibidez, horrelako programa baten kopiak banatzen badituzu, bai doan eta bai kuota baten truke, zuk dituzun eskubide guztiak eman behar dizkiezu hartzailiei. Beraiek ere iturburu-kodea jasotzen dutela edo jaso dezaketela ziurtatu behar duzu. Eta baldintza hauek erakutsi behar dizkiezu, zer eskubide dituzten jakin dezaten.</para>

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<orderedlist numeration="arabic">
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<li>offer you this license which gives you legal permission to copy, distribute and/or modify the software.</li>
</orderedlist>

<para>Horrez gainera, egile oro eta geure burua babestearren, ziurtatu nahi dugu jende guztiak ulertzen duela software libre honek ez duela inolako bermerik. Norbaitek softwarea aldatu eta beste bati pasatzen badio, hartzailiek, berak jaso duena ez dela jatorrizkoa jakitea nahi dugu, besten eraginez sortzen diren arazoek kalterik egin ez diezaioten jatorrizkoaren egilearen ospe edo izen onari.</para>

<para>Azkenik, aipatu beharrekoa da software-patenteek etengabe mehatxu egiten diotela edozein programa libreri. Programa libre baten birbanatzaileek patente-lizentziak banaka eskuratu eta, ondorioz, programaren jabe egitearen arriskua ekidin nahi dugu. Hori gerta ez dadin, argi utzi dugu patente guztiek edonork askatasunez erabiltzeko lizentzia izan behar dutela, edo, bestela, inongo lizentziarik ez.</para>

<para>Softwarea kopiatzeko, banatzeko eta aldatzeko baldintza zehatzak dituzu jarraian:</para>

</sect1>

<sect1 id="terms" label="none">
<title>KOPIATZEKO, BANATZEKO ETA ALDATZEKO BALDINTZAK</title>

<sect2 id="sect0" label="0">
<title>0 atala</title>

</sect2>

</sect1>

Lizentzia honi dagozkion jarduera bakarrak kopiatzea, banatzea eta aldatzea dira; bestelako jarduerak lizentzia honen esparrutik kantxo daude. Programa exekutatzea ez dago mugatuta, eta Programaren emaitza estaltzen da edukia Programan oinarritutako lana bada soilik (Programa exekutatuz egina izan edo ez). Egia den edo ez, programak egiten duenaren arabera da.</para>

Programaren iturburu-kodea jaso bezala literalki kopiatu eta banatu dezakezu, edozein euskarritan, baldin eta behar bezala eta ikusteko moduan jartzen badiozu kopia bakoitzari egile-eskubideen oharra eta bermerik ez duela dioen oharra; Lizentziari eta bermerik ezarri dagozkion ohar guztiek oso-osorik mantentzen baditu; eta Programaren hartzaile guztiei Lizentziaren kopia ematea badiezu Programarekin batera.</para>

Kuota kobra dezakezu kopia ematearekin ekintza fisikoagatik, eta zure esku dago garantia-babesa ematea kuota baten truke.</para>

You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

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If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

Exception:
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.

Honela, beraz, atal honen xedea ez da zuk osoki idatzitako lanaren eskubeak eskatu edo exijitzea, baizik eta Programan oinarritutako lan eratorrien edo talde-lanen banaketa kontrolatzeko eskubidea baliatzea.

Horrez gainera, Programari (edo programan oinarritutako lan bati) Programan oinarritu gabeko beste lan bat gehitzen bazaio biltegi-bolumen batean edo banaketarako euskarri batean, gehitze hutsarengatik beste lan hori ez da sartuko Lizentzia honen esparruan.
Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
deuseza izango da, eta Lizentzia honen baitan dauzkazun eskubideak automatikoki kenduko zaizkizun. Dena den, Lizentzia honen pean zuregangik kopiak edo eskubideak jaso dituztenei ez zaizkie lizentziak kenduko, baldintza guztiak betetzen badituze.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>5. atala</title>

</sect2>

<sect2 id="sect6" label="6">
<title>6. atala</title>

<para>Programa (edo Programan oinarritutako edoizein lan) birbanatzen duzun bakoitzean, hartzailek automatikoki jasoten du jatorrizko lizentzia-emailearengandik Programa kopiatu, banatu edo aldatzeko lizentzia, baldintza hauetan. Hemen ematen diren eskubideei dagokienez, ezin diozu bestelako murriztapenik ezarri hartzaileari. Ez da zure ardura hirugarrenei Lizentzia hau betearaztea.</para>
</sect2>

<sect2 id="sect7" label="7">
<title>7. atala</title>

<para>Epaitegi-ebazpen baten ondorioz edo patente-eskubidea urratu dela dioen salaketa baten ondorioz, edo beste edozein arrazoirengatik (ez bakarrik patente-gaiei dagokiena) Lizentzia honen baldintzekin bat ez datozen baldintzak ezartzen bazaizkizun, ez zara Lizentzia honen baldintzak bete beharretik libratuko. Ezinezkoak bazaizkun Lizentzia honetako baldintzak eta dagozkion beste bestehar batzuk betez banatzea, ezingo duzu Programa inola ere banatu. Adibidez, patente-lizentzia batek ez balu onartuko zirela bitartez zuzenean edo zeharka kopiak jasotzen dituztenek Programa egile-eskubiderik gabe birbanatzea, Programa ez banatzea litezkeke bai patentea, bai Lizentzia hau betetzeko modu bakarra.</para>

<para>Atal honen zatiren bat baliogabea edo bete ezina bada egoera bereziren batean, atalaren gainerrako guztia aplikatu beharko da, eta atala bere osotasunen aplikatu beharko da beste egoeretan.</para>

<para>Atal honen xedeak ez da patenteak edo jabetza-eskubideen eskakizunak ez betetzerako bultzatzea edo halako eskakizunen baliozotasuna uzkatza; atal honen xede bakarra da software librearen banaketa-sistemaren zuzentasuna babestea, lizentzia publikoen bidez bideratzen baita. Sistema horren baitan banatutako software ugariari ekip oparoa egin dio jende askok, sistema modu iraunkorrean aplikatuko delakoan. Egile/emailearen esku dago erabakitzea beste sistemaren baten bidez banatu nahi duen edo ez, eta lizentziadun batek ezin du halako erabakirik inposatu.</para>

<para>Atal honek argi eta garbi utzi nahi du zer den Lizentziaren gainerrako zatiaren ondorioztat jotzen dena.</para>
</sect2>
8. atala

Zenbait herrialdetan Programaren banaketa edo/eta erabilera mugatzen baldin badute patenteen edo copyright-dun interfazeen bidez, jatorrizko copyrighta duenak geografikoki mugatu ahal izango du banaketa herrialde horiek kanpoan uzteko, era horretan baztertu gabeko herrialdeetan edo herrialdeen artean soilik egin dadin banaketa. Halako kasuetan, mugaketa hori Lizentzia honetan sartuta geratuko da, Lizentziaren gorputzak edatzita egongo balit bezala. <para>

9. atala

Free Software Foundation-ek noizean behin Lizentzia Publiko Orokorraren bertsio berrikusiek edo berriak argitara ditzake. Bertsio berri horiek egunoaren antzekoak izango dira espirituz, baina, arazo edo kezka berriei aurre egin beharko dietenez, litekeena da zehatz-mehatz bat ez etortzea. <para>


10. atala


BERMERIK EZA

LEGE APLIKAGARRIAK EDO IDATZIZ JASOTAKO BORONDATEZKO AKORDIO BATEK HALA ESKATZEN DUELAKO EZ BADA, EZIN IZANGO DIOZU JABETZA INTELEKTUALAREN ESKUBIDEDUNARI EDO GOIAN BAIMENTZEN DEN BEZALA PROGRAMA BIRBANATU EDO ALDA DEZAKEEN BESTE ALDERDI BATI ERANTZUKIZUNIK ESKATU EZ KALTEENGATIK, EZ PROGRAMAREN ERABILOREN EDO ERABILTZEKO EZGAITASUNAREN ONDORIOZ SOR DAITEZEKEN KALTE OROKOR, BEREZI, GEHIGARRI EDO ONDORIOZKOENGATIK (BESTEAK BESTE, DATUAK GALTZEA EDO HONDATZEA, EDO ZUK EDO BESTE NORBAITEK JASANDAKO GALERAK, EDO BESTE PROGRAMA KIN LAN EGITEKO PROGRAMAREN HUTS EGITEREN BAT), NAHIZ ETA ESKUBIDEDUNARI EDO BESTE NORBAIT HORRI KALTEAK IZAN LITEZKEELA AURRETIK ABISATU IZAN.
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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Ako su vam, kao posledica sudske presude ili pod izgovorom krenja patenta ili zbog bilo kog drugog razloga (ne ograniavajui se na pitanja patenata), nametnuti uslovi (bilo sudskim nalogom, dogovorom ili drugaije) koji su suprotni uslovima ove licence, isti vasi ne izuzimaju iz uslova ove licence. Ako ne moete da raspodeljujete i da istovremeno zadovoljite vae obaveze pod ovom licencom i pod bilo kojim drugom znaajnom obavezom, onda je
posledica svega toga da ne moete program da raspodeljivite uopte. Na primer, ako licenca patenta ne dozvoljava besplatnu raspodelu Programa od strane svih onih koji direktno ili indirektno prime primerak preko vas, onda jedini nacin da zadovoljite i taj uslov i ovu licencu jeste taj da se u potpunosti odreknete raspodele Programa.</para>

<para>Ako se bilo koji deo ovog odeljka smatra nevaesim ili neprimenljivim pod bilo kojom odreenom okolnou, primjenjuje se ostatak odeljka a odeljak u celini se primjenjuje u ostalim okolnostima.</para>

<para>Nije svrha ovog odeljka da vas navede da prekrite bilo koja potraivanja patenta ili drugih prava na svojinu niti da ospori punovanost takvih potraivanja; jedina svrha ovog odeljka je da zatiti celovitost sistema raspodele slobodnog softvera, koja se sprovodi primenom javnih licenci. Mnogi ljudi su dali velikodune doprinosne erekom spektru softvera raspodeljenog ovim sistemom oslanjaju se na doslednu primenu tog sistema; na autoru/donatoru je da odlui da li je on ili ona spreman/spremna da raspodeljuje softver nekim drugim sistemom a licenca ne moe da nametne taj izbor.</para>

<para>Ovaj odeljak je namenjen da detaljno razjasni ono to se veruje da je posledica ostatka ove licence.</para>

<sect2 id="sect8" label="8">
<title>Odeljak 8</title>

<para>Ako je raspodela i/ili korijenje Programa ogranieno u odreenim zemljama, bilo patentima ili autorskim pravima, prvobitni nosilac autorskih prava koji stavi Program pod ovu licencu moe da doda izriito geografsko ogranijenje raspodele iskljuujui te zemlje, tako da je raspodela dozvoljena samo u zemlji ili zemljama koje nisu na taj naiz iskljuene. U tom sluaju, ova licenca ukljuuje ogranijenje kao da je njen sastavni deo.</para>

</sect2>

<sect2 id="sect9" label="9">
<title>Odeljak 9</title>

<para>Zadubina slobodnog softvera moe s vremena na vreme da objavi preraena i/ili nova izdanja Opte javne licence. Takve prerade e po duhu biti sline sadanjem izdanju, ali se mogu razlikovati u detaljima u cilju ukazivanja na nove probleme ili pitanja.</para>

<para>Svakom izdanju se dodaje broj za razlikovanje izdanja. Ako Program odreuje broj izdanja Licence koja mu se primjenjuje i bilo koje novije izdanje, imate mogunost da sledite odredbe i uslove bilo tog izdanja ili bilo kog novijeg izdanja koje objavi Zadubina slobodnog softvera. Ako program ne odreuje broj izdanja te Licence, moete da izaberete bilo koje izdanje koje je do sada objavila Zadubina slobodnog softvera.</para>

</sect2>

<sect2 id="sect10" label="10">
<title>Odeljak 10</title>

<para>Ako elite da pripojite delove Programa drugim slobodnim programima iji su uslovi raspodele drugaju, piite autoru i od njega zatraite odobrenje. Za softver za koji autorska prava zadrava Zadubina slobodnog softvera, piite Zadubini slobodnog softvera; za ovo mi ponekad napravimo izuzetke. Naa odluka e biti motivisana u cilju ouvanja slobodnog statusa svih proisteklih radova naeg slobodnog softvera i u cilju promovisanja deljenja i ponovne upotrebe softvera uopte.</para>

</sect2>
NEDOSTATAK GARANCIJE

ZATO TO JE PROGRAM LICENCIRAN BEZ OBAVEZA, NE POSTOJI GARANCIJA ZA PROGRAM, DO GRANICE DOPUTENE MERODAVNIH ZAKONOM. OSI4 AKO NIJE DRUGAJSJE NAVEĐENO, NOSIOCI AUTORSKIH PRAVA I/ILI DRUGA LICA OBEZBEĐUJU PROGRAM KAKAV JESTE BEZ GARANCIJE BILO KAKVE VRSTE, BILO IZRAJENE IILI PRIMENJENE, UKLJUČUJUJU, ALI NE OGRANIČAVAJU SE NA, PRIMENJENE GARANCIJE TRINE VREDNOSTI I PRILAGODJENSTI ODREĐEJ NAMENI. CELOKUPAN RIZIK NA KVALITET I PERFORMANSE PROGRAMA JE VA. AKO PROGRAM POKAE NEDOSTATKE, VI PREUZIMATE TROKOVE SVIH POTREBNIH SERVISIRANJA, POPRAVKI IILI PREPRAVLJANJA.</para>

NI U KOM SLUJA, IZUZEV AKO TO NE ZAHTeva MERODAVNI ZAKON IILI PIJSMEI DOGOVOR, NEE NOSILAC AUTORSKIH PRAVA, ILI BILO KOJE DRUGO LICE KOJE MOE DA IZMENI I/ILI RASPODELI PROGRAM KAO TO JE TO DOPUTENO LICENCOM, BITI ODGOVORAN VAMA ZA TETE, UKLJUČUJU SVE OPTE, POSEBNE, SLUJNE IILI POSLEDINE TETE NASTALE USLED KORIJENA IILI NEMOGUOSTI KORIJENA PROGRAMA (UKLJUČUJUJU ALI NE OGRANIČAVAJU SE NA GUBITAK PODATAKA IILI POGREH PRKAZ PODATAKA IILI GUBITKE KOJE STE IZAZVALI VI IILI TREA LICA, IILI NA NEUSPEH PROGRAMA ZA RAD SA BILO KOJIM DRUGIM PROGRAMIMA), AK I AKO SU TAJ NOSILAC IILI DRUGA LICA BILA OBAVETENA O MOGUOSTI TAKVIH TETE.
Todos estes permitidos a copiar e distribuir cópias literais deste documento de licença, porém a mudança do mesmo não é permitida.

As licenças para a maioria dos softwares são desenvolvidas para tirarem sua liberdade de compartilhar e mudá-lo. Opostamente, as Licenças Públicas Gerais GNU são designadas para garantir sua liberdade de compartilhar e mudar software livre — para garantir que o software livre para todos os seus usuários.

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Quando falamos software livre, estamos nos referindo a liberdade, não ao preço. Nossas Licenças PÚblicas Gerais são desenvolvidas para assegurar que você tenha a liberdade de distribuir cópias de software livre (e cobrar por este serviço se você desejar), que você receba o código-fonte ou possa receber se desejar, que você possa modificar o software ou usar partes dele em novos programas livres; e que você saiba que pode fazer tais coisas.

Esta licença, a Licença PÚblica Geral Branda (Lesser General Public License), se aplica a pacotes de software especialmente designados --tipicamente bibliotecas-- da Free Software Foundation e outros autores que decidiram usá-la. Você pode usá-la também, mas sugerimos que você primeiro pense cuidadosamente se esta licença ou a General Public License normal a melhor estratégia para utilizar em qualquer caso específico, baseado nas explicações abaixo.

Quando falamos software livre, estamos nos referindo a liberdade de uso, não ao preço. Nossas licenças públicas gerais são desenvolvidas para assegurar que você tenha a liberdade de distribuir cópias de software livre (e cobrar por este serviço se desejar); que você receba o código fonte ou possa acessá-lo se quiser; que você possa mudar o software ou usar partes dele em novos programas livres; e que você seja informado que você pode fazer estas coisas.

Para proteger seus direitos, nós precisamos fazer restrições que proibem distribuidores de negar a você estes direitos ou de pedir que você abra os destes direitos. Estas restrições traduzem a certas responsabilidades para você se você distribuir cópias da biblioteca ou se você modificar-lá.

Por exemplo, se você distribuir cópias da biblioteca, seja gratuitas ou por alguma taxa, você deve dar aos destinatários todos os direitos que foram dados, por nós, a você. Você deve garantir que eles, também, recebam ou possam acessar o código-fonte. Se você relacionar outro código com a biblioteca, você deve prover arquivos completos e objetivos aos destinatários, para assim poderem relacioná-los com a biblioteca, depois de fazer mudanças na biblioteca e recompilá-la. E você deve mostrar estes termos, para que eles possam saber seus direitos.

Ns protegemos seus direitos com um método de dois passos: (1) nós registramos o direito autoral da biblioteca e (2) nós oferecemos a você esta licença, o que dá a você a permissão legal de copiar, distribuir e/ou modificar a biblioteca.

Para proteger cada distribuidor, nós queremos deixar claro que não h garantia para a biblioteca livre. Também, se a biblioteca modificada por outra pessoa e repassada, os destinatários devem saber que o que eles possuem no verso original, para que a reputação do autor inicial não seja afetada por problemas que podem ter sido incluídos por outros.

Finalmente, patentes de software apresentam constante ameaça à existência de qualquer programa livre. Ns
desejamos assegurar que uma companhia no possa efetivamente restringir os usuários de um programa livre obtendo uma licença restritiva de um detentor de patente. Portanto, ns insistimos que qualquer licença de patente obtida para uma versão da biblioteca deve ser consistente com toda a liberdade de uso especificada nesta licença.</para>

<para>A maioria do software GNU, incluindo algumas bibliotecas, coberto pela Licença Pública Geral GNU. Esta licença, a Licença Pública Geral Branda GNU (GNU Lesser General Public License) se aplica a certas bibliotecas específicas e particularmente diferente da Licença Pública Geral (General Public License). Ns usamos esta licença para certas bibliotecas de forma a permitir relacionar estas bibliotecas com programas no-livres.</para>

<para>Quando um programa relacionado com uma biblioteca, seja estaticamente ou usando numa biblioteca compartilhada, a combinação das duas, legalmente falando, um trabalho combinado, um trabalho derivado da biblioteca original. A Licença Pública Geral portanto permite tal relacionamento somente se toda a combinação se encaixar no critério de liberdade. A Lesser General Public License permite critérios mais maleveis para relacionar outro código com a biblioteca.</para>

<para>Ns chamamos esta licença de Licença Pública Geral <quote>Branda (Lesser)</quote> porque ela protege menos a liberdade dos usuários do que a Licença Pública Geral (General Public Licence) normal. Ela também providencia a outros desenvolvedores de software livre menos vantagem na competição com programas no-livres. Estas desvantagens são a razão de usarmos Licença Pública Geral (General Public License) para várias bibliotecas. No entanto, a licença Branda provê vantagens em certas circunstâncias especiais.</para>

<para>Por exemplo, em raras ocasiões, pode haver uma necessidade especial de encorajar o maior uso possível de certa biblioteca, de forma que ela se torne um padrão. Para alcançar isso, programas no-livres devem ser permitidos a usar a biblioteca. Um caso mais frequente quando uma biblioteca livre faz o mesmo trabalho que bibliotecas no-livres muito usadas. Neste caso, h pouco a ganhar limitando a biblioteca somente para software livre, ento usamos a Licença Pública Geral Branda (Lesser General Public License).</para>

<para>Em outros casos, permisso para usar uma biblioteca em particular em programas no-livres permite um número maior de pessoas usar uma grande variedade de software livre. Por exemplo, permisso para usar a Biblioteca GNU C em programas no-livres permite muito mais pessoas a usar todo o sistema operacional GNU, assim como sua variante, o sistema operacional GNU/Linux.</para>

<para>Apesar da Lesser General Public License ser menos protetora da liberdade dos usuários, ela assegura que o usuário de um programa que relacionado a Biblioteca tenha a liberdade e os recursos para executar aquele programa usando uma versão modificada da Biblioteca.</para>

<para>Os termos e condições precisos para cópia, distribuição e modificação seguem. Preste atenção na diferença entre um <quote>trabalho baseado numa biblioteca</quote> e um <quote>trabalho que usa uma biblioteca</quote>. O primeiro contém código derivado da biblioteca, enquanto o último deve ser combinado com a biblioteca para que funcione.</para>

</sect1>

<sect1 id="terms" label="none">
<title>TERMOS E CONDIÇÕES PARA CPIA, DISTRIBUIÇÃO E MODIFICAÇÃO</title>

<sect2 id="sect0" label="0">
<title>Seo 0</title>

</sect1>
Este Acordo de Licença se aplica a qualquer biblioteca de software ou outro programa que contenha um aviso colocado pelo proprietário da licença ou outra parte autorizada dizendo que ele pode ser distribuído sob os termos desta Licença Pública Geral Branca (Lesser General Public License) (também chamada “esta Licença”). Cada licenciado referido como “você”.

Uma “biblioteca” significa uma coleção de funções de software e/ou dados preparado de forma a ser convencionalmente relacionado com a aplicação de programas (que usa algumas destas funções e dados) para formar executáveis.

A “Biblioteca”, abaixo, refere-se a qualquer biblioteca de software ou trabalho que tenha sido distribuído sob estes termos. Um “trabalho baseado na Biblioteca” significa que a Biblioteca ou qualquer trabalho derivado está sob a lei de direitos autorais: necessita ser dito que, um trabalho contendo uma Biblioteca ou uma porção dela, seja transcrito ou com modificações e/ou traduzida diretamente em outra língua. (Deste ponto em diante, tradução incluída sem limitação no termo “modificação.”)

“Código fonte” para um trabalho significa a forma preferida de trabalho para fazer modificações no mesmo. Para uma biblioteca, o código fonte completo significa todo o código fonte para todos os módulos que ele contém, mais quaisquer arquivos de definição de interface associados, mais arquivos usados para controlar a compilação e instalação da biblioteca.

Atividades que não sejam cópia, distribuição e modificação são cobertas por esta Licença; elas estão fora do alcance da Licença. O ato de executar um programa usando a Biblioteca não está restrito, e o retorno deste programa coberto somente se os conteúdos dele constituem um trabalho baseado na Biblioteca (independentemente do uso da Biblioteca numa ferramenta para escrevê-la). Se isso verdade depende do que a Biblioteca faz e o que o programa que usa a Biblioteca faz.

Voc pode copiar e distribuir cópias transcritas do código fonte completo da biblioteca ao recebê-la, em qualquer meio, desde que você claramente e apropriadamente publique em cada cópia a nota de direito autoral apropriado e aviso legal de garantia; mantenha intactas todas as notificações que referem a Licença e a ausência de qualquer garantia; e distribua uma cópia desta Licença junto à Biblioteca.

Voc pode modificar sua cópia ou cópias da Biblioteca ou qualquer porção dela, assim formando um trabalho baseado na Biblioteca, e copiar e distribuir tais modificações ou trabalho sob os termos da “seção 1” acima, supondo que você também atenda a todas suas condições.

Voc pode cobrar uma taxa pelo ato físico de transferência da cópia, e você pode por opção oferecer proteção de garantia em troca de uma taxa.
Voc deve fazer com que os arquivos modificados carreguem informações proeminentes de que você modificou os arquivos e a data de qualquer mudança.

Voc deve fazer com que todo o trabalho seja licenciado sob nenhuma taxa a todas as terceiras partes sob os termos desta Licença.

Se uma instalação numa Biblioteca modificada refere a uma função ou a uma tabela de dados a ser fornecida por um programa aplicativo que use a instalação, outro que como um argumento passado quando a instalação é invocada, ento você deve fazer um esforço de boa fé para garantir que, no evento de uma aplicação não fornecer tal função ou tabela, a instalação ainda opere, e execute qualquer parte desta proposta continuando significativa.

(Por exemplo, uma função na biblioteca para calcular raízes quadradas tem um propósito que totalmente bem definido independentemente da aplicação. Dessa forma, a 2 Subseio requisita que qualquer função suprida pela aplicação ou tabela usada por essa função deve ser opcional: se a aplicação não suprir isto, a função da raiz quadrada ainda deve calcular raízes quadradas.)

Estes requisitos se aplicam ao trabalho modificado como um todo. Se se identificáveis do trabalho no so derivadas da Biblioteca, e podem ser razoavelmente considerados trabalhos independentes e separados em si, então esta Licença e seus termos, no se aplicam aquelas seies quando você as distribui como trabalhos separados. Mas quando você distribui as mesmas seies como parte de um todo que um trabalho baseado na Biblioteca, a distribuição do todo deve ser nos termos desta Licença, da qual as permissões para outros licenciados se aplicam para todo o inteiro, e assim para toda e cada parte, independente de quem a escreveu.

Assim, no a intenção desta seio reivindicar direitos ou contestar os seus direitos de trabalho escrito completamente por você; preferencialmente, a intenção exercitar o direito de controlar a distribuição de trabalhos coletivos e derivados baseados na Biblioteca.

Em adição, a mera agregação de qualquer trabalho no baseado na Biblioteca com a Biblioteca (ou com um trabalho baseado na Biblioteca) num volume de armazenamento ou meio de distribuição no traz a outro trabalho sob o alcance desta Licença.

Voc pode optar por aplicar os termos de licença da Licença Pública Geral GNU normal (GNU General Public License) ao invés desta Licença para determinada cópia da Biblioteca. Para fazer isto, você deve alterar todas as indicações que se referem a esta Licença, para que elas refiram-se a Licença Pública Geral GNU normal (GNU General Public License), verso 2, invés desta Licença. (Se uma versão mais nova que a verso 2 da Licença Pública Geral GNU (GNU General Public License) tiver aparecido ento você pode especificar esta versão se desejá-lo.) No faa nenhuma outra mudança nestas modificações.

Uma vez feita a mudança em determinada cópia, isto irreversible para esta cópia, ento a Licença Pública Geral
GNU normal se aplica a todas as cpias subsequentes e trabalhos derivados feitos desta cpia.</para>

<para>Esta opo  til quando voc deseja copiar parte do cdigo da Biblioteca para um programa que no  uma biblioteca.</para>

</sect2>

<sect2 id="sect4" label="4">
<title>Seo 4</title>

<para>Voc pode copiar e distribuir a Biblioteca (ou uma poro ou derivada dela, sob <link linkend="sect2">Seo 2</link> ) em cdigo objetivo ou de forma executvel sob os termos das Sees <link linkend="sect1">1</link> e <link linkend="sect2">2</link> acima fornecido que voc acompanhe-a com o cdigo-fonte correspondente em formato lido por mquina, que deve ser distribuido sob os termos das Sees <link linkend="sect1">1</link> e <link linkend="sect2">2</link> acima num meio costumeadamente usado para transao de software.</para>

<para>Se a distribuio do cdigo  feita oferecendo acesso a cpia de um local especifico, ento oferecer acesso equivalente cpia do cdigo-fonte do mesmo local satisfaz a requerimento de distribuir o cdigo fonte, mesmo se terceiros no tiverem interesse de copiar a fonte junto ao cdigo em questio.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Seo 5</title>

<para>Um programa que contm nenhum derivado de qualquer poro da Biblioteca, mas desenvolvido para trabalhar com a Biblioteca por ser compilado com ela ou ser relacionado a ela, chamado <quote>trabalho que usa a Biblioteca</quote>. Tal trabalho, em isolamento, no  um trabalho derivado da Biblioteca, e desta forma, fica fora da competncia desta Licena.</para>

<para>No entanto, relacionar um <quote>trabalho que usa a Biblioteca</quote> com a Biblioteca cria um executvel que derivado da Biblioteca (porque ela contem pores da Biblioteca), mais do que um <quote>um trabalho que usa a biblioteca</quote>. O executvel desta forma coberto por esta Licena. <link linkend="sect6">Seo 6</link>diz os termos para a distribuio de tais executveis.</para>

<para>Quando um <quote>trabalho que usa a Biblioteca</quote> usa material de um arquivo pai que parte da Biblioteca, o cdigo em questio para o trabalho pode ser um trabalho derivado da Biblioteca mesmo que o cdigo fonte no seja. Se isso verdade especialmente significante se o trabalho pode ser relacionado sem a Biblioteca, ou se o trabalho por si s uma biblioteca. O principio para isso ser verdade no precisamente definido por lei.</para>

<para>Se tal arquivo objeto usa somente parametros numricos, o layout da estrutura de dados e acessrios, e pequenas macros e pequenas funes internas (dez linhas ou menos de tamanho), ento o uso do objeto irrestrito, independente de ser um trabalho derivado legalmente.(Executveis contendo este cdigo objeto e pores da Biblioteca ainda ficam sob a <link linkend="sect6">Seo 6</link>.)</para>

<para>De outra forma, se o trabalho for derivado da Biblioteca, voc pode distribuir o cdigo objeto para o trabalho sob os termos da <link linkend="sect6">Seo 6</link>. Quaisquer executveis contendo este trabalho tambm ficam sob a <link linkend="sect6">Seo 6</link> estando, ou no, relacionados diretamente a Biblioteca.</para>

</sect2>
Como uma exceção às Sees acima, você pode também combinar ou relacionar um <quote>trabalho que usa a Biblioteca</quote> com a Biblioteca para produzir um trabalho contendo poros da Biblioteca, e distribuir este trabalho sob os termos de sua escolha, dado que os termos permitam modificação do trabalho para o uso do próprio cliente e engenharia reversa para depuração destas modificações.

Vocês deve dar aviso proeminente com cada cópia do trabalho que esta Biblioteca usada nela e que a Biblioteca e seu uso são cobertos por esta Licença. Vocês deve fornecer uma cópia desta Licença. Se o trabalho, durante esta execução, exigir avisos de direitos autorais, você deve incluir o aviso de direitos autorais para a Biblioteca entre eles, assim como uma referência direcionando o usuário a cópia desta Licença. Também, você deve fazer outras dessas coisas:

- Acompanhe o trabalho com o correspondente código-fonte em formato lido por máquina para a Biblioteca, incluindo quaisquer mudanças que foram usadas no trabalho que deve ser distribuído sob as Sees <link linkend="sect1">1</link> e <link linkend="sect2">2</link> acima; e, se o trabalho um executável relacionado com a Biblioteca, com o <quote>trabalho que usa a Biblioteca</quote> completo em formato lido por máquina, como código objeto e/ou código-fonte, para que o usuário possa modificar a Biblioteca e então relacionar novamente para produzir um executável modificado contendo a Biblioteca modificada. (entendido que o usuário que modifica os conteúdos de arquivos de definição da Biblioteca não será necessário recompilando a aplicação para usar as definições modificadas.)

- Use um mecanismo de biblioteca compartilhada compatível com relationsamento com a Biblioteca. Um mecanismo compatível um que (1) usa no tempo de execução uma cópia da biblioteca já presente no sistema do computador do usuário, ao invés de copiar funções da biblioteca no executável, e (2) v operar apropriadamente com uma versão modificada, se o usuário instalar uma, contanto que a versão modificada seja compatível com a interface da versão na qual o trabalho foi desenvolvido.

- Acompanhe o trabalho com uma oferta escrita, válida pelo menos três anos, de dar ao mesmo usuário os materiais especificados na <link linkend="sect6a">Subseo 6a</link>, acima, por um valor no maior que o custo de efetuar esta distribuição.

- Se a distribuição do trabalho feita oferecendo acesso a cópia de um local específico, ofereça acesso equivalente cópia dos materiais acima especificados, do mesmo local.

- Verifique se o usuário já recebeu uma cópia desses materiais ou que você já enviou uma cópia a este usuário.

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</sect2>

<sect2 id="sect10" label="10">
<title>Seo 10</title>

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</sect2>

<sect2 id="sect11" label="11">
<title>Seo 11</title>

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<sect2 id="sect12" label="12">
<title>Seo 12</title>

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linkend="fdl-transparent">transparent</link> kopia med varje opak kopia, eller ange i eller med varje opak kopia en
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<para>Bevara den ntverksadress, om det finns ngon, angiven i <link linkend="fdl-document">dokumentet</link> till den allmnt tillngliga <link linkend="fdl-transparent">transparenta</link> kopian av dokumentet, och likas ntverksadresserna till de fregende versioner som dokumentet baseras p. Dessa fr placeras i avsnittet <quote>historik</quote> (History). Du ger utelmna en ntverksadress fr ett verk som r publicerat mer n fyra r fre dokumentet sjvt, eller om den ursprunglige utgivaren vars verk ntverksadressen hnvisar till ger sitt tillstnd.</para>
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<para>Fr alla avsnitt med titlarna <quote>tillknnagivanden</quote> (Acknowledgements) eller <quote>dedikationer</quote> (Dedications), bevara titeln p avsnittet, och bevara allt innehll och prgel p alla tillknnagivanden och/eller dedikationer gjorda av varje bidragare.</para>
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<para>Bevara alla <link linkend="fdl-invariant">ofrnderliga avsnitt</link> i <link linkend="fdl-document">dokumentet</link> ofrdrade till text och titel. Avsnittsnummer eller motsvarande anses inte tillhra avsnittets titel.</para>
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<para>Radera varje avsnitt med titeln <quote>endossering</quote> (Endorsements). Ett sdant avsnitt fr inte inkluderas i en <link linkend="fdl-modified">frndrad version</link>..
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<para>Inte byta titel p ngot existerande avsnitt s att det blir <quote>endossering</quote> (Endorsements) eller s att titeln kan frvxlas med ngot <link linkend="fdl-invariant">ofrderligt avsnitt</link>.</para>
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<para>Om den <link linkend="fdl-modified">frndrade versionen</link> innehller nya frmsidestexter eller bilagor som r att anses som <link linkend="fdl-secondary">sekundra avsnitt</link> och inte innehller ngot material kopierat frn dokumentet, s ger du, om du vill, benmna ngra eller samtliga av dessa som ofrdnerliga. Fr att gra detta, lgg deras titlar till listan ver <link linkend="fdl-invariant">ofrderliga avsnitt</link> i den frndrade versionens licensmeddelande. Dessa titlar mste vara skilda frn alla andra avsnitts titlar.</para>
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<sect2 id="sect6a">
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<sect7 id="sect7" label="7">
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Mi ngi u uc quyn sao chp v phn phi nguyn vn ti liu giy php ny, nhng khng c php thay i n. 

Phin bn 2, thng 6/1991

Giy php s dng ca hu ht cc phn mm c thit k bn khng c t do chia s v thay i phn mm . Tri li, Giy php Cng cng GNU d nh m bo cho bn c t do chia s v thay i phn mm mt cch t do, v m bo phn mm t do cho mi ngi s dng. Giy php Cng cng GNU ny p dng cho hu ht nhng phn mm ca T chc Phn mm T do, v cho bt k chng trnh my tnh no khe m tc gi ca n cam kt s dng n. (Mt s phn mm khe ca T chc Phn mm T do dng Giy php Thvin Cng cng GNU thay th.) Bn eng c
Khi chặng trì ní v phnginx mm t do, chặng trì cp n s t do s dng, ch khang phi l ɡ c. Giy php Cng cng GNU ca chặng trì c thit k m bo bn c quyn t do phpt hnh bn sao ca phnginx mm t do (v thu tin dch v ny nu mun), nhn m ngun hoc c kh ngly n n bu mnvn, bn c th thay i phnginx mm hay s dng bt k on no ca n trong chặng trinh t do mi; v gip bn bit r l bn c th lm nhng iu ny.</para>

Bo v quyn li ca bn, chặng trì c a ra nhng hn ch cm bt c ai ph nhn bn c nhng quyn ny hay i hi bn t b n. Nhng s hn ch ny c hiu l mt s trrh nhım nht thit ca bn n bu bn phpt hnh bn sao ca phnginx mm hoc sa i n.</para>

Chặng hn, nu bn phnginx hnh bn sao ca chặng trinh nh vy, d l cho khng hay thu tin, bn phi trao cho ngi nhn tt c nhng quyn bn c. Bn phi chc chn l h cng nhn c hay c th ly m ngun. V bn cng phi cho h bit nhng iu kin ny, h bit nhng quyn ca h.</para>

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Bản quyền sao chép và phân phối bản sao

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1. Bạn phải ghi chú rõ ràng rằng bạn đã thay đổi các tệp và ngày thay đổi.
2. Bạn phải phân phối các bản sao hoặc công việc của mình, có chứa hoặc là sản phẩm của phần mềm này hoặc phần nào đó của nó, theo điều kiện của bản Lizense toàn bộ cho tất cả các bên thứ ba.
3. Nếu chương trình được chạy tương tác khi được chạy, bạn phải ghi chú rằng bạn đã thay đổi ngày chạy.

Chương 2

Liên kết đến "Chương 1":

Bản quyền sao chép và phân phối công việc

Bạn có thể sửa đổi bản sao hoặc công việc của chương trình theo các điều kiện sau:

1. Bạn không được phân phối hoặc đăng công việc mà bạn đã thể hiện hoặc được tạo ra từ phần mềm này, cho dù đó là toàn bộ hoặc một phần của nó.
2. Bạn phải phân phối các bản sao hoặc công việc của mình, có chứa hoặc là sản phẩm của phần mềm này hoặc phần nào đó của nó, theo điều kiện của bản Lizense toàn bộ cho tất cả các bên thứ ba.
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<note>
<title>Exception:</title>
<para>
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</note>

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</para>

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<sect2 id="sect3" label="3">
<title>Phần 3</title>

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you also do one of the following:

<orderedlist numeration="loweralpha">
<li>
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Accompany it with a written offer, valid for at least three years, to give any
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to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,
Accompany it with the information you received as to the offer to distribute
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with such an offer, in accord with Subsection b above.)

Mạng cần của người dùng phải có thông tin về mã nguồn. Thông tin này có thể được cung cấp dưới dạng mã nguồn mã nguồn hoặc bằng cách cung cấp một bản sao của mã nguồn mã nguồn. Tuy nhiên, người dùng không được yêu cầu cung cấp bản sao hoặc bản sao của mã nguồn mã nguồn cho những người thứ ba, trừ khi họ nhận được một lời đề nghị được cung cấp trước đó.

Nu việc phân phối mã nguồn mã nguồn có thể được thực hiện thông qua một cơ sở hoặc bằng cách phân phát mã nguồn mã nguồn. Tuy nhiên, người dùng không được yêu cầu cung cấp bản sao hoặc bản sao của mã nguồn mã nguồn cho những người thứ ba, trừ khi họ nhận được một lời đề nghị được cung cấp trước đó.

Không cho phép phân phối mã nguồn mã nguồn, ngoại trừ trong trường hợp được phép. Tuy nhiên, người dùng không được yêu cầu cung cấp bản sao hoặc bản sao của mã nguồn mã nguồn cho những người thứ ba, trừ khi họ nhận được một lời đề nghị được cung cấp trước đó.

Khong cho php bn sao chp, sa i, cp giy php ph hay ph pt nhn Chng trnh, tr vi iu kin c din t dt khot trong Giy php ny. Bt k s c gng no trong vic sao chp, sa i, cp giy php ph hay ph pt nhn Chng trnh bng cch khe b bi b, v s kt the cc quyn ca bn di Giy php ny. Tuy nhin, ngh c nhn bn sao hay quyn t bn di Giy php ny s khng b nh hng, min l h tip tc tun theo hon ton.

Không cho phép phân phối mã nguồn mã nguồn, ngoại trừ trong trường hợp được phép. Tuy nhiên, người dùng không được yêu cầu cung cấp bản sao hoặc bản sao của mã nguồn mã nguồn cho những người thứ ba, trừ khi họ nhận được một lời đề nghị được cung cấp trước đó.

Không cho phép phân phối mã nguồn mã nguồn, ngoại trừ trong trường hợp được phép. Tuy nhiên, người dùng không được yêu cầu cung cấp bản sao hoặc bản sao của mã nguồn mã nguồn cho những người thứ ba, trừ khi họ nhận được một lời đề nghị được cung cấp trước đó.
Nếu bạn cần biết thông tin về phần mềm và công nghệ liên quan đến vấn đề quản lý mạng, hãy liên hệ với chúng tôi.

**Phần 6**

Mỗi lần bạn phóng hình dòng Chng trình (hoặc sản phẩm đa vụ n), người dùng có thể cảm nhận được sự ổn định, phát triển hay sao chép, phóng hình hay sao Chng trình hay sản phẩm đa vụ n.

**Phần 7**

Nói, do kết quả của quyet định ca to n hay.cc có bước vi phạm bằng sng ch hay v bt c l do no (khi b gii ln trong vn bng sng ch), bn b p bước chụp nhn iu kin (học v quyet nh ca to n, s thọ thun học cch khe no) m mu thun iu kin ca Giy php ny, trng hp ny khng min cho bn khng phi thà mn iu kin ca Giy php ny. Nu bn khng th phát hnh bng cch tha mn ng thì cc gia o ca bn dl Giy php ny v bt k gia o thch hp khe, th kt qu l khng cho phổ bn pht hnh Chng trình bng cch no c. Lý th d, nu mt bng sng ch no khng cho phổ s pht hnh li Chng trnh mt cch min tin bn quyn phát minh cho mi ngi nhn bn sao t bn mt cch trc tip hay gin tip, th cch duy nhất bn c th tha c bng v Giy php ny l hon ton khng phát hnh Chng trnh.

**Phần 8**

Nếu s phát hành v/hay cch s đong Chng trình b ln ch trong mt s quoc gia no , hoc bi bng sng ch hoc bi gia o din c bn quyn tc gi, nghi gi tc quyn gc t Chng trình đt Giy php ny c kh nng thm s ln ch phát hnh a l ring loi tr nhng quc gia , cho phổ phát hnh ch trong hay gia cc quc gia khng b loi tr nh th. Trong trng hp nh vy, Giy php ny hp nht s ln ch nh l n c ghi trong thn ca Giy php ny. 

**Phần 9**
<para>T chc Phn mm T do c th xut bn phin bn sa i v/hay mi ca Giy php Cng cng GNU. Phin bn mi nh vy s c tinh thn trng t vi phin bn hin thi, nhng c th khc bit trong chi tit gii quy vt mi. </para>

<para>Mi phin bn c gn mt s hiu phn bit phin bn . Nu Chng trnh xc nh s phin bn ring ca Giy php ny p dng cho n, v bt k phin bn sau no , bn c ty chn thia iu kin hoc ca phin bn , hoc ca bt k phin bn sau no c xut bn bi T chc Phn mm T do. Nu Chng trnh khng xc nh s phin bn ring ca Giy php ny, bn c kh nng chn bt k phin bn no ca Giy php ny c xut bn bi T chc Phn mm T do. </para>

</sect2>

<sect2 id="sect10" label="10">
<title>Phn 10</title>

<para>Nu bn mun hp nht phn no ca Chng trnh vo chng trnh t do khc c iu kin pt hhnh khc GPL, hy xin php tc gi. i vi phn mm c bn quyn tc gi ca T chc Phn mm T do, hy vit th cho T chc Phn mm T do : thng thong chng ti cho php ngoi l trong trng hp ny. Quyt nh ca chng ti s c hng dn bi hai mc ch l s bo tn trng thi t do ca mi iu bt ngun t phn mm t do ca chng ti, v s y mn s chia s v s dng li phn mm mt cch chung. </para>

</sect2>

<sect2 id="sect11" label="11">
<title>KHNG BO HNH</title>

<subtitle>Phn 11</subtitle>

<para>V CHNG TRNH C CP PHP MIN PH, KHNG C BO HNH I VI CHNG TRNH NY, VI IU KIN C PHP LUT CHO PHP. TR KHI XC NH KHC BNG TI LIU GIY T, CC NGI GI BN QUYN TC GI V/HAY NGI KHC CUNG CP CHNG TRNH NY NH TH , KHNG C BO HNH G C, KHNG PHT BIU N, CNG KHNG NG N, GM, NHNG KHNG B HN CH BI, S BO M NG TNH TRNG C TH BN C V S THCH HP VI MT MC CH DT KHOT. MI RI RO V CHT LNG, CHNH XC V HIU SUT CA CHNG TRNH NY BN S T CHU. NU CHNG TRNH NY GY RA H HNG, BN GNH VC HON TON TRCH NGHIM TR TIN DCH V GIP HAY SA CHA. </para>

</sect2>

<sect2 id="sect12" label="12">
<title>Phn 12</title>

<para>KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M BT K NGI GI BN QUYN TC GI NO, HAY BT K NGI KHC NO C TH SA I V/HAY PHT HNH LI CHNG TRNH NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THNG, GM BT K BI THNG KIU TNG QUT, C BIT, NGU NHIN HAY DO HU QU DO S DNG HAY S KHNG C KH NNG S DNG CHNG TRNH NY (GM NHNG KHNG PHI B HN TH BI S MT D LIU HAY D LIU B LM CHO KHNG CHNH XC HAY CC MT MT CA BN HAY NGI KHC HAY S KHNG HOT NG C CHNG TRNH NY VI CHNG TRNH KHC), THM CH NU BN HAY NGI KHC C BO BIT C KH NNG THIT HI NH VY. </para>

</sect2>

</sect1>
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<title> 3</title>

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<title></title>
<subtitle>15</subtitle>

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<title>16</title>

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3. You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
4. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a <quote>work that uses the Library</quote> with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a <quote>work that uses the library</quote>. The executable is therefore covered by this License. <link linkend="sect6">Section 6</link> states terms for distribution of such executables.

When a <quote>work that uses the Library</quote> uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under <link linkend="sect6">Section 6</link>.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of <link linkend="sect6">Section 6</link>. Any executables containing that work also fall under <link linkend="sect6">Section 6</link>, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a <quote>work that uses the Library</quote> with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

</para>

<para>
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<orderedlist numeration="loweralpha">
  <listitem>
    <para id="sect6a">
      Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <link linkend="sect1">1</link> and <link linkend="sect2">2</link> above); and, if the work is an executable linked with the Library, with the complete machine-readable <quote>work that uses the Library</quote>, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
    </para>
  </listitem>
  <listitem>
    <para>
      Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
    </para>
  </listitem>
  <listitem>
    <para>
      Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing this distribution.
    </para>
  </listitem>
</orderedlist>
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Kohta 14:

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Kohta 15:


Kohta 16:

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Vincent Untz vuntz@gnome.org

Jonathan Ernst jonathan@ernstfamily.ch
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</sect1>

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</sect1>

<sect1 id="fdl-section5" label="5">
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</sect1>

<sect1 id="fdl-section6" label="6">
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</sect1>

<sect1 id="fdl-section7" label="7">
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<sect1 id="fdl-section8" label="8">
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</sect1>

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<sect1 id="fdl-using" label="none">
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<sect1 id="fdl-preamble" label="0">
<title>Predgovor</title>

<p>Namen dovoljenja je omogoiti, da prironik, ubenik, ali kak drug pisani dokument, postane <quote>prost</quote> v pomenski obliki prostosti: zagotoviti vsakomur uinkovito prostost, da besedilo prepisuje in razirja, s spremembami ali brez njih, komercialno ali nekomercialno. Dovoljenje ohranja avtorske in zalonike zasluge, vendar brez prenesene odgovornosti za spremembe, ki so jih naredili drugi.</p>
</sect1>

<sect1 id="fdl-section1" label="1">
<title>Primernost in definicije</title>

<p>Dovoljenje je zasnovano za prironike za prosto programsko opremo, saj je prosta dokumentacija pogosto sestavni del prostih programov: prosti program bi moral vkljujevati prironike, ki imajo enaka doloila svoboin, kot sam program. To dovoljenje pa ni omejeno le na prironike programov; uporablja se lahko za katerokoli besedilno delo, ne glede na temo ali nain izdaje. To dovoljenje je priporoljivo predvsem za dela, katerih namen je podajanje navodil in sklicnih podatkov.</p>
</sect1>

<sect1 id="fdl-modified">
<title>Spremenjena razlika</title>

<p>Spremenjena razlika (v originalu Modified Version) dokumenta pomeni vsako delo, ki vsebuje ta dokument ali del tega, bodisi prepisan dobesedno ali s spremembami in/ali preveden v drug jezik.</p>
</sect1>
Drugotni razdelek (v originalu Secondary Section) se imenuje dodatek ali razdelek na prednjih straneh. Dokument, ki obravnava izključno odnose izdajatelja ali avtorja tega dokumenta do sponle vsebine dokumenta (ali s tem povezanih vsebin) in ne vsebuje niesar, kar bi sodilo neposredno v to splošno vsebino. (e je, denimo, ta dokument del ubenika matematike, drugotni razdelek ne sme vkljuevati razlage matematike.) Odnos je lahko stvar zgodovinske povezave s predmetom ali s povezanimi vsebinami, ali pravni, pridobitni, filozofski, etni ali politini poloaj glede teh vsebin.

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Besedila na platnicah (v originalu Cover Texts) so doloeni kratki deli besedila, ki so nateti kot besedila za prvo ali zadnjo stran knjige, v izjavi, ki pravi, da je s link in Drugotni razdelki izdan pod pogoji tega dovoljenja.

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Naslovna stran (v originalu Title Page) pomeni besedilo blizu najvidnejši pojavitvi naslova dela, pred zaetkom telesa besedila.

Dobesedno razmnoevanje (v originalu Section 2) je dovoljeno razmnoevati in razirjati na kakrenkoli nain, pridobitno ali nepridobitno, e je le na vsakem izvodu objavljeno to dovoljenje, izjave o pravicah razirjanja, in obvestilo dovoljenja, ki pravi, da se to nanaa na ta dokument, in da doolo plj izvodov niso posebej dodane omejitve. Ni dovoljeno uporabljati tehniknih ukrepov, ki bi prepreceli ali nadzorovali branje ali nadaljnje razirjanje izvodov, ki jih naredite ali razirjate. Izvode je dovoljeno zaraunati. V kolikor razirjate dovolj veliko izvodov, je treba upotevati tudi doloila iz 3. razdelka.

Izvode je dovoljeno posojati, pod enakimi pogoji, kot so opisani zgoraj, in jih tudi javno prikazovati.
Mnojino razmnoevanje

Pri izdajanju natisnjenih izvodov tega <link linkend="fdl-document">Dokumenta</link> v nakladi ve kot 100 izvodov, in dovoljenje dokumenta zahteva tudi <link linkend="fdl-cover-texts">Besedila na platnicah</link>, je treba izvode obdati s platnicami, ki itljivo in razumljivo nosijo vsa ta Besedila na platnicah: besedila na naslovnic v naslovnicah in besedila na zadnji strani platnic. Na obeh platnicah mora biti tudi itljivo in razumljivo zavedeno izdajateljih teh izvodov. Prednja platnica mora vsebovati popoln naslov z vsemi enako izrazito natisnjenimi in vidnimi besedami naslova. Na platnice je ob tem dovoljeno dodati tudi druge stvari. Kopiranje s spremembami, omejenimi na platnic, je lahko ohranjeno na naslovnicah in prelomljeno na naslovnicah. <para>

e je zahtevanih besedil za katero od platnic preve, da bi jih bilo mogoče podati itljivo, je treba najprej vstaviti prve natete (kolikor jih pa razumno gre) na pravo platnico, in vstaviti preostanek na strani, ki neposredno sledijo naslovnic.</para>

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Spremenjeno razliico tega <link linkend="fdl-document">Dokumenta</link> je dovoljeno razmnoevati in razirjati pod pogoji iz <link linkend="fdl-section2">2.</link> in <link linkend="fdl-section3">3.</link> razdelka, v kolikor bo izdana <link linkend="fdl-modified">Spremenjena razliica</link> pod tomo tem dovoljenjem, kjer Spremenjena razliica prevzame vlogo tega dokumenta, in torej to dovoljenje ureja razirjanje in spreminjanje Spremenjene razlice za kogarkoli, ki poseje izvod. Poleg tega je treba v Spremenjeni razliici narediti e naslednje:</para>

<itemizedlist mark="upper-alpha">
<listitem>

Na <link linkend="fdl-title-page">naslovn strani</link> (ali platnicah, e obstajajo) uporabite naslov, razljen iz naslova izvirnega <link linkend="fdl-document">Dokumenta</link> in vseh prejnjih razlic. Zagotovite, da je mora biti, e jih je kaj, natete v razdeliku Zgodovina v dokumentu). e se izvirni zalonik s tem strinja, lahko uporabite isti naslov kot ga ima prejnj različica.</listitem>
</itemizedlist>
Na naslovni strani poti avtorje, odgovornih za avtorstvo sprememb v Spremenjeni različici, skupaj z vsaj petimi glavnimi avtorji ali vsemi avtorji, e jih je manj kot pet.

Na naslovni strani imenovati zalonika Spremenjene različice.

Ohraniti vsa obvestila o pravicah razirjanja Dokumenta.

Dodati ustrezno obvestilo o pravicah razirjanja za vse spremembe poleg drugih obvestil o pravicah razirjanja.

Takoj po obvestilih o pravicah razirjanja vključiti obvestilo dovoljenja, ki javno dovoljuje rabo Spremenjene različice pod pogoji tega dovoljenja, v obliki, prikazani v Dodatku, spodaj.

V tem obvestilu dovoljenja ohranite popoln seznam Nespremenljivih razdelkov in zahtevanih Besedil na ovitku Besedil na ovitku, podanih v obvestilu dovoljenja tega Dokumenta.

Vključite nespremenjen izvod tega dovoljenja.

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V kolikor obstaja, je priporočeno ohraniti omrezo mesto, za javni dostop do...
V vsakem razdelku, poimenovanem "Zahvale" ali "Posvetila", je treba ohraniti naslov razdelka in v razdelku ohraniti vse izvorne vsebine za vse tam podane zahvale in/ali posvetila.

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Ni dovoljeno preimenovati kateregakoli obstojega razdelka v "Odobritve" ali v isto ime, kot ga ima "Nespremenljive razdelke".

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</sect1>

<title>Prevod</title>

<para>Prevod teje za vrsto spremembe, zato lahko razirjate prevode <link linkend="fdl-document">Dokumenta</link> pod pogoji <link linkend="fdl-section4">4. razdelka</link>. Nadomeanje <link linkend="fdl-invariant">Nespremenljivih razdelkov</link> s prevodi zahteva posebno dovoljenje imetnikov pravic njihovega razirjanja, lahko pa vkljuite prevode nekaterih Nespremenljivih razdelkov poleg izvirnih razlic teh Nespremenljivih razdelkov. Vkljuite lahko tudi prevod tega dovoljenja, e vkljuite tudi izvirno angleko razliico tega dovoljenja. V primeru neskladja med prevodom in anglekom izvirnikom tega dovoljenja, velja izvirna angleka razliica.</para>

</sect1>

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2. Nous vous livrons cette licence, qui vous donne l'autorisation légale de copier, distribuer et/ou modifier le
En outre, pour la protection de chaque auteur ainsi que la ntre, nous voulons nous assurer que chacun comprenne que ce logiciel libre ne fait l'objet d'aucune garantie. Si le logiciel est modifié par quelqu'un d'autre puis transmis des tiers, nous voulons que les destinataires soient mis au courant que ce qu'ils ont reçu n'est pas le logiciel d'origine, de sorte que tout problème introduit par d'autres ne puisse entacher la réputation de l'auteur originel.

En définitive, un programme libre restera la merci des brevets de logiciels. Nous souhaitons viter le risque que les redistributeurs d'un programme libre fassent des demandes individuelles de licence de brevet, ceci ayant pour effet de rendre le programme propriétaire. Pour viter cela, nous tablissons clairement que toute licence de brevet doit être concédée de façon que ce l'usage en soit libre pour tous ou bien qu'aucune licence ne soit concédée.

Les termes exacts et les conditions de copie, distribution et modification sont les suivants.

**CONDITIONS DE COPIE, DISTRIBUTION ET MODIFICATION**

La présente Licence s'applique tout programme ou tout autre ouvrage contenant un avis, apposé par le titulaire des droits d'auteur, stipulant qu'il peut être distribué au titre des conditions de la présente Licence Publique Générale. Ci-après, le «Programme» désigne l'un quelconque de ces programmes ou ouvrages, et un «ouvrage fond sur le Programme» désigne soit le Programme, soit un ouvrage qui en dérive au titre des lois sur le droit d'auteur: en d'autres termes, un ouvrage contenant le Programme ou une partie de ce dernier, soit l'identique, soit avec des modifications et/ou traduit dans un autre langage. (Ci-après, le terme <quote>modification</quote> implique, sans s'y réduire, le terme traduction) Chaque concessionnaire sera désigné par <quote>vous</quote>.

Les activités autres que la copie, la distribution et la modification ne sont pas couvertes par la présente Licence; elles sont hors de son champ d'application. L'opération consistant d'exécuter le Programme n'est soumise aucune limitation et les sorties du programme ne sont couvertes que si leur contenu constitue un ouvrage fond sur le Programme (indépendamment du fait qu'il ait été réalisé par l'exécution du Programme). La validité de ce qui précède dépend de ce que fait le Programme.

Vous pouvez copier et distribuer des copies l'identique du code source du Programme tel que vous l'avez reçu, sur n'importe quel support, du moment que vous apposiez sur chaque copie, de manière ad hoc et parfaitement visible, l'avis de droit d'auteur adquat et une exonération de garantie; que vous gardiez intacts tous les avis faisant référence la présente Licence et l'absence de toute garantie; et que vous fournissiez tout destinataire du Programme autre que vous mème un exemplaire de la présente Licence en mème temps que le Programme.

Vous pouvez faire payer l'acte physique de transmission d'une copie, et vous pouvez, votre discrétion,
proposer une garantie contre rémunération.

<title>Article 2</title>

Vous pouvez modifier votre copie ou des copies du Programme ou n'importe quelle partie de celui-ci, crant ainsi un ouvrage fond sur le Programme, et copier et distribuer de telles modifications ou ouvrage selon les termes de l'Article 1 ci-dessus, condition de vous conformer galement chacune des obligations suivantes: 

<listitem>
Vous devez munir les fichiers modifiés d'avis bien visibles stipulant que vous avez modifi ces fichiers, ainsi que la date de chaque modification;

<listitem>
Vous devez prendre les dispositions ncessaires pour que tout ouvrage que vous distribuez ou publiez, et qui, en totalit ou en partie, contient ou est fond sur le Programme - ou une partie quelconque de ce dernier - soit concd comme un tout, titre gratuit, n'importe quel tiers, au titre des conditions de la prsente Licence;

<listitem>
Si le programme modifi lit habituellement des instructions de faon interactive lorsqu'on l'execute, vous devez, quand il commence son excution pour ladite utilisation interactive de la manire la plus usuelle, faire en sorte qu'il imprime ou affine une annonce comprenant un avis de droit d'auteur ad hoc, et un avis stipulant qu'il n'y a pas de garantie (ou bien indiquant que c'est vous qui fournissez la garantie), et que les utilisateurs peuvent redistribuer le programme en respectant les prsentes obligations, et expliquant l'utilisateur comment voir une copie de la prsente Licence. 

<note>
Si le Programme est lui-mme interactif mais n'imprime pas habituellement une telle annonce, votre ouvrage fond sur le Programme n'est pas oblig d'imprimer une annonce.

</note>

Ces obligations s'appliquent l'ouvrage modifi pris comme un tout. Si des lmets identifiables de cet ouvrage ne sont pas fondes sur le Programme et peuvent raisonnablement tre considres comme des ouvrages indpendants distincts en eux mmes, alors la prsente Licence et ses conditions ne s'appliquent pas ces lmets lorsque vous les distribuez en tant qu'ouvrages distincts. Mais lorsque vous distribuez ces mmes lmets comme partie d'un tout, lequel constitue un ouvrage fond sur le Programme, la distribution de ce tout doit tre soumise aux conditions de la prsente Licence, et les autorisations qu'elle octroie aux autres concessionnaires s'endent l'ensemble de l'ouvrage et par consquent chaque et toute partie indiffrement de qui l'a crit.

Par consquent, l'objet du prsent article n'est pas de revendiquer des droits ou de contester vos droits sur un ouvrage entièrement crit par vous; son objet est plutt d'exercer le droit de contrler la distribution d'ouvrages dris ou d'ouvrages collectifs fonds sur le Programme.

De plus, la simple proximit du Programme avec un autre ouvrage qui n'est pas fond sur le Programme (ou un ouvrage fond sur le Programme) sur une partition d'un espace de stockage ou un support de distribution ne place pas cet autre ouvrage dans le champ d'application de la prsente Licence.
Vous pouvez copier et distribuer le Programme (ou un ouvrage fond sur lui, selon l’Article 2) sous forme de code objet ou d'exécutable, selon les termes des Articles 1 et 2 ci-dessus, condition que vous accomplissiez l'un des points suivants: 

- L'accompagner de l'intégralité du code source correspondant, sous une forme lisible par un ordinateur, lequel doit être distribué au titre des termes des Articles 1 et 2 ci-dessus, sur un support habituellement utilisé pour l'échange de logiciels; ou,
- L'accompagner d'une proposition écrite, valable pendant au moins trois ans, de fournir tout tiers, un tarif qui ne soit pas supérieur ce que vous cote l'acte physique de réaliser une distribution source, une copie intégrale du code source correspondant sous une forme lisible par un ordinateur, qui sera distribuée au titre des termes des Articles 1 et 2 ci-dessus, sur un support habituellement utilisé pour l'échange de logiciels; ou,
- L'accompagner des informations reçues par vous concernant la proposition de distribution du code source correspondant. (Cette solution n'est autorisée que dans le cas d'une distribution non-commerciale et seulement si vous avez reçu le programme sous forme de code objet ou d'exécutable accompagné d'une telle proposition - en conformité avec le sous-Article b ci-dessus.)

Le code source d'un ouvrage désigne la forme favorite pour travailler des modifications de cet ouvrage. Pour un ouvrage exécutable, le code source intégral désigne la totalité du code source de la totalité des modules qu'il contient, ainsi que les ventuels fichiers de définition des interfaces qui y sont associés, ainsi que les scripts utilisés pour contrôler la compilation et l'installation de l'exécutable. Cependant, par exception spéciale, le code source distribué n'est pas censé inclure quoi que ce soit de normalement distribué (que ce soit sous forme source ou binaire) avec les composants principaux (compilateur, noyau, et autre) du système d'exploitation sur lequel l'exécutable tourne, moins que ce composant lui-même n'accompagne l'exécutable.

Si distribuer un exécutable ou un code objet consiste offrir un accès permettant leur copie depuis un endroit particulier, alors l'offre d'un accès équivalent pour copier le code source depuis le même endroit compte comme une distribution du code source - même si les tiers ne sont pas contraints de copier le source en même temps que le code objet.
verront pas leurs autorisations résilées aussi longtemps que ledits tiers se conforment pleinement elle.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>Article 5</title>

<para>Vous n'êtes pas oblig d'accepter la présente Licence tant que vous ne l'avez pas signé. Cependant, rien d'autre ne vous accorde l'autorisation de modifier ou distribuer le Programme ou les ouvrages fonds sur lui. Ces actions sont interdites par la loi si vous n'acceptez pas la présente Licence. En conséquence, en modifiant ou distribuant le Programme (ou un ouvrage quelconque fond sur le Programme), vous signifiez votre acceptation de la présente Licence en le faisant, et de toutes ses conditions concernant la copie, la distribution ou la modification du Programme ou d'ouvrages fonds sur lui.</para>
</sect2>

<sect2 id="sect6" label="6">
<title>Article 6</title>

<para>Chaque fois que vous redistribuez le Programme (ou n'importe quel ouvrage fond sur le Programme), une licence est automatiquement concédée au destinataire par le concédant original de la licence, l'autorisant copier, distribuer ou modifier le Programme, sous réserve des présentes conditions. Vous ne pouvez imposer une quelconque limitation supplémentaire l'exercice des droits octroyés au titre des présentes par le destinataire. Vous n'avez pas la responsabilité d'imposer le respect de la présente Licence des tiers.</para>
</sect2>

<sect2 id="sect7" label="7">
<title>Article 7</title>

<para>Si, conséquemment une décision de justice ou l'allégation d'une transgression de brevet ou pour toute autre raison (non limite un problème de brevet), des obligations vous sont imposées (que ce soit par jugement, conciliation ou autre) qui contredisent les conditions de la présente Licence, elles ne vous excusent pas des conditions de la présente Licence. Si vous ne pouvez distribuer de manière satisfaire simultanément vos obligations au titre de la présente Licence et toute autre obligation pertinente, alors il en découle que vous ne pouvez pas du tout distribuer le Programme. Par exemple, si une licence de brevet ne permettait pas une redistribution sans redevance du Programme par tous ceux qui reçoivent une copie directement ou indirectement par votre intermédiaire, alors la seule façon pour vous de satisfaire la fois la licence du brevet et la présente Licence serait de vous abstenir totalement de toute distribution du Programme.</para>

<para>Si une partie quelconque de cet article est tenue pour nulle ou inopposable dans une circonstance particulière quelconque, l'intention est que le reste de l'article s'applique. La totalité de la section s'appliquera dans toutes les autres circonstances.</para>

<para>Cet article n'a pas pour but de vous induire transgresser un quelconque brevet ou d'autres revendications un droit de propriété ou contester la validité de la moindre de ces revendications; cet article a pour seul objectif de protéger l'intégrité du système de distribution du logiciel libre, qui est mis en oeuvre par la pratique des licences publiques. De nombreuses personnes ont fait de grandes contributions au large spectre de logiciels distribués par ce système en se fiant l'application cohérente de ce système; il appartient chaque auteur/donateur de décider si il ou elle veut distribuer du logiciel par l'intermédiaire d'un quelconque autre système et un concessionnaire ne peut imposer ce choix.</para>
Cet article a pour but de rendre totalement limpide ce que l'on pense tre une consquence du reste de la presente Licence.</para>

Article 8

Si la distribution et/ou l'utilisation du Programme est limite dans certains pays que ce soit par des brevets ou par des interfaces soumises au droit d'auteur, le titulaire originel des droits d'auteur qui decide de couvrir le Programme par la presente Licence peut ajouter une limitation gographique de distribution explicite qui exclue ces pays afin que la distribution soit permise seulement dans ou entre les pays qui ne sont pas ainsi exclus. Dans ce cas, la presente Licence incorpore la limitation comme si elle tait crite dans le corps de la presente Licence.</para>

Article 9

La Free Software Foundation peut, de temps autre, publier des versions rvises et/ou nouvelles de la Licence Publique Gnrale. De telles nouvelles versions seront similaires la presente version dans l'esprit mais pourront diffir dans le detail pour prendre en compte de nouvelles problmatiques ou inquitudes.</para>

Chaque version possde un numero de version la distinguant. Si le Programme precise le numero de version de la presente Licence qui s'y applique et une version ultriere quelconque, vous avez le choix de suivre les conditions de la presente version ou de toute autre version ultriere publie par la Free Software Foundation. Si le Programme ne specifie aucun numero de version de la presente Licence, vous pouvez choisir une version quelconque publie par la Free Software Foundation quelque moment que ce soit.</para>

Article 10

Si vous souhaitez incorporer des parties du Programme dans d'autres programmes libres dont les conditions de distribution sont differentes, crivez l'auteur pour lui en demander l'autorisation. Pour les logiciels dont la Free Software Foundation est titulaire des droits d'auteur, crivez la Free Software Foundation; nous faisons parfois des exceptions dans ce sens. Notre decision sera guide par le double objectif de preserver le statut libre de tous les drivs de nos logiciels libres et de promouvoir le partage et la rutilisation des logiciels gnral.</para>

ABSENCE DE GARANTIE

COMME LA LICENCE DU PROGRAMME EST CONCDE TITRE GRATUIT, AUCUNE GARANTIE NE S'APPLIQUE AU PROGRAMME, DANS LES LIMITES AUTORISES PAR LA LoI APPLICABLE. SAUF MENTION CONTRAIRE CRITIQUE, LES TITULAIRES DU DROIT D'AUTEUR ET/OU LES AUTRES PARTIES FOURNISSENT LE PROGRAMME TELQUEL, SANS AUCUNE GARANTIE DE QUELQUE NATURE QUE CE SOIT, EXPRESSE OU IMPICITE, Y COMPRI, MAIS SANS Y TRE LIMIT, LES
GARANTIES IMPLICITES DE MARCHANDABILIT ET D’ADQUATION UN OBJECTIF PARTICULIER.
VOUS ASSUMEZ LA TOTALIT DES RISQUES LIS LA QUALIT ET AUX PERFORMANCES DU
PROGRAMME. SI LE PROGRAMME SE RVLAIT DFECTUEUX, LE COT DE L’ENTRETIEN, DES
RPARATIONS OU DES CORRECTIONS NCESAIRES VOUS INCOMBENT INTRAMALEMENT.</para>
</sect2>

<sect2 id="sect12" label="12">
<title>Article 12</title>

<para>EN AUCUN CAS, SAUF LORSQUE LA LOI APPLICABLE OU UNE CONVENTION CRIT
L’EXIGE, UN TITULAIRE DE DROIT D’AUTEUR QUEL QU’IL SOIT, OU TOUTE PARTIE QUI POURRAIT
MODIFIER ET/OU REDISTRIBUER LE PROGRAMME COMME PERMIS CI-DESSUS, NE POURRAIT TRE
TENU POUR RESPONSABLE VOTRE GARD DES DOMMAGES, INCLUANT LES DOMMAGES
GNRIQUES, SPECIFIQUES, SECONDAIRES OU CONSUTIFS, RSLUTANT DE L’UTILISATION OU DE
L’INCAPACIT D’UTILISER LE PROGRAMME (Y COMPRIS, MAIS SANS Y TRE LIMIT, LA PERTE DE
DONNES, OU LE FAIT QUE DES DONNES SOIENT RENDUES IMPRCISES, OU LES PERTES PROUVES
PAR VOUS OU PAR DES TIERS, OU LE FAIT QUE LE PROGRAMME CHOUE INTORPER AVEC UN
AUTRE PROGRAMME QUEL QU’IL SOIT) MME SI LE DIT TITULAIRE DU DROIT D’AUTEUR OU LE
PARTI CONCERN A T Averti DE L’EVENTUALIT DE TELS DOMMAGES.</para>
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Se permite a todo el mundo copiar y distribuir copias literales de este documento de licencia, pero no se permite modificarlo.

Las licencias que cubren la mayor parte del software están diseñadas para quitarle a usted la libertad de compartirlo y modificarlo, las Licencias Públicas Generales de GNU pretenden garantizarle la libertad de compartir y modificar el software libre, para asegurar que el software es libre para todos sus usuarios.

Daniel Mustieles, daniel.mustieles@gmail.com

Rafael Palomino, rafaelus4@eresmas.net

Francisco Javier F. Serrador, serrador@cvs.gnome.org
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Cuando hablamos de software libre, estamos refiriéndonos a libertad, no a precio. Nuestras Licencias Públicas Generales están diseñadas para asegurarnos de que tenga la libertad de distribuir copias de software libre (y cobrar por ese servicio si quiere), de que reciba el código fuente o que pueda conseguirlo si lo quiere, de que pueda modificar el software o usar fragmentos de él en programas nuevos libres, y de que sepa que puede hacer todas estas cosas.

Esta licencia, la Licencia Pública General Menor (Lesser General Public Licence), se aplica a algunos paquetes de software diseñados específicamente tipicamente bibliotecas de la Free Software Foundation y de otros autores que deciden usarla. Usted puede usarla también, pero le sugerimos que piense primero cuidadosamente si esta licencia o la General Public Licence ordinaria, es o no la estrategia mejor a usar en un caso particular, basándose en las explicaciones siguientes.

Si distribuye copias de la biblioteca, sea gratuitamente, o a cambio de una contraprestación, debe dar a los receptores todos los derechos que tiene. Debe asegurarse de que ellos también reciben, o pueden conseguir, el código fuente. Si enlaza otro código con la biblioteca, debe proporcionar archivos objeto completos a los receptores, para que ellos puedan reenlazarlos con la biblioteca después de hacer cambios a la biblioteca y recompilarla. Y debe mostrarles estas condiciones de forma que conozcan sus derechos.

Protegemos sus derechos con la combinación de dos medidas: (1) Derechos de copia de la Biblioteca (copyright), y (2) le ofrecemos esta licencia, que le da permiso legal para copiar, distribuir y/o modificar la biblioteca.

Para proteger a cada uno de los distribuidores, queremos dejar muy claro que no existe garantía para la biblioteca libre. Además, si la biblioteca es modificada por alguien y se transmite, los receptores deberán saber que lo que ellos tienen no es la versión original, de forma que la reputación del autor original no se vea afectada por problemas que podrían ser introducidos por otros.
Finalmente, cualquier programa libre est constantemente amenazado por patentes sobre el software. Queremos evitar el peligro de que una compaa no pueda restringir efectivamente a los usuarios de un programa libre obteniendo una licencia restrictiva de un propietario de una patente. Para evitar esto, insistimos en que cualquier licencia de patente obtenida por una versin de la biblioteca deba ser consistente con la completa libertad de uso especificada en esta licencia.

La mayor de los programas de GNU, incluyendo algunas bibliotecas, estn cubiertos por la Licencia Licencia Pblica General ordinaria. Esta licencia, la GNU Licencia Pblica General Menor, se aplica a ciertas bibliotecas designadas, y es un poco diferente de la Licencia Pblica General. Usamos esta licencia para ciertas bibliotecas con el fin de permitir enlazar esas bibliotecas en programas no libres.

Cuando un programa est enlazado con una biblioteca, ya sea estticamente o usando una biblioteca compartida, la combinacin de los des es hablando legalmente un trabajo combinado, una derivacin de la biblioteca original. La Licencia Pblica General entonces permite dicho enlazado si la combinacin entera cumple con este criterio de libertad. La Licencia Pblica General Menor permite un criterio ms relajado para enlazar otro cdigo con la biblioteca.

Llamamos a esta licencia Licencia Pblica General Menor porque hace Menos para proteger la libertad del usuario que la Licencia Pblica General ordinaria. Tambin proporciona otros desarrolladores de software libre Menos de las ventajas respecto a competir con programas que no sean software libre. Estas desventajas son la razn por la que usamos la Licencia Pblica General para muchas bibliotecas. Sin embargo, la licencia Menor proporciona ventajas en ciertas circunstancias especiales.

Por ejemplo, en raras ocasiones puede haber una necesidad especial de fomentar lo ms ampliamente posible el uso de una determinada biblioteca, de forma que esta se convierta en un estndar. Para conseguir esto, se debe permitir a los programas no libres el uso de estas bibliotecas. Un caso ms frecuente es aquel en el que una biblioteca libre hace el mismo trabajo que el que realizan las bibliotecas no libres ms ampliamente usadas. En este caso, hay poco que ganar limitando la biblioteca nicamente al software libre, de manera que usamos la Licencia Pblica General Menor.

En otros casos, el permiso para usar una biblioteca determinada en programas no libres posibilita a un mayor numero de gente a usar una gran cantidad de software libre. Por ejemplo, el permiso para utilizar la biblioteca GNU C en programas no libres posibilita a mucha ms gente a usar al completo el sistema operativo GNU, as como su variante, el sistema operativo GNU/LINUX.

Aunque la Licencia Pblica General Menor es menos protectora para las libertades del usuario, asegura que el usuario de un programa que est enlazado con la biblioteca tiene la libertad y los medios para ejecutar ese programa usando una versin modificada de la biblioteca.

Los trminos y las condiciones exactas para la copia, distribucin y modificacin se indican a continuacin. Preste especial atencin a la diferencia entre un trabajo basado en la biblioteca y un trabajo que utiliza la biblioteca. El primero contiene cdigo derivado de la biblioteca, mientras que el ltimo debe estar unido con la biblioteca para ser ejecutado.
Este Acuerdo de Licencia se aplica a cualquier biblioteca de software u otro programa que contenga una notificación colocada por el poseedor del copyright o otra parte autorizada diciendo que puede distribuirse bajo los términos de la licencia Licencia Pública General Menor (también llamada "esta Licencia"). Cada licenciatario se referido como "Usted".

Una biblioteca significa una colección de funciones y/o datos de software, preparados para ser enlazados de una forma cómoda con programas de aplicación (que usan algunas de estas funciones y datos) para formar ejecutables.

La Biblioteca en lo que sigue, se refiere a cualquier trabajo o biblioteca de software que haya sido distribuido bajo estos términos. Un trabajo basado en la Biblioteca significa que, o la Biblioteca o cualquier trabajo derivado, estén bajo la ley de derechos de autor: es decir, un trabajo que contiene a la Biblioteca o a una parte de ella, ya sea de forma literal o con modificaciones y/o traducida de forma clara a otro idioma (mas abajo se incluye la traducción con restricción en el término "modificación").

El código fuente para un trabajo se refiere a la forma preferida del trabajo para hacer modificaciones en él. Para una Biblioteca, el código fuente completo significa todos los códigos fuente para todos los módulos que contenga la biblioteca, más cualquier fichero de definición de interfaz asociado, y los scripts asociados para controlar la compilación y la instalación de la biblioteca.

Otras actividades que no sean la copia, distribución y modificación no se encuentran cubiertas por esta Licencia; se encuentran fuera de su objetivo. La opción de ejecutar un programa utilizando la Biblioteca no está restringida, y el resultado de dicho programa esta cubierto únicamente si su contenido constituye un trabajo basado en la Biblioteca (independientemente del uso de la Biblioteca como herramienta para escribirlo). Que esto sea cierto va a depender de lo que haga la Biblioteca y de lo que haga el programa que utiliza la Biblioteca.

Puede copiar y distribuir copias literales del código fuente completo de la Biblioteca tal y como la recibe, en cualquier medio, a condición de que usted publique de forma manifiesta y apropiada, en cada una de las copias, un aviso conveniente de derechos de autor y una renuncia de garantía; mantenga intactas todas las notificaciones que se refieran a esta Licencia y a la ausencia de cualquier garantía; y distribuya una copia de esta Licencia junto con la Biblioteca.

Puede cobrar un importe por el acto físico de trasvasar una copia y puede, a opción suya, ofrecer una protección de garantía a cambio de un importe.

Puede modificar su copia o copias de la Biblioteca o de cualquier parte de ella, formando así un trabajo basado en la Biblioteca, y copiar y distribuir tales modificaciones o trabajo bajo los términos de la
Sección 1 de arriba, siempre que usted también cumpla con todas estas condiciones:

1. El trabajo modificado debe ser por sí mismo una biblioteca.
2. Debe hacer que los ficheros modificados lleven avisos llamativos, declarando que usted cambió los ficheros y la fecha de cualquier cambio.
3. Debe hacer que a todo el trabajo le sea concedida una licencia, sin cargo a terceras partes, bajo los términos de esta Licencia.
4. Si una facilidad en la Biblioteca modificada se refiere a una funcionalidad o a una tabla de datos, que deba ser suministrada por un programa de aplicación que usa la facilidad de otra manera que como un argumento pasado cuando la facilidad es invocada, entonces debe hacer un esfuerzo de buena fe para asegurar que, en caso de que una aplicación no suministre tal función o tabla, la facilidad aun funcione y haga que cualquier parte de su finalidad siga siendo significativa.

Estos requisitos se aplican al trabajo modificado como un todo. Si hay secciones identificables de ese trabajo que no derivan de la Biblioteca, y se pueden considerar razonablemente independientes y trabajos separados, por ellas mismas, entonces esta Licencia y sus términos, no se aplican a aquellas secciones cuando usted los distribuya como trabajos separados. Pero cuando usted distribuya las mismas secciones como parte de un todo, que sea un trabajo basado en la Biblioteca, la distribución del todo debe estar bajo los términos de esta Licencia cuyos permisos para otros licenciatarios se extienden a todo el conjunto, y as para todas y cada una de las partes, sin tener en cuenta quién las escribió.

Así pues, la intención de esta sección no es exigir derechos o discutir los derechos de un trabajo escrito completamente por usted; ms bien, la intención es ejercer el derecho a controlar la distribución de trabajos derivados o colectivos basados en la Biblioteca.

Además, la mera agregación de otro trabajo no basado en la Biblioteca con la Biblioteca (o con un trabajo basado en la Biblioteca) en un volumen de almacenamiento en algún medio de distribución, no pone al otro trabajo bajo los objetivos de esta Licencia.
Usted puede optar por aplicar a una determinada copia de la Biblioteca, los trminos de la Licencia Pblica General GNU ordinaria en vez de los de esta Licencia. Para hacer esto, debe alterar todas las notificaciones que se refieren a esta Licencia, para que se refieran a la Licencia Pblica General GNU ordinaria, versin 2, en vez de a esta Licencia. (Si ha aparecido una versin ms reciente que la versin 2 de la Licencia Pblica General GNU ordinaria, entonces, si quiere, puede especificar esa nueva versin). No haga ningn otro cambio en estas notificaciones.

Una vez que se haya hecho este cambio en una copia dada, es irreversible para esa copia, de modo que la Licencia Pblica General GNU ordinaria se aplica a todas las copias siguientes y a trabajos derivados realizados a partir de esa copia.

Esta opcin es til cuando usted quiere copiar parte del cdigo de la Biblioteca dentro de un programa que no es una biblioteca.

Puede copiar y distribuir la Biblioteca (o una porcิน o derivado de ella, bajo la Seccin 2) en cdigo objeto o forma ejecutable bajo los trminos de las Secciones 1 y 2 arriba indicadas, siempre que la acompae con el correspondiente cdigo fuente legible (a maquina) completo, que debe ser distribuido bajo los trminos de las Secciones 1 y 2 de arriba, en un medio usado habitualmente para el intercambio de software.

Si la distribucin del cdigo objeto se hace ofreciendo el acceso a su copia desde un lugar designado, entonces ofreciendo un acceso equivalente a la copia del cdigo fuente desde el mismo sitio se satisfacen los requisitos para la distribucin del cdigo fuente, aunque las terceras partes no estn obligadas a copiar el cdigo fuente junto con el cdigo objeto.

Un programa que no contiene derivado de ninguna porcิน de la Biblioteca, pero est diseado para trabajar con la Biblioteca al ser compilado o enlazado con ella, se denomina un trabajo que usa la Biblioteca. Dicho trabajo, por separado, no es un trabajo derivado de la Biblioteca, y por tanto cae fuera del mbito de esta Licencia.

Sin embargo, enlazar un trabajo que usa la Biblioteca con la Biblioteca, crea un ejecutable que es un derivado de la Biblioteca (porque contiene porciones de la Biblioteca). En vez de un trabajo que usa la Biblioteca, El ejecutable est por tanto cubierto por esta Licencia. La Seccin 6 expone los trminos para la distribucin de tales ejecutables.

Cuando un trabajo que usa la Biblioteca utiliza material de un fichero cabecera que forma parte de la Biblioteca, el cdigo objeto del trabajo puede ser un trabajo derivado de la Biblioteca aunque el cdigo fuente no lo sea. Que esto sea cierto es especialmente significativo si el trabajo puede ser enlazado sin la Biblioteca, o si el trabajo es por si mismo una biblioteca. El lmite para que esto sea cierto no est definido con precisin por la ley.
Si dicho fichero objeto utiliza solo parámetros numéricos, esquema de estructura de datos, y pequeñas macros y pequeñas funciones en línea (diez líneas o menos de longitud), entonces el uso del fichero objeto no está restringido, sin tener en cuenta si esto es legalmente un trabajo derivado. (Ejecutables que contengan este código objeto y porciones de la Biblioteca estarán aún bajo la <link linkend="sect6">Sección 6</link>).</para>

En caso contrario, si el trabajo es un derivado de la Biblioteca, usted puede distribuir el código objeto del trabajo bajo los términos de la <link linkend="sect6">Sección 6</link>. Cualquier ejecutable que contenga ese trabajo también cae bajo la <link linkend="sect6">Sección 6</link>, esté o no enlazado con la Biblioteca.</sect2>

Como excepción a las secciones anteriores, puede también combinar o enlazar un <quote>trabajo que usa la Biblioteca</quote> con la Biblioteca para producir un trabajo que contenga porciones de la Biblioteca, y distribuir ese trabajo bajo los términos de su elección, siempre que los términos permitan la modificación del trabajo por el uso propio del cliente y la ingeniería inversa para la depuración de tales modificaciones.</para>

Debe incluir con cada copia del trabajo una notificación de que la Biblioteca se utiliza en línea de la Biblioteca y su uso estén cubiertos por esta Licencia. Debe suministrar una copia de esta Licencia. Si el trabajo, durante su ejecución, muestra notas de derechos de autor, usted debe incluir entre ellas las notas de derechos de autor de la Biblioteca, así como una referencia que dirija al usuario a la copia de esta Licencia. Además, usted debe hacer una de estas cosas: <orderedlist numeration="loweralpha">
  <listitem>
    <para id="sect6a">Acompañar el trabajo con el correspondiente código fuente legible (a máquina) completo de la Biblioteca, incluyendo cualquier cambio que fuera utilizado en el trabajo (el cual debe ser distribuido bajo las Secciones <link linkend="sect1">1</link> y <link linkend="sect2">2</link> de arriba); y, si el trabajo es un ejecutable enlazado con la Biblioteca, con el completo, legible (a máquina) <quote>trabajo que usa la Biblioteca</quote>, como código objeto y/o código fuente, de forma que el usuario pueda modificar la Biblioteca y reenlazar entonces para producir un ejecutable modificado que contenga la Biblioteca modificada. (Se entiende que el usuario que cambia los contenidos de los archivos de definiciones en la Biblioteca no necesariamente ser capaz de recompilar la aplicación para usar las definiciones modificadas).</para>
  </listitem>
  <listitem>
    <para>Acompañar el trabajo con una oferta escrita, válida por tres años al menos, para proporcionar a dicho usuario los materiales especificados en la <link linkend="sect6a">Subsección 6a</link> de arriba, por un precio no superior al coste de realizar esta distribución.</para>
  </listitem>
  <listitem>
    <para>Acompañar el trabajo con una oferta escrita, válida por tres años al menos, para proporcionar a dicho usuario los materiales especificados en la <link linkend="sect6a">Subsección 6a</link> de arriba, por un precio no superior al coste de realizar esta distribución.</para>
  </listitem>
  <listitem>
    <para>Si la distribución del trabajo se hace ofreciendo el acceso a la copia desde un lugar determinado, ofrecer un acceso equivalente para la copia de los materiales especificados anteriormente desde el mismo lugar.</para>
  </listitem>
</sect2>
<listitem><para>Verificar que el usuario ha recibido ya una copia de estos materiales o que usted ya le ha enviado una copia a este usuario.</para></listitem><listitem><para>Para un ejecutable, la forma requerida del <quote>trabajo que usa la Biblioteca</quote> debe incluir todos los programas de datos y utilidades necesitados para reproducir el ejecutable desde l. Sin embargo, como una excepción especial, los materiales a distribuir no necesitan incluir nada de lo que es distribuido normalmente (ya sea en forma binaria o fuente) con los componentes principales (compilador, ncleo, y dems) del sistema operativo en el cual funciona el ejecutable, a menos que el componente por l mismo acompa al ejecutable.</para></listitem><para>Puede suceder que este requisito contradiga las restricciones de la licencia de otras bibliotecas propietarias que no acoman normalmente al sistema operativo. Dicha contradicción significa que no puede usar estas y la Biblioteca juntas en un ejecutable que usted distribuya.</para></sect2><sect2 id="sect7" label="7"><title>Sección 7</title><para>Puede colocar facilidades de biblioteca, que son un trabajo basado en la Biblioteca, juntas en una sola biblioteca junto con otras facilidades de biblioteca no cubiertas por esta Licencia, y distribuir dicha biblioteca combinada, con tal que la distribución separada del trabajo basado en la Biblioteca y de las otras facilidades de biblioteca est, por lo dems, permitida, y con tal que usted haga estas dos cosas:</para><orderedlist numeration="loweralpha"><listitem><para>Acompañar la biblioteca combinada con una copia del mismo trabajo basado en la Biblioteca, no combinado con cualquier otra facilidad de biblioteca. Esto debe ser distribuido bajo los términos de las Secciones superiores.</para></listitem><listitem><para>Incluir una notificación destacada con la biblioteca combinada del hecho de que parte de ella es un trabajo basado en la Biblioteca, y explicando donde encontrar las formas sin combinar acompañantes del mismo trabajo.</para></listitem></orderedlist></sect2><sect2 id="sect8" label="8"><title>Sección 8</title><para>Usted no puede copiar, modificar, sublicenciar o distribuir la Biblioteca salvo por lo permitido expresamente por esta Licencia. Cualquier otro intento de copia, modificación, sublicenciamiento o distribución de la Biblioteca es nulo, y dar por terminados automáticamente sus derechos bajo esa Licencia. Sin embargo, los terceros que hayan recibido copias, o derechos, de usted bajo esta Licencia no vern terminadas sus licencias, siempre que
permanezcan en total conformidad con ella.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Seccin 9</title>

<para>No se le exige que acepte esta Licencia, puesto que no la ha firmado. Sin embargo, ninguna otra cosa le
concede a usted el permiso para modificar o distribuir la Biblioteca o sus trabajos derivados. Estas acciones estn
prohibidas por ley si usted no acepta esta Licencia. Por tanto, al modificar o distribuir la Biblioteca (o cualquier
trabajo basado en la Biblioteca), usted indica su aceptacin de esta Licencia para hacerlo, y todos sus trminos y
condiciones para copiar, distribuir o modificar la Biblioteca o los trabajos basados en ella.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Seccin 10</title>

<para>Cada vez que usted distribuye la Biblioteca (o cualquier trabajo basado en la Biblioteca), el receptor
recibe automaticamente una licencia del titular original de la Licencia para copiar, distribuir, enlazar con o modificar
la Biblioteca sujeto a estos trminos y condiciones. Usted no debe imponer ninguna restriccin posterior sobre el
ejercicio de los receptores de los derechos otorgados aquí mencionados. Usted no es responsable de imponer
conformidad con esta Licencia por terceras partes.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Seccin 11</title>

<para>Si, como consecuencia de un juicio o infraccin de patente o por cualquier otra razn (no limitada a asuntos
de patente) a usted se le imponen condiciones (sea orden judicial, acuerdo u otras) que contradigan las condiciones
de esta Licencia, eso no le dispensa de las condiciones de esta Licencia. Si usted no puede distribuirla de tal forma
que satisfaga simultaneamente sus obligaciones con respecto a esta licencia y cualquier otras obligaciones
pertinentes, entonces como consecuencia, no debe en absoluto distribuir la Biblioteca. Por ejemplo, si una licencia
de patente no permitiera la redistribucin libre de derechos de autor de la Biblioteca a todo aquellos que reciben
copias directamente o indirectamente a travs de usted, entonces la nica forma en la que podra satisfacer tanto esto
como esta Licencia sera abstenerse completamente de la distribucin de la Biblioteca.</para>

<para>Si cualquier parte de esta seccin se considera invalida o inaplicable bajo cualquier circunstancia particular,
se intentar aplicar el balance de la seccin, y en otras circunstancias se intentar aplicar la seccin como un
todo.</para>

<para>No es el propsito de esta seccin el inducirle a usted a infringir cualquier demanda de derechos de patente u
otros derechos de propiedad o el impugnar la validez de tales demandas; esta seccin tiene el nico propsito de
proteger la integridad del sistema de distribucin de software libre, lo cual se lleva a cabo mediante prcticas de
licencia pblica. Mucha gente ha hecho generosas contribuciones al amplio rango de software distribuido a travs de
este sistema, confiando en la firme aplicacin de este sistema; es decisin de autor/donante decidir si el o ella quiere
distribuir software a travs de cualquier otro sistema y una licencia no puede imponer esa eleccin.</para>

<para>Esta seccin tiene el propsito de esclarecer a fondo lo que se cree ser una consecuencia del resto de esta
licencia.</para>
Si la distribución y/o uso de la Biblioteca está restringida en ciertos países mediante patentes o interfaces con derechos de autor, el propietario de los derechos de autor originales, el cual puso la Biblioteca bajo esta Licencia, puede añadir una limitación a la distribución geográfica explícita excluyendo estos pases, de forma que esta distribución se permita solamente en o entre pases no excluidos. En tal caso, esta Licencia incorpora la limitación como si estuviera escrita en el cuerpo de esta Licencia.

La Free Software Foundation puede publicar versiones nuevas y revisadas de la Licencia Licencia Pública General Menor de vez en cuando. Dichas versiones nuevas serán similares en espíritu a la presente versión, pero pueden diferir en detalles para solucionar nuevos problemas o preocupaciones.

Cada versión tiene un número de versión que la distingue. Si la Biblioteca especifica que se aplica un número de versión en particular de esta Licencia y cualquier versión posterior, usted tiene la opción de seguir los términos y condiciones de la versión especificada o cualquiera posterior que haya sido publicada por la Free Software Foundation. Si la Biblioteca no especifica un número de versión de esta Licencia, puede escoger cualquier versión que haya sido publicada por la Free Software Foundation.

Si quiere incorporar partes de la Biblioteca en otros programas libres cuyas condiciones de distribución son incompatibles con estos, escriba al autor para pedirle permiso. Para el software cuyos derechos de autor pertenecen a la Free Software Foundation, escriba a la Free Software Foundation; nosotros hacemos a veces excepciones a esto. Nuestra decisión se guiará generalmente por los dos objetivos de preservar el estatus libre de todo lo derivado de nuestro software libre y de promover la compartición y reutilización de software.

DEBIDO A QUE LA BIBLIOTECA ESTÁ LICENCIADA LIBRE DE CARGO, NO HAY GARANTÍA para LA BIBLIOTECA EN LA EXTENSÍN PERMITIDA POR LA LEY APLICABLE. EXCEPTO CUANDO SE ESTABLEZCA DE OTRO MODO POR ESCRITO, LOS POSEEDORES DEL DERECHO DE AUTOR Y/O OTRAS PARTES SUMINISTRAN LA BIBLIOTECA <quote>TAL CUAL</quote> SIN GARANTÍA DE NINGUNA CLASE, YA SEA DE FORMA EXPRESA O IMPLÍCITA, INCLUYENDO, PERO NO LIMITADA A, LAS GARANTÍAS IMPLÍCITAS DE COMERCIABILIDAD Y ADECUACIÓN PARA UN PROPÓSITO PARTICULAR. TODO EL RIESGO EN CUANTO A CALIDAD Y EJECUCIÓN DE LA BIBLIOTECAS ES SUYO. SI LA BIBLIOTECA RESULTARA ESTAR DEFECTUOSA, USTED ASUME EL COSTE DE TODO EL
BAJO NINGÚN CONCEPTO, A MENOS QUE SEA REQUERIDO POR LA LEY APLICABLE O DE ACUERDO A UN ESCRITO, CUALQUIER POSEEDOR DE DERECHOS DE AUTOR O CUALQUIER OTRA PARTE QUE PUEDA MODIFICAR Y/O REDISTRIBUIR LA BIBLIOTECA COMO SE PERMITE ARRIBA, SER RESPONSABLE CON USTED POR DAOS, INCLUYENDO CUALQUIER DAO GENERAL, ESPECIAL, ACCIDENTAL O CONSECUENTE ORIGINADO POR EL USO O INCAPACIDAD DE USAR LA BIBLIOTECA INCLUYENDO PERO NO LIMITANDO, A LAS PRDIDAS DE DATOS O A LA PRODUCCIÓN DE DATOS INCORRECTOS, O PRDIDAS SUFRIDAS POR USTED O TERCERAS PARTES O UN FALLO DE LA BIBLIOTECA PARA FUNCIONAR CON CUALQUIER OTRO SOFTWARE) INCLUSO SI TAL TITULAR U OTRA PARTE HA SIDO NOTIFICADA DE LA POSIBILIDAD DE TALES DAOS.
De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public License r tvrtom skapad fr att garantera din frihet att dela med dig av och frmdra fri programvara - fr att frskra att programvaran r fri fr alla dess anvndare.

De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public Licenses (nedan kallade GPL) r i stllet avsedda att garantera din frihet att dela med dig av och frmdra fri programvara att frskra att programvaran r fri fr alla dess anvndare.

De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public Licenses (nedan kallade GPL) r i stllet avsedda att garantera din frihet att dela med dig av och frmdra fri programvara att frskra att programvaran r fri fr alla dess anvndare.

De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public Licenses (nedan kallade GPL) r i stllet avsedda att garantera din frihet att dela med dig av och frmdra fri programvara att frskra att programvaran r fri fr alla dess anvndare.
Denna licens, Lesser General Public License, gäller vissa specialutförmat programpaket särskilt bibliotek från Free Software Foundation och andra upphovsmän som bestämmer sig för att använda licensen. Du kan också använda licensen, men vi fremslår att du utifrån beskrivningen nedan funderar på om det r den hr licensen eller ordinarie GPL som r den bsta strategin fr dig.

När vi talar om fri programvara syftar vi p frihet att använda den, inte pris. Vra GPL r skapade fr att garantera din rätt att distribuera kopior av fri programvara (och ta betalt fr tjänsten om du nskar), att garantera att du fr kllkoden eller kan f den om du s nskar, att garantera att du kan ndra i programvaran och använda delar av den i ny fri programvara samt att garantera att du r informerad om dessa rttigheter.


Om du exempelvis distribuerar kopior av biblioteket, gratis eller mot en avgift, mste du ge mottagaren alla de rttigheter du sjlv har. Du mste ocks se till att mottagaren fr eller kan f kllkoden. Om du lnkar annan kod till biblioteket mste du tillhandahälla fullständiga objektfiler till mottagaren s att han/hon kan terlnka dem med biblioteket efter att ha gjort ndringar i biblioteket och kompilerat om det. Du mste ven visa dessa licensvillkor fr mottagaren s att han/hon knner till sina rttigheter.

Vi skyddar dina rttigheter i tv steg: (1) upphovsrätt till biblioteket och (2) dessa licensvillkor som ger dig laglig tilltjan till att kopiera, distribuera och/eller ndra biblioteket.

Fr varje enskild distributrs skerhet vill vi frtydliga att det inte lmnas ngra garantier fr det fria biblioteket. Om biblioteket ndras av ngon annan n upphovsmannen och vidareverlts, br mottagaren knna till att han/hon inte har originalversionen och att ndringar av och felaktigheter i biblioteket inte skall belasta den ursprunglige upphovsmannen.

Slutligen skall nmnas att all fri programvara hotas av programvarupatent. Vi vill undvika att fretdag kan fhindra anvndningen av fri programvara genom att skaffa en begränsande licens frn en patentinnevavare. Vi insisterar drfr p att alla patentlicenser som erhlls fr en version av biblioteket mste vara freliga med den fulla nytjandefriheten i den hr licensen.

De flesta GNU-program, inklusive vissa bibliotek, teks av ordinarie GPL. Den hr licensen, GNU Lesser General Public License (nedan kallad LGPL), gäller vissa specificerade bibliotek och skiljer sig avsevnt frn GPL. Vi anvnder den hr licensen fr vissa bibliotek i syfte att tillta lnkning av biblioteken till icke-fria programvaror.

Enligt ordinarie GPL tills drfr sdan lnkning endast om hela kombinationen verensstimmer med kriterierna fr fri programvara. LGPL tillter mer upplagnade kriterier fr lnkning av annan kod till biblioteket.

Vi kallar denna licens begrensad eftersom skyddet av anvndarens frihet r mindre n genom ordinarie GPL. Den ger också utvecklare av fri programvara frie frdelar jmfrt med konkurrerande icke-fria program. Det r dessa nackdelar som r orsaken till att vi behller GPL fr mga bibliotek. Den begrensade licensen medfr dock frdelar under vissa speciella omständigheter.
I slynta fall kan det finnas särskilt behov av att uppmuntra bredast möjliga användning av ett visst bibliotek satt det de facto blir standard. I syfte att uppn detta mste icke-fria program tilltas använda biblioteket. Vanligare r ett fritt bibliotek utför samma uppgift som ofta använda icke-fria bibliotek. I det senare fallet finns det inte mycket att vinna p att begrnas det fria biblioteket till fri programvara enbart, s vi anvnder d den begrnade licensen.</para>

I andra fall ger tilltelse att använda ett visst bibliotek i icke-fria program fler människor möjlighet att använda en stor mängd fria programvaror. Som exempel kan nämnas att tilltelse att använda biblioteket GNU C i icke-fria program, gr det möjligt fr fler personer att använda hela GNU-operativsystemet eller GNU/Linux-operativsystemet.</para>

Ven om den begrnade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som r inkat till biblioteket har friheten och möjligheten att kras programmet via en ndrad version av Biblioteket.</para>

De exakta villkoren och frutstningarna fr att kopiera, distribuera och ndra programvaran beskrivs nedan. Observera skillnaden mellan ett verk r <quote>baserat p biblioteket</quote> och ett <quote>verk som anvnder biblioteket</quote>. Det frstnmda innehller koden som hrlets ur biblioteket medan det senare mste kombineras med biblioteket fr att kras.</para>

Ven om den begrnade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som r Inkat till biblioteket har friheten och möjligheten att kras programmet via en ndrad version av Biblioteket.</para>

Ven om den begrnade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som r Inkat till biblioteket har friheten och möjligheten att kras programmet via en ndrad version av Biblioteket.</para>

Ven om den begrnade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som r Inkat till biblioteket har friheten och möjligheten att kras programmet via en ndrad version av Biblioteket.</para>

Ven om den begrnade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som r Inkat till biblioteket har friheten och möjligheten att kras programmet via en ndrad version av Biblioteket.</para>

Ven om den begrnade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som r Inkat till biblioteket har friheten och möjligheten att kras programmet via en ndrad version av Biblioteket.</para>

Ven om den begrnade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som r Inkat till biblioteket har friheten och möjligheten att kras programmet via en ndrad version av Biblioteket.</para>

Ven om den begrnade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som r Inkat till biblioteket har friheten och möjligheten att kras programmet via en ndrad version av Biblioteket.
och vad programmet som använder Biblioteket utför.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Paragraf 1</title>
<para>Du kan kopiera och distribuera exakta kopior av Bibliotekets fullständiga källkod i den form du mottagit det, oavsett medium, frutsatt att du tydligt och korrekt p varje kopia publicerar en riktig upphovsrättsklausul och garantifriskrivningsklausul, vidhåller alla hänvisningar till Licensen och till alla garantifriskrivningar samt distribuerar en kopia av Licensen tillsammans med Biblioteket.\</para>

<para>Du kan ta ut en avgift fr proceduren att verfna en kopia och du kan erbjuda garanti mot en avgift om du s nskar.\</para>

</sect2>

<sect2 id="sect2" label="2">
<title>Paragraf 2</title>
<para>Du kan ndra din kopia eller dina kopior av Biblioteket eller delar av det och p s stt skapa ett verk baserat p Biblioteket. Du kan ven kopiera och distribuera dessa ndringar eller verk enligt villkoren i \link linkend="sect1"\paragraf 1\</link ovan, under frutsättning att ven fljande villkor r uppfyllda: \orderedlist numeration="loweralpha">
<li><para>Det ndrade verket mste i sig sjlv vara ett programvarubibliotek.\</para>
</liitem>
<li><para>De ndrade filerna mste innehlla tydlig information om att du har ndrat filerna och vilket datum dessa ndringar utfördes.\</para>
</liitem>
<li><para>Hela verket mste licensieras utan kostnad till alla tredjemn enligt villkoren i Licensen.\</para>
</liitem>
<li><para>Om en modul i det ndrade Biblioteket hänvisar till en funktion eller en datatabell som skall levereras med ett applikationsprogram som använder den modulen, annat n som ett argument nr modulen anropas, mste du frska att, i hndelse av att en applikation inte tillhandahaller funktionen eller tabellen, modulen nd fungerar och utför det den huvudsakligen syftar till.\</para>
</liitem>
<li><para>(Exempelvis har en funktion i ett bibliotek som skall berkna kvadratrtter ett klart och vldefinierat syfte oberoende av applikationen. Drf krvs att samtliga applikationsfunktioner och -tabeller som anvnds av denna funktion, enligt paragraf 2d, mste vara valfr: om applikationen inte tillhandahaller det mste kvadratrotsfunktionen nd berkna kvadratrtter.)\</para>
</liitem>
<li><para>Dessa krav gller det ndrade verket i dess helhet. Om identifierbara delar av verket inte hrrr frn Biblioteket och rimligen kan anses fristende och separata verk gller inte licensvillkoren i dessa delar nr de distribueras som separata verk. Om samma delar distribueras som en del av en helhet som innehller verk baserat p Biblioteket, mste distributionen i sin helhet ske enligt villkoren i Licensen. Licensen skall i sdant fall glla fr andra licensinnehavare fr hela verket och dmed till varje del av Biblioteket oavsett vem som r upphovsman till de olika delarna.\</para>
</liitem>
</orderedlist>
</para>

</sect2>
Avsikten med denna paragraf r inte att hvda rttigheter eller ifrgastta dina rttigheter till ett verk som skrivits helt av dig. Syftet r i stlet att utva rtten att kontrollera distributionen av hrledda verk eller kombinerade verk baserade p Biblioteket.</para>

Om det p ett lagrings- eller distributionsmedium finns ett annat verk som inte baseras p Biblioteket (eller ett verk baserat p Biblioteket) tillsammans med Biblioteket omfattas inte det andra verket av Licensen.</para>

Du kan vlja att tillmpa villkoren i GNU GPL i stlet fr den hr Licensen fr en viss kopia av Biblioteket. I syfte att gra detta mste du ndra hnvisingar i upphovsrttsklausulerna till GNU GPL, version 2 istllet fr den hr Licensen. (Om det existerar en nyare version av GNU GPL n version 2, kan du ange den versionen i stlet.) Du fr inte gra ngra andra ndringar i upphovsrttsklausulerna.</para>

Nr ndringen har genomfrts i en viss kopia, r den oterkallelig fr denna kopia, s att GNU GPL gller alla fljande kopior och hrledda verk som skapas frn den kopian.</para>

Detta alternativ r anvndbart nr du vill kopiera delar av Bibliotekets kod till ett program som inte r ett bibliotek.</para>

Du kan kopiera och distribuera Biblioteket (eller del av det eller verk hrledda ur Biblioteket enligt paragraf 2) i objektkod eller krbar form enligt villkoren i paragraf ovan under frutsttning att du bifogar den kompletta maskinslbara kllkoden, vilken mste distribueras i enlighet med paragraf ovan, p ett medium som i allmnhet anvnds fr utbyte av programvara.</para>

Om distribution av objektkod utfrs genom att erbjuda tillgng till att kopiera den frn en bestmd plats skall motsvarande tillgng till att kopiera kllkoden frn samma plats rknas som distribution av kllkoden, ven om tredjeman inte behver kopiera kllkoden tillsammans med objektkoden.</para>

Ett program som inte innehller del som hrfr frn Biblioteket, men r skapat fr att arbeta med Biblioteket genom att kompileras eller lnkas med det, kallas ett verk som anvnder Biblioteket. Ett sdant verk r i sig inte ett hrlett verk av Biblioteket och faller utanfr licensens rekvid.
Dremot r en lnkning av ett "verk som anvnder Biblioteket" med Biblioteket till en krbar fil en hrdledning av Biblioteket (eftersom det innehll delar av Biblioteket) snarare nn ett "verk som anvnder Biblioteket". Den krbara filen tcks i sdant fall av Licensen. I linkend="sect6" paragraf 6 beskrivs villkoren fr distribution av sdana krbara filer.

Nr ett "verk som anvnder Biblioteket" anvnder material frn en etikettfil som ingr i Biblioteket kan objektkoden fr verket vara ett hrllett verk ur Biblioteket ven om kllkoden inte r det. Denna skillnad r srskilt viktig om verket kan lkas utan Biblioteket eller om verket i sig r ett bibliotek. Var grnsen gr fr att detta skall vara ett faktum r inte exakt definierat i lagstiftningen.

Om en sdan objektfil endast anvnder numeriska parametrar, datastrukturlayouter, accessor-funktioner, korta makron och kortare inline-funktioner (tio rader eller kortare) r anvndningen av objektfilen obegrnsad, oavsett om det lagligt sett ett ett hrllett verk. (Krbara filer som innehller objektkoden samt delar av Biblioteket faller nd under linkend="sect6" paragraf 6).)

Om verket r en hrdledning ur Biblioteket, kan du distribuera objektkoden fr verket enligt villkoren i linkend="sect6" paragraf 6. Samtliga krbara filer som innehller det verket faller ocks under linkend="sect6" paragraf 6, oavsett om de r lnkade direkt till Biblioteket eller inte.

Undantag frn paragraferna ovan kan gras fr kombination eller lnkning av ett "verk som anvnder Biblioteket" med Biblioteket fr att skapa ett verk som innehller delar av Biblioteket samt distribution av verket enligt andra villkor, under frutssttning att villkoren tillter ndringar i verket fr kundens egen nkning och omvnt en miljhet att ta bort ndringarna.

Varje kopia av verket mste tfjas av ett tydligt meddelande att Biblioteket anvnds i verket och att Biblioteket och dess anvndning tcks av den hr Licensen. Du mste bifoga en kopia av Licensen. Om verket under knning visar upphovsrtsklausuler mste du ven inkludera upphovsrtsklausuler fr Biblioteket samt en referens till kopian av denna Licens. Du mste ven gra en av fljande saker: 

1. Bifoga den kompletta kllkoden fr Biblioteket i maskinlsbar form inklusive eventuella ndringar som anvnts i verket (vilka skall distribueras enligt paragraf "sect1" 1 och "sect2" 2 ovan) samt, om verket r en krbar fil lnkad till Biblioteket, det kompleta maskinlsbara verket som anvnder Biblioteket som objektkod och/eller kllkod, s att anvndaren kan ndra Biblioteket och sedan trlka det fr att skapa en frndrad krbar fil innehllande det ndrade Biblioteket. (Detta beror p att anvndaren som ndrar innehlet av definitionsfilerna i Biblioteket kanske inte kan kompilera om applikationen fr att anvndna de ndrade definitionerna.)

2. Anvnda en Implig delad biblioteksfunktion fr lnkning med Biblioteket. En Implig funktion r en som (1) under knningen anvnder en redan befintlig kopia av biblioteket i stilet fr att kopiera biblioteksfunktioner till den krbara filen och (2) funger korrekt med en ndrad version av biblioteket, om anvndaren installerar en, s lnge den ndrade versionen r grnssnittskompatibel med versionen som verket skapades fr.
Bifoga ett skriftligt erbjudande, gällande i minst tre år, att ge samma användare materialen upprknade i sekt6a ovan, mot en avgift som inte r högre n sjlvkostnaden fr distributionen.

Om distributionen av verket sker genom erbjudande av tillgng till kopiering fn en bestmd plats, erbjudas motsvarande tillgng att kopiera de ovan nmnda materialen fn samma plats.

Om distributionen av verket sker genom erbjudande av tillgng till kopiering fn en bestmd plats, erbjudas motsvarande tillgng att kopiera de ovan nmnda materialen fn samma plats.

Kontrollera att anvndaren redan har mottagit en kopia av materialen eller att du redan har skickat en kopia till denna anvndare.

Fr krbara filer mste verket som anvnder Biblioteket innehlla samtliga data- och hjlpprogram som behvs fr att skapa en krbar fil fn den. Ett undantag kan dock gras fr material som normalt distribueras, antingen i binr form eller kllkod, med huvudkomponenterna (kompilator, krna osv.) i vilket den krbara filen krs, svida inte denna komponent medfljer den krbara filen.

Det kan intrffa att detta krav motsger licensbegrnsningarna i andra patenterade bibliotek som normalt inte medfljer operativsystemet. Sdana begrnsningar inneb r att du inte kan anvnda de patenterade biblioteken samtidigt med Biblioteket i en krbar fil som du distribuerar.

Du kan placera biblioteksfunktioner som r ett verk baserat p Biblioteket sida vid sida i ett enskilt bibliotek tillsammans med andra biblioteksfunktioner som inte tcks av Licensen, och distribuera ett sdant kombinerat bibliotek undran frutsttning att separat distribution av verket baserat p Biblioteket och av de andra biblioteksmoduleerna r tilltet, samt under frutsttning att du gr ngot av fljande:

Bifogar en kopia av samma verk baserat p Biblioteket, men skild fn andra biblioteksfunktioner. Distributionen mste ske enligt villkoren i ovanstende paragrafer.

Meddelar tydligt i det sammansatta biblioteket att en del av biblioteket r ett verk baserat p Biblioteket samt frklrar var den medfljande separata versionen av samma verk kan terfinnas.

Du fr inte kopiera, ndra, licensiera, lnka till eller distribuera Biblioteket utom p det stt som uttryckligen
anges i Licensen. Alla andra frsk att kopiera, ndra, licensiera, Inka till eller distribuera Biblioteket r ogiltiga och
upphver automatiskt dina rtighet enligt Licensen. Tredje man som har mottagit kopior eller rtigheter frn dig
enligt Licensen kommer dock inte att frlora sina rtighet en Inge de fljer licensvillkoren.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Paragraf 9</title>

<para>Du lggs inte att acceptera Licensen eftersom du inte har undertecknat detta avtal. Du har dock ingen rt att
ndra eller distribuera Biblioteket eller verk baserade p Biblioteket. Sdan verksamhet r frbjuden i lag om du inte
accepterar Licensen. Genom att ndra eller distribuera Biblioteket (eller verk baserat p Biblioteket) visar du genom
ditt handlande att du accepterar Licensen och alla villkor fr att kopiera, distribuera eller ndra Biblioteket eller verk
baserade p Biblioteket.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Paragraf 10</title>

<para>Varje gng du distribuerar Biblioteket (eller verk baserat p Biblioteket) erhller mottagaren automatiskt en
licens frn den ursprunglige licensgivaren att kopiera, distribuera, Inka till eller ndra Biblioteket enligt dessa
licensvillkor. Du kan inte lgga mottagaren ngra andra begrnsningar av rttigheterna n de som fljer av licensvillkoren.
Du r inte skyldig att tillse att tredje man fljer Licensen.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Paragraf 11</title>

<para>Om, till fljd av ett domstolsutslag eller anklagelse om patentintrng eller av ngot annat skl (ej begrnsat till
patentfrgor), villkor lggs dig (antingen genom domstolsbeslut, avtal eller p annat stt) som strider mot den hr
Licensen, befriar det dig inte frn ngot av villkoren i Licensen. Om du inte kan distribuera Biblioteket och samtidigt
uppfylla villkoren enligt Licensen och andra skyldigheter, fr du som en konsekvens inte distribuera Biblioteket. Om
exempelvis ett patent inte tillter fri distribution av Biblioteket till alla dem som mottar kopior direkt eller indirekt frn
dig, mste du avst helt frn distribution av Biblioteket.</para>

<para>Om ngon del av denna paragraf frklaras ogiltig eller ej verkstllbar i ngot sammanhang skall terstoden av
paragrafen gilla och paragrafen i sin helhet giller i andra sammanhang.</para>

<para>Syftet med denna paragraf r inte att frm dig att beg intrng i patent eller andra rtigheter eller att frm dig att
bestrida giltigheten i sdana rtigheter. Det enda syftet med denna paragraf r att skydda distributionssystemet fr fri
programvara vilket grs genom anvndandet av dessa licensvillkor. Mnga mnniskor har Inmat generosa bidrag till det
stora utbudet av programvara som distribueras i det hr systemet och stter sin tillit till en fortsatt anvndning av
systemet. Det r upphovsmannen sjlv som beslutar om han/hon vill distribuera programvara genom detta eller annat
system och en licensinnehavare kan inte framtvinga ett sdant beslut.</para>

<para>Denna paragrafs syfte r att gra helt klart vad som anses vara konsekvensen av terstende delen av
Licensen.</para>
</sect2>
Paragraf 12

Om distributionen och/eller använder av Biblioteket är begränsad i vissa länder, på grund av patent eller upphovsrättsligt skyddade gränssnitt, kan upphovsmanen som placerar Biblioteket under den här Licensen lägga till en uttrycklig geografisk spridningsklausul, enligt vilken distribution är tillten i länder utom dem i vilket det är frbjudet. Om så fallet kommer begränsningen att utgöra en fullvändig del av Licensen.

Paragraf 13

Free Software Foundation kan ge ut reviderade och/eller nya versioner av LGPL från tid till annan. Sdana nya versioner kommer i sin helhet att minna om nuvarande version, men kan skilja sig i detaljer som ber繼 nya problem eller vervganden.

Paragraf 14


Paragraf 15

VEN OM BIBLIOTEKEN LICENSIERAS UTAN KOSTNAD, GES INGEN GARANTI FR BIBLIOTEKEN, UTOM SDAN GARANTI SOM MSTE GES ENLIGT GLLANDE LAGSTIFTNING. FRUTOM NR S SKRIFTLIGT ANGES, TILLHANDAHOLLER UPPOHVSRRTTSINNEHAVAREN OCH/ELLER ANDRA PARTER BIBLIOTEKEN 1 <quote>BEFINNLIGT SKICK</quote> (AS IS) UTAN GARANTI AV NGOT SLAG, VARKEN UTTRYCKLIGA ELLER UNDERFRSTDDDA, INKLUSIVE, MEN INTE BEGRNSAT TILL UNDERFRSTDDDA GARANTIER VID KP OCH LMPLIGHET FR ETT VISST NDAML. HELA RISKEN FR KVALITET OCH AVNDBARHET AF BIBLIOTEKET BRS AV DIG. OM BIBLIOTEKET SKULLE VISA SIG BEHFTAT MED FEL BR DU ALLA KOSTNADER FR FELETS AVHJLPANDE, REPARATION ELLER NDVNDIG SERVICE.

Paragraf 16
INTE I NGOT FALL, SVIDA INTE DET KRVS ENLIGT GLLANDE LAGSTIFTNING ELLER AVTALAS SKRIFTLIGT, SKALL EN UPPHOVSRITTSSINNEHAVARE ELLER ANNAN PART SOM KAN NDRA OCH/ELLER DISTRIBUERA BIBLIOTEKET ENLIGT OVN, VARA SKYLDIG UTGE ERSTTNING FR SKADA DU LIDER, INKLUSIVE ALLMN, DIREKT ELLER INDIRKET SKADA SOM FLIR P GRUND AV ANVNDNING AV, ELLER OMMLIGEN ATT ANVNDA, BIBLIOTEKET (INKLUSIVE MEN INTE BEGRRSAT TILL FRLUST AV DATA, DATA SOM FRAMSTLLS FELAKTIGT, FRLUSTER SOM DU ELLER TREDJE MAN LIDER ELLER FEL 1 BIBLIOTEKET SOM GR ATT DET INTE FUNGERAR MED ANNAN PROGRAMVARA), VEN OM UPPHOVSRITTSSINNEHAVARE ELLER ANNAN PART HAR UDERRTTATS OM MJLIGHETEN TILL SDAN SKADA.
We protect your rights with two steps:

- copyright the software, and
- offer you this license which gives you legal permission to copy, distribute and/or modify the software.
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
If the modified program normally reads commands interactively when run, you
must cause it, when started running for such interactive use in the most
ordinary way, to print or display an announcement including an appropriate
copyright notice and a notice that there is no warranty (or else, saying
that you provide a warranty) and that users may redistribute the program
under these conditions, and telling the user how to view a copy of this
License.

<note>
<title>Exception:</title>
<para>
If the Program itself is interactive but does not normally print such an
announcement, your work based on the Program is not required to print an
announcement.
</para>
</note>

You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

<orderedlist numeration="loweralpha">
〈listitem>
<para>
Accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,
Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
Johdanto

Tm on GPL-lisenssin epvirallinen knns suomeksi. Ttn kunn knt ei ole julkaissut Free Software Foundation eik se mit oikeudellisesti sitovasti GPL-lisenssi kyttvien ohjelmien levitysehtoja vain alkuperinen englanninkielinen GPL-lisenssin teksti on oikeudellisesti sitova. Toivomme kuitenkin, ett tm knt auttaa suomenkielisi ymmrtmin GPL-lisenssi paremmin.</para></warning></para>

<sect1 id="preamble" label="none">
<title>Johdanto</title>

<para>Tm lisenssisopimuksen kirjaimellinen kopioiminen ja levittminen on sallittu, mutta muuttaminen on kielletty.</para>

<abstract role="description"><para>Yleens tietokoneohjelmien lisenssisopimuksien suunniteltu siten, ett ne estv ohjelmien vapaa jakamisen ja muuttamisen. Sen sijaan GPL-lisenssi on suunniteltu takaamaan kyttjn vapaus jakaa ja muuttaa ohjelmaa lisenssi varmistaa, ett ohjelma on vapaa kaikille kyttjille.</para></abstract>

</sect1>
Yleens tietokoneohjelmien lisenssisopimukset on suunniteltu siten, että ne estvt ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisenssi on suunniteltu takaamaan kyttjän vapaan ja muutteen ohjelman lisenssi varmistaa, että ohjelma on vapaan kaikille kyttjille. GPL-lisenssi soveltuu posaan Free Software Foundationin ohjelmia ja mihin tahansa muuhun ohjelmaan, jonka tekijät ja oikeudenomistajat sitoutuvat sen kyttä. (Joihinkin Free Software Foundationin ohjelmiin sovelletaan GPL-lisenssin sijasta LGPL-lisenssi [GNU-kirjastolisenssi]). Kuka tahansa voi kytt GPL-lisenssi.

Kun tss Lisenssiss puhutaan vapaasta ohjelmasta, silloin ei tarkoiteta hintaa. GPL-lisenssi on nimittin suunniteltu siten, että kyttjille taataan vapaus levittäkseen ohjelmia (ja pyytäkseen maksua tätä palvelusta). GPL- lisenssi takaa myös sen, että kyttj saa palveluksessaan ohjelman lähdekoodin, että hän voi muuttaa ohjelmaa tai kytt osia siitä omissa vapaissa ohjelmissaan, ja että kaikkien niden toimien tiedettäen olevan sallittuja.

Jotta kyttjän oikeudet turvattaisiin, lisenssill asetetaan rajoituksia, jotka estvt ketk tahansa kieltämistä niiden oikeuksia tai vaatimata niiden luovuttamista. Nämä rajoitukset merkitsevät tietystä velvoitteita kyttäjälle kyttjille, joka levittää ohjelmakopioita tai muuttaa ohjelmaa.

Jokaisen oikeudet turvataan kahdella toimenpiteellä: <orderedlist numeration="arabic">
<li>ohjelma suojataan tekijänoikeudella, ja</li>
<li>kyttjille tarjotaan tm lisenssi, joka antaa laillisen luvan kopioida, levittää ja muuttaa ohjelmaa.</li>
</orderedlist></para>

Edelleen, jokaisen tekijän ja Free Software Foundationin suojamaiseksi on varmistettava, että jokainen ymmärtää, että vapaalla ohjelmalla ei ole takuuta. Jos joku muuttaa ohjelmaa ja levittää sen edelleen, ohjelman vastaanottajien on tiedettävä, että heillä ei ole alkuperäistä ohjelmaa. Joten mik tahansa ongelma, jonka muut ovat aikaansaaneet, ei vaikuta alkuperäisen tekijän maineeseen.

Ohjelmistopatentit uhkaavat jokaista vapaasta ohjelmasta. On olemassa vaara, että vapaaiden ohjelmien levittävät patentoivat ohjelmia sillä seurauksella, että heillä on ohjelmien omistusoikeus. Tämä uhkaa siksi jokainen patentti on joko lisensoitava ilman oikeutta kieltää tai jettää kokonaan lisensoomattaa.

Seuraa tarkat ehdot vapaaiden ohjelmien kopiointiselle, levittämiselle ja muuttamiselle.
Ti Lisenssi sovelletaan kaikkiin ohjelmiin tai muihin teoksiin, jotka sisältävät tekijänoikeuden haltijan ilmoituksen, että teoksen levittäminen tapahtuu GPL-lisenssin ehtojen mukaan. "Ohjelma" viittaa kaikkiin tällaisiin tietokoneohjelmiin ja muihin teoksiin. "Ohjelmaan perustuva teos" tarkoittaa joko Ohjelmaa tai mit tahansa tekijänoikeuslain mukaista jlkiperistä teosta; toisin sanoen teosta, joka sisältää Ohjelman tai osan sitä, kirjaimellisesti tai muutettuna, tai toiselle kielelle kinnitetyn. (Tst eteenpin känns sisältyy kätteeseen "muutos"). "Lisenssin saaja" on se, jolle ohjelma lisensoidaan.

Tm lisenssi ei kata muita toimenpiteitä kuin kopioimisen, levittämisen ja muuttamisen. Ohjelman ajaminen ei ole kielletty. Ohjelman tuloste on tmn Lisenssin alainen vain silloin, kun se muodostaa Ohjelmaan perustuvan teoksen (riippumatta siitä ajetaanko Ohjelmaa vai ei). Milloin tuloste on Lisenssin alainen riippuu siitä, mitä Ohjelma tekee.

Lisenssin saajalla on oikeus kopiooida ja leviättää sanatarkoja kopioita Ohjelman lähdekoodista sellaisena kuin se on saatu, millä tahansa laitteella. Ehtona on, että asianmukaisesti jokaisesta kopiosta ilmenee kenellä on siihen tekijänoikeus ja että Ohjelmaan ei ole takuuta; edelleen, kaikki viitaukset tähän Lisenssiin ja ilmoitukseen takuun puuttumisesta on pidettävä koskemattomana; ja vielä, jokaiselle Ohjelman vastaanottajalle on annettava tm Lisenssi ohjelman mukana.

Lisenssin saaja voi pyytää maksun Ohjelman kopioimisesta ja voi halutessaan myydä Ohjelmaan takuun.

You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

Exception:

If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.

Nämä ehdot koskevat muuteltua teosta kokonaisuudessaan. Jos yksilöityt osat tätä teostaa eivät ole johdettuja Ohjelmasta ja ne voidaan perustellusti katsoa itsenäisiksi ja erillisiksi teoksiksi, silloin tämä Lisenssi ja sen ehdot eivät koske nit osia, kun niitä levitetään erillisinä teoksina. Mutta jos samoja osia levitetään kokonaisuutta, joka on Ohjelman perustuva teos, tän kokonaisuuden levittäminen on tapahduttava tän Lisenssin ehtojen mukaan, jolloin täm lisenssin ehdot laajenevat kokonaisuuteen ja tten sen jokaiseen osaan riippumatta siitä, kuka ne on tehnyt ja millaisissa ehdissa.

Eli tän Kohdan tarkoitus ei ole saada oikeuksia tai ottaa pois Lisenssin saajan oikeuksia teokseen, jonka hän on kokonaan kirjoittanut; pikemminkin tarkoitus on kyttä oikeutta kontrolloida Ohjelman perustuvien julkisteroisteosten tai kollektiivisten teosten levittämistä.

Lisäksi pelkkä toisen teoksen, joka ei perustu Ohjelmaan, liitittäminen Ohjelman (tai Ohjelman perustuvan teoksen) kanssa samalle tallennus- tai jakelulajinelle ei merkitse sitä, että toinen teos tulisi tän Lisenssin sitomaksi.

You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
Accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

Accompany it with a written offer, valid for at least three years, to give any
third party, for a charge no more than your cost of physically performing source
distribution, a complete machine-readable copy of the corresponding source code,
to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,

Accompany it with the information you received as to the offer to distribute
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distribution and only if you received the program in object code or executable form
with such an offer, in accord with Subsection b above.)

Teoksen lhdekoodi tarkoittaa sen suositeltavaa muotoa muutosten tekemist varten. Ajettavan teoksen
tydellinen lhdekoodi tarkoittaa kaikkea lhdekoodia kaikkiin teoksen sisältmiin moduleihin ja lisksi kaikkiin sen
mukana seuraavien kyttiläittymidostoihin sek skripteihin, joilla hallitaan ajettavan teoksen asennusta ja kntmist.
Kuitenkin erityisen poikkeuksena levitetyn lhdekoodin ei tarvitse sisältää sellaista, mik yleens levitetyn (joko
lhdekoodi- tai binrimuodossa) kytirjestelmän pkomponenttien (kntj, ydin. jne.) mukana, joiden pl teosta ajetaan,
ellei sellinen komponentti tule ajettavan teoksen mukana.

Jos ajettavan tai objektikoodin levittminen tehdn tarjoamalla psy tietyst paikassa olevaan kopioon, tllin
tarjoamalla vastaavasti psy samassa paikassa olevaan lhdekoodiin luetaan lhdekoodin levittmiseksi, vaikka
kolmansia osapuolia ei pakotettaisi kopioimaan lhdekoodia objektikoodin mukana.

Ohjelman kopiominen, muuttaminen, lisensointi edelleen tai Ohjelman levittminen muuten kuin tnn
Lisenssin ehtojen mukaisesti on kielletty. Kaikki yritykset muulla tavoin kopioida, muuttaa, lisensoida edelleen tai
levitt Ohjelmaa ovat ptemittmi ja johtavat automaattisesti tnn Lisenssin mukaisten oikeuksien ptymiseen. Sen sijaan
ne, jotka ovat saaneet kopioita tai oikeuksia Lisenssin saajalta tnn Lisenssin ehtojen mukaisesti, eivt menet saamiaan lisenssoitujia oikeuksia niin kauan kuin he noudattavat nii ehtoja.</para>

<title>Kohta 5</title>


<title>Kohta 6</title>

<p> Aina kun Ohjelmaa (tai Ohjelman perustuvaa teosta) levitetään, vastaanottaja saa automaattisesti alkuperäiseltä tekijältä lisenssin kopioida, levittä ja muuttaa Ohjelmaa niden ehtojen ja edellytysten sitominä. Vastaanottajalle ei saa asettaa mitään lisärajoitteita tss annetujen oikeuksien kytys. Lisenssin saajalla ei ole vastuuta valvossa noudattavatko kolmannet osapuolet ttt Lisenssi. </p>

<title>Kohta 7</title>

<p> Jos oikeuden pats tai vitez patentin loukkauksesta tai jokin muu syy (rajoittumatta patenttitykkymyksiin) asettaa Lisenssin saajalle ehtoja (olipa niiden alkuperä sitten tuomio, sopimus tai jokin muu), jotka ovat vastoin nii lisenssiesihoja, ne eivt anna oikeutta poiketa tss Lisenssissä. Jos levittäminen ei ole mahdollista siten, että samanaikaisesti toimitaan se tnn Lisenssin ett joidenkin muiden jaloitettavien velvoitteiden mukaisesti, tllin Ohjelmaa ei saa lainkaan levitt. Jos esimerkiksi jokin patenttilisenssi ei salitkaikille niille, jotka saavat Ohjelman Lisenssin saajalta joko suoraan tai epsuorasti, Ohjelman levittämist edelleen ilman rojalmitamausta, tllin ainut tapa tyyt se patenttilisenssin ett tnn Lisenssin ehdot on olla levittettävän Ohjelmaa lainkaan. </p>

<p> Jos jokin osa tss kohdasta katsotaan ptemtinksi tai mahdottomaksi vahvistaa oikeudessa joissakin tietyiss olosuhteissa, silloin tt kohtaa on tarkoitus soveltaa ptevin osin ja muissa olosuhteissa kokonaisuudessaan. </p>

<p> Tnn kohdan tarkoitus ei ole johtaa siihen, että Lisenssin saaja rikkoisi miten patenttia tai muuta varallisuusoikeutta tai vitt mitin niden oikeuksien ptevyystä; tnn kohdan ainoana tarkoituksena on suojata vapaiden ohjelmien levitysrijestelmän yhtenäys, joka on luotu kytittävä yleisi lisenssej. Monet ovat antaneet arvokasta panoksensa mitä erilaisiimpin ohjelmiin, joita levitetn tss jristelmssä luottaen sen soveltamisen pysyvyyteen; on jokaisen tekijän ja lahjoittajan pteställä haluaako hän levitt ohjelmaa jossakin muussa jristelmsessä ja Lisenssin saaja ei voi vaikuttaa tnt valintaan. </p>

<p> Tnn kohdan tarkoituksena on tehd tysin selväksi se, mik on tnn Lisensisin muiden osien seuraus. </p>

<title>Kohta 8</title>

<p> Tnn kohdan tarkoituksesta on tehdysin selväksi se, mik on tnn Lisenssin muiden osien seurauksena. </p>
<title>Kohta 8</title>

&lt;para&gt;Jos patentit tai tekijnoikeudella suojaatut kytliittymt rajoittavat Ohjelman levittmist tai kytt joissakin valtioissa, Ohjelman alkuperinen tekij, joka lisensoi ohjelmaansa til Lisenssill, voi asettaa nimenomaisia maantieteellisi levytsrajoituksia, jolloin levittminen on sallittu joko mukaan- tai poislukien mm valtiot. Tllisess tapauksessa nm rajoitukset otetaan huomioon kuin ne olisi kirjoitettu tnn Lisenssin sekaan.&lt;/para&gt;

&lt;/sect2&gt;

&lt;sect2 id="sect9" label="9"&gt
&lt;title&gt;Kohta 9&lt;/title&gt;

&lt;para&gt;Free Software Foundation voi julkaista korjattuja tai uusia versioita GPL-lisenssist aika ajoin. Niden uusien versioiden henki on yhtenev nykyisen version kanssa, mutta ne saattavat erottaa yksityiskohdissa ottaen huomioon uusia ongelmia ja huolenaiheita.&lt;/para&gt;

&lt;/sect2&gt;

&lt;sect2 id="sect10" label="10"&gt
&lt;title&gt;Kohta 10&lt;/title&gt;

&lt;para&gt;Jos Lisenssin saaja haluaa ottaa osia Ohjelmasta mukaan muihin vapaisiin ohjelmiin, joiden levytsehdot ovat erilaiset, hnen tulee kirjoittaa tekijille ja kysy lupaa. Jos ohjelman tekijnoikeuden omistaa Free Software Foundation, on kirjoitettava heille; he tekevt joskus poikkeuksia. Free Software Foundationin ptsten ohjenuorana on kaksi pmr; silytt kaikista heidn vapaisista ohjelmista johdettujen ohjelmien vapaa asema ja yleisesti kannustaa ohjelmien jakamiseen ja uudelleen kyttyn.&lt;/para&gt;

&lt;/sect2&gt;

&lt;sect2 id="sect11" label="11"&gt
&lt;title&gt;Ei takuuta&lt;/title&gt;

&lt;subtitle&gt;Kohta 11&lt;/subtitle&gt;

&lt;para&gt;Koska tm Ohjelma on lisensoitu ilmaiseksi, tle Ohjelmalle ei myynet takuuta lain sallimissa rajoissa. Ellei tekijnoikeuden haltija kirjallisesti muuta osoita, Ohjelma on tarjolla &lt;quote&gt;sellaisena kuin se on&lt;/quote&gt; ilman minknlaista takuuta, ilmaistua tai hiljaista, sislten, muttei tyhjentvsti, hiljaisen takuun kaupallisesti hyvksyttvst laadusta ja soveltuuvaudesta tiettyyn tarkoitukseen. Lisenssin saajalla on kaikki riski Ohjelman laadusta ja suorituskyvyyst. Jos ohjelma osoittautuu virheelliseksi, Lisenssin saajan vastuulla ovat kaikki huolto- ja korjauskustannukset.&lt;/para&gt;

&lt;/sect2&gt;

&lt;sect2 id="sect12" label="12"&gt
&lt;title&gt;Kohta 12&lt;/title&gt;

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<title>Seccion 6</title>

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Giy Php ny nhm mc ch lm cho s tay, cun sch gio hay ti liu ghi ra khc l

m bo mi ngi c quyn sao chp v phnh nh li ti liu , c sa i n hay khng, mt cch thng mi hay khng.

Th hai, Giy Php ny bo tn cho tc gi v nh xut bn c cch hng cng trng v s c gng ca mnh, cn h khng c c coi c chu trch nhim v s sa i ca ngi khc.

Giy php ny l kiu <quote>tc quyn nge</quote>, c nga la mi sn phm bt ngun t ti liu ny cng phi l t do v cng ngha. N b tr Giy Php Cng cng GNU (GPL), mt giy php tc quyn nge c thit k cho phn mm dng t do.

Chng ti thit k Giy php ny dng n vi s tay hng dn cch s dng phn mm t do, v phn mm t do cn thit ti liu cng t do: chng trnh t do nn c sn s tay cung cp cng nhng quyn t do vi phn mm . Tuy nhin Giy php ny khng b hn ch trong cc s tay phn mm; n c th c dng vi bt c vn bn no, bt chp ch , bt chp n l cun sch c in ra hay khng. Chng ti ngh Giy php ny chnh cho ti liu nhm mc ch hng dn hay tham kho.
<sect1 id="fdl-section1" label="1">
<title>S THCH HP V LI NH NGHA</title>
<para id="fdl-document">Giy php ny p dng cho bt k s tay no hay vn bn khc cha thng bo c chn bi nghi gi tc quyn, ni rng n c t c phth hnh vi iu kin ca Giy php ny. 〈quote〉Ti liu</quote> bn di i din bt c s tay hay vn bn no nh vy. Bt c nghi ring no l nghi c cp bn quyn, v c gi l bn .</para>

<para id="fdl-modified">〈quote〉Phn bn Sa i</quote> ca Ti liu c ngha l bt c vn bn cha Ti liu hay on no ca n, hoc c sao chp ng nguy vn, hoc vi sa i v/hay c dch sang ng ng khc.</para>

<para id="fdl-secondary">〈quote〉Phin bn</quote> c t c ph lc t c nh l Tit on Bt Bin trong thng bo ni rng 〈link linkend="fdl-document"〉Ti liu</link> c to li trong nh th, 〈quote〉Trang Tiu</quote> c nghi l, i vi cun sch c in ra, trang tiu chnh n, cng vi trang sau no cn thit hin th r rng nguy lien phit xut hin trn trang tiu , ty theo Giy php ny. i vi vn bn theo nh dng kgnh c trang tiu nh th, 〈quote〉Trang Tiu</quote> ngha l vn bn gn v tr hin th r rng nht tiu ca vn bn, nm trc thn vn bn.</para>

<sect1 id="fdl-section2" label="2">
<title>SAO CHP NG NGUYN VN</title>
<para>Cho php bn sao chp v php hnh 〈link linkend="fdl-document"〉Ti liu</link> trong bt c vt cha no, thng mi hay khng, min l Giy php ny, nhng thng bo tc quyn, v thng bo giy php ni rng Giy php ny p dng cho Ti liu c to li trong mi bn sao, v bn khng thm iu kin khc no vo nhng iu kn ca Giy php ny. Khng cho php bn s dng bin php k thut gy tr nghi cho hay iu kin hot ng c hay sao chp thm na nhng bn sao bn to hay php hnh. Tuy nhin, cho php bn chp nhn s n b trao cho bn sao. Nu bn pht hnh s bn sao ln, bn cnh phi tu theo iu kin trong 〈link linkend="fdl-section3">phn 3</link> .</para>

<sect1 id="fdl-section3" label="3">
<title>SAO CHP NG NGUYN VN</title>
<para>Cho php bn sao chp v php hnh 〈link linkend="fdl-document"〉Ti liu</link> trong bt c vt cha no, thng mi hay khng, min l Giy php ny, nhng thng bo tc quyn, v thng bo giy php ni rng Giy php ny p dng cho Ti liu c to li trong mi bn sao, v bn khng thm iu kin khc no vo nhng iu kn ca Giy php ny. Khng cho php bn s dng bin php k thut gy tr nghi cho hay iu kin hot ng c hay sao chp thm na nhng bn sao bn to hay php hnh. Tuy nhin, cho php bn chp nhn s n b trao cho bn sao. Nu bn pht hnh s bn sao ln, bn cnh phi tu theo iu kin trong 〈link linkend="fdl-section3">phn 3</link>.</para>
Cng cho php bn cho mn bn sao, vi cng iu kin ni trn, v cho php bn trnh by cng khai bn sao.</para>

SAO CHP HNG LOT

Ti liu</link> hn 100, v thng bo giy php ca Ti liu cn thit <link linkend="fdl-document">on Ba</link>, bn phi vy quanh mi bn sao trong ba hin th r ng m c cc on Ba ny : on Ba Trc trn ba trc, cn on Ba Sau trn ba sau. C hai ba cng phi hin th r ng bn l nh xut bn nhng bn sao ny. Ba trc phi hin th tiu y c mi t r ng u. Cho php bn thm nguy liu na trn ba. Vic sao chp ch thay i ba, min l ba bo trn tiu ca <link linkend="fdl-document">Ti liu</link> v th nhng iu kin ny, c th c coi l vie sao chp ng nguy vn bng cch khe. \(/</para>

Nu nhng vn bn bt bng phi nm trn ba no l qu di hin th r ng, bn nn hin th nhng on th nh l c lit k (nhiu nh th c r) trn ba , v hin th vn bn cn li trn cc trang tip cn.</para>

Cho php bn hay pht hnh s bn sao <link linkend="fdl-transparent">c</link> ca <link linkend="fdl-document">Ti liu</link> hn 100, bn phi hoc pht hnh mt bn sao <link linkend="fdl-transparent">Trong Sut</link> trn, cho my c c cng vi mi bn sao c, hoc pht biu trong hay vi mi bn sao c mt a im trn trnh cng t hh cho mi ngi truy cp m cha mt bn sao Trong Sut hon thnh ca Ti liu, khng c nguy liu c thm, vo mi ngi s dng mng chung c th truy cp t xung v danh v min ph bng gia ph chy mng tiu chun cng cng. Nu bn s dng ty chn th hai, bn cn phi theo mt s bc hi cn thn, khi bn bt u pht hnh hng lot bn sao c, c chn l bn sao Trong Sut ny s vn cn cho ngi dng truy cp a im khi r trong t nh l mt nm sau ln cui cng bn pht hnh mt bn sao c (mt cch trc tip hay qua i l hay hng bn) ca bn sa i c cho cng cng.</para>

Yu cu, nhng khng cng thit bn lin lc vi nhng tc gi ca <link linkend="fdl-document">Ti liu</link> kh trc khi pht hnh hng lot bn sao, cho h c dp cung cp phin bn Ti liu c cp nh l.</para>

Cho php bn sao c pht hnh <link linkend="fdl-modified">Phin bn Sa i</link> ca <link linkend="fdl-document">Ti liu</link> vi iu kin ca phn <link linkend="fdl-section2">2</link> <link linkend="fdl-section3">3</link> trn, min l bn pht hnh Phin bn Sa i di chnh xch Giy Php ny, cn Phin bn Sa i l m nhim v ca Ti liu th cp quyn pht hnh v sa i Phin bn Sa i cho a i c bn sao ca n. Hn na, bn phi lm nhng vic ny trong Phin bn Sa i:</para>

Dng trn <link linkend="fdl-title-page">Trang Tiu</link> (cng trn nhng ba, nu c) mt tiu khc bit vi tiu ca <link linkend="fdl-document">Ti liu</link> v vi tiu ca phin bn no trc (cc phin bn trc, nu c, nn c lit k trong phn Lch s ca Ti liu). Nh xut bn gc cho pho ph th bn c quyn s dng cng mt tiu vi phin bn trc.</para>

Lit k trn <link linkend="fdl-title-page">Trang Tiu</link>, lm tc gi, mt hay nhui ngi hay thc th chu trch nhm to s sa i trong <link linkend="fdl-modified">Phin bn Sa i</link>, cng vi t nh l mt gc chnh ca <link linkend="fdl-document">Ti liu</link> (tt c cc tc gi chnh, nu s t hn nm). </para>

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<listitem>
<para>Ghi r trn <link linkend="fdl-title-page">Trang Tiu</link> tn ca nh xut bn <link linkend="fdl-modified">Phin bn Sa i</link>, Im nh xut bn.</para>
</listitem>

<listitem>
<para>Bo tn tt c cc thng bo tc quyển ca <link linkend="fdl-document">Ti Liu</link>.</para>
</listitem>

<listitem>
<para>Thm mt thng bo tc quyển the th hp vi s sa i ca bn, tip cn vi cc thng bo tc quyển khc.</para>
</listitem>

<listitem>
<para>Chn vo, ng sau nhng thng bo tc quyển, mt thng bo giy php cho php mi ngi s dng <link linkend="fdl-modified">Phin bn Sa i</link> vi iu kin ca Giy php ny, dng mu c hin th trong Ph lc bn di.</para>
</listitem>

<listitem>
<para>Bo tn trong thng bo giy php nhng danh sch y cc <link linkend="fdl-invariant">Tit on Bt Bin</link> v cc <link linkend="fdl-cover-texts">on Ba</link> cn thit a ra trong thng bo giy php ca <link linkend="fdl-document">Ti liu</link>.</para>
</listitem>

<listitem>
<para>Gm c mt bn sao cha thay i ca Giy php ny.</para>
</listitem>

<listitem>
<para>Bo tn phn tn <quote>Lch s</quote>, cng vi tiu ca n, v thm vo n mt mc pbh biu t nht tiu, nn xut bn, cc tc gi mi v nh xut bn ca <link linkend="fdl-modified">Phin bn Sa i</link> nh a ra trn <link linkend="fdl-title-page">Trang Tiu</link>. Khng c phn tn <quote>Lch S</quote> trong <link linkend="fdl-document">Ti liu</link> th bn to mt iu phh biu t nht tiu, nn xut bn, cc tc gi v nh xut bn ca <link linkend="fdl-document">Ti liu</link> nh a ra trn <link linkend="fdl-title-page">Trang Tiu</link> ca n, ri thm mt mc din t <link linkend="fdl-modified">Phin bn Sa i</link> nh c phh biu trong cu trc.</para>
</listitem>

<listitem>
<para>Gm c mt bn sao cha thay i ca Giy php ny.</para>
</listitem>

<listitem>
<para>Bo tn a im trn mng, nu c, a ra trong <link linkend="fdl-document">Ti liu</link> cho mi ngi truy cp mt bn sao <link linkend="fdl-transparent">Trong Sut</link> ca <link linkend="fdl-document">Ti liu</link>, cng vy a im mng a ra trong <link linkend="fdl-document">Ti liu</link> cho cc phin bn trc vo n da. Cho php bn chn nhng iu ny vo phn <quote>Lch s</quote>. Cho php bn b st mt a im mng i vi vn bn xut bn t nht bn nm trc <link linkend="fdl-document">Ti liu</link> chnh n, hoc nu nh xut bn gc ca phin bn cp c cho php.</para>
</listitem>

<listitem>
<para>i vi bt c phn no tn <quote>Li Bo Nh</quote> hay <quote>Li Tng</quote>, bo tn tiu ca phn, cng bo tn trong n ton b nguyén li u v ging iu u ca mi li bo nhn v/hay li tng ngi ng gp cho.</para>
</listitem>
<sect1 id="fdl-section5" label="5">

<title>KT HP TI LIU</title>

<para>Cho php bn kt hp <link linkend="fdl-document">Ti liu</link> vi cc ti liu khe c phth hnh di Giy php ny, vi iu kin c xc nh trong <link linkend="fdl-section4">phn 4</link> trn v phn bn sa i, min l bn gm trong s kt hp tt c cc <link linkend="fdl-invariant">Tit on Bt Bin</link> ca tt c cc ti liu ge, cha sa i, v lit k tt c chng l <link linkend="fdl-invariant">Tit on Bt Bin</link> ca vn bn kt hp, trong thng bo giy php ca n. </para>

<para>Vn bn kt hp cn phi cha ch mt bn sao ca Giy php ny; cng cho php thay th nhieu <link linkend="fdl-
invariant">Tit on Bt Bin</link> trng bng cng mt bn sao. Nu c nhuu <link linkend="fdl-invariant">Tit on Bt Bin</link> cng tn nhng khc ni dung, khin mi tiu tit on l duy nht, bng cch ph thm (trong ngoc) tn ca te gi hay nh xut bn gc ca tit on , nu c bit, hoc mt s hiu, ii chnh ng nhng tiu tit on trong danh sch cc <link linkend="fdl-invariant">Tit on Bt Bin</link>, trong thng bo giy php ca vn bn kt hp.<para>

<para>Trong s kt hp, bn phi kt hp bt k tit on c tiu <quote>Lch s</quote> ca nhng ti liu gc khc nhau, th to cng mt tit on c tiu <quote>Lch s</quote>; cng vy kt hp bt k tit on c tiu <quote>Li Bo Nhnh</quote>, v bt k tit on c tiu <quote>Li Tng</quote>. Bn phi xo b mti tit on c tiu <quote>S Xe Nhnh</quote>.</para>

<sect1 id="fdl-section6" label="6"><title>TP HP TI LIU</title><para>Cho php bn to mt tp hp cha <link linkend="fdl-document">Ti liu</link> hay cc ti liu dn xut vi cc ti liu hay sn phm ring v c lp khc, trong hay trn mt khi tin ca phng tin lu tr hay phht hn, ton b khng phi c thn n mt <link linkend="fdl-modified">Phin bn Sa i</link> ca <link linkend="fdl-document">Ti liu</link>, min l khng c tc quy tu tp s tuyn b v s su tp . S su tp ti liu nh vy c gi l <quote>khi tp hp</quote>, v Gip php ny nhng p dng cho nhng sn phm c lp khec c su tp vi <link linkend="fdl-document">Ti liu</link> do chng c su tp nh th, nu bn thn chng khng phi l sn phm dn xut ca <link linkend="fdl-document">Ti liu</link>. Nu nh cu <link linkend="fdl-cover-texts">on Ba</link> ca <link linkend="fdl-section3">phn 3</link> <link linkend="fdl-section3">phn 3</link> c th c p dng cho nhng bn sao ny ca <link linkend="fdl-document">Ti liu</link>.<para>

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<sect1 id="fdl-section7" label="7"><title>TP HP VI SN PHM C LP</title><para>S su tp <link linkend="fdl-document">Ti liu</link> hay cc ti liu dn xut vi cc ti liu hay sn phm ring v c lp khc, trong hay trn mt khi tin ca phng tin lu tr hay phht hn, ton b khng phi c thn n mt <link linkend="fdl-modified">Phin bn Sa i</link> ca <link linkend="fdl-document">Ti liu</link>, min l khng c tc quy tu tp s tuyn b v s su tp . S su tp ti liu nh vy c gi l <quote>khi tp hp</quote>, v Gip php ny nhng p dng cho nhng sn phm c lp khec c su tp vi <link linkend="fdl-document">Ti liu</link> do chng c su tp nh th, nu bn thn chng khng phi l sn phm dn xut ca <link linkend="fdl-document">Ti liu</link>. Nu nh cu <link linkend="fdl-cover-texts">on Ba</link> ca <link linkend="fdl-section3">phn 3</link> <link linkend="fdl-section3">phn 3</link> c th c p dng cho nhng bn sao ny ca <link linkend="fdl-document">Ti liu</link>.<para>

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<sect1 id="fdl-section8" label="8"><title>THNG DCH</title><para>S thng dch c coi l kiu s sa i, v vy cho php bn phht hn hc bn dch ca <link linkend="fdl-document">Ti liu</link> vi iu kin ca <link linkend="fdl-section4">phn 4</link> trn. Kh ng th th <link linkend="fdl-invariant">Tit on Bt Bin</link> bng bn dch cng ths cho php c bit ca mi ngi gi tc quy tu ca n, nhng m cho php bn gm cc bn dch ca mt s hay tt c cc <link linkend="fdl-invariant">Tit on Bt Bin</link>, thm vo nhng phin bn gc ca mi <link linkend="fdl-invariant">Tit on Bt Bin</link>. Cho php bn gm mt bn dch ca Giy php ny, min l bn cng gm phin
bn ting Anh gc ca Giy php ny. Trong trng hp xung t gia bn dch v phin bn ting Anh gc ca Giy php ny, phin bn gc c
quyn cao bn.</para>

</sect1>

<sect1 id="fdl-section9" label="9">
<title>KT THC</title>
<para>Khng cho php bn sao chp, sa i, cp ph hay ph t nh nh <link linkend="fdl-document">Ti liu</link>, tr phi vi
nhng iu kin dt khot ca Giy php ny. Bt c s c gng khc no sao chp, sa i, cp ph hay ph t nh Nh Ti liu b bi b, v s kt the t ng cc
quyn ca bn di Giy php ny. Tuy nhn, nhng ngi nhn bn sao, hay quyn, t bn di Giy php ny s khng c giy php b kt thc
min l h tip tc tun theo hon ton.</para>
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<sect1 id="fdl-section10" label="10">
<title>BN SA I NG LAI CA GIY PHP NY</title>
<para><ulink type="http" url="http://www.gnu.org/fsf/fsf.html">T Chc Phn Mn T Do</ulink> c quyn cng b thng
thon phin bn sa i mi ca Giy php Ti liu T do GNU (GFDL). Phin bn nh vy s c tinh thn tng t vi phin bn hin thi, cn

<para>Mi phin bn ca Giy php nhn mt s hiu phin bn ring. Nu <link linkend="fdl-document">Ti liu</link> xc nh
rng mt phin bn c s hiu ring ca Giy php ny <i>c</i>hay bt c phin bn sau no</i> <quote>q</quote>o <quote>p</quote>dng cho n, bn c tch cun theo
iu kin hoc ca phin bn xc nh, hoc ca bt c phin bn sau no c cng b (khng phi l nhp) bi T chc Phn mn T do. Nu <link linkend="fdl-document">Ti liu</link> 
hng xc nh mt s hiu phin bn ring ca Giy php ny, cho php bn cht c phin bn
no c cng b (khng phi l nhp) bi T chc Phn mn T do.</para>
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<sect1 id="fdl-using" label="none">
<title>Ph Lc</title>
<para>dng Giy php ny trong mt ti liu bn to, hy gm mt bn sao ca Giy php trong ti liu, v thm nhng thng bo tc quyn
v giy php ny ng sau trang tiu :</para>

</sect1>

<sect1 id="fdl-invariant" label=""/>
<title>NM H TN CA BN</title>
<para>C cp quyn sao chp, ph t nhn v/hay sa i ti liu ny vi iu kin ca Giy php Ti liu T do GNU (GFDL). Phin bn 1.1
hay bt c phin bn sau no c cng b bi T chc Phn mn T do; cn nhng <link linkend="fdl-invariant">Tit on Bt Bin</link> 1
LIT K CC TIU, cn nhng <link linkend="fdl-cover-texts">on Ba Trc</link> 1 LIT K, v cn nhng <link linkend="fdl-
cover-texts">on Ba Sau</link> 1 LIT K. Mt bn sao ca giy php c gm trong tit on c tiu <quote>Giy php Ti liu T do
GNU</quote>.</para>
</blockquote>

<sect1 id="fdl-cover-texts" label=""/>
<title>Khng</title>
<para>Nu bn khng c <link linkend="fdl-cover-texts">Tit on Bt Bin</link>, hy vit <quote>khng c Tit on Bt
Bin</quote> thay cho lit k nhng tit on bt bin. Vy nu bn khng c <link linkend="fdl-cover-texts">on Ba Trc</link>, 
vit <quote>khng c on Ba Trc</quote> thay cho lit k chng; cng vy i vi <link linkend="fdl-cover-texts">on Ba
Sau</link>.</para>

<sect1 id="fdl-cover-texts" label=""/>
<title>Nu ti liu ca bn cha mu th d ng k ca m ngun chng trnh, khuyn bn ph th nhng mu ny mt cch song song di
giy phpphpn mm t do mun, v.d. <ulink type="http" url="http://www.gnu.org/copyleft/gpl.html">Giy php Cng cng
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<para>GNU </para>

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<para> GNU GNU GNU GNU </para>

<para> GNU </para>

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<para>GNU C GNU/Linux </para>

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<sect1 id="terms" label="none">
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<para>(<quote>)</quote></para>

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<title>Seccion 7</title>

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Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona dovoljenja GNU zagotavljata pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanja njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.

To dovoljenje, Manj splono dovoljenje, se nanja na nekatere posebej zasnovane programske pakete - navadno knjnice - ustanove Free Software Foundation in na vse druge programe, katerih avtorji so se zavezali k njeni uporabi. Tudi vi ga lahko uporabljate, a najprej vam priporoamo, da glede na razlago spodaj pazljivo razmislite, ali je v doloenem primeru bolje uporabljati to dovoljenje ali morda navadno Splono dovoljenje.

Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona dovoljenja GNU zagotavljata pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanja njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.
<para>Zaradi zavarovanja vaših pravic je uvedena omejitev, ki prepoveduje vsakomur, da bi vam te pravice kratil ali od vas zahteval predajo teh pravic. Te omejitve se prevedejo v doloeno vao odgovornost, e razirjate kopije knjine ali jo spreminjate.</para>

<para>Na primer, e razirjate kopije neke knjine, bodisi zastonj ali za plailo, morate dati prejemnikom vse pravice, ki jih imate sami. Prepreči se morate, da bodo tudi oni prejeli ali imeli dostop do izvorne kode. e s knjino povezujete drugo kodo, morate prejemnikom ponuditi popolne objektne datoteke, tako da jih lahko potem, ko knjino spremenijo, vnovi poveejo s knjino in prevedejo. In morate jim pokazati te pogoje (pravzaprav izvirk, opomba prevajalca), da bodo poznali svoje pravice.</para>

<para>Vae pravice itimo v dveh potezah: (1) avtorsko zaitimo knjino in (2) vam ponujamo to dovoljenje, ki vam daje pravno dovoljenje za razmnoevanje, razirjanje in/ali spreminjanje knjine.</para>

<para>Prav tako, za zaito vsakega avtorja in zaradi nae zaite elimi zatotoviti, da vsakdo razume, da za to prosto programsko opremo ni nobenega jamstva. e je programsko opremo spremenil nekdo drug in ga posredoval naprej, elimi, da njegovi prejemniki vedo, da to, kar imajo, ni izvirk, zato da se problemi, ki jih povzroijo drugi, ne bodo odraali na ugled izvornega avtorja. Zaradi zaite vsakega razirjevalca elimi zatotoviti, da vsakdo razume, da za to prosto knjino ni nikakrnega jamstva. e je knjino spremenil nekdo drug in jo posredoval naprej, elimi, da njeni prejemniki vedo, da to, kar imajo, ni izvirk, da problemi, ki jih povzroijo drugi, ne bodo kvarili ugleda izvornega avtorja.</para>

<para>Konno, vsak prost program nenehno ogroajo programski patenti. elimi se izogniti nevarnosti, da bi podjetja uinkovito omejevala uporabnike prostega programa s pridobivanjem omejujojih licenc od lastnikov patentov. Za prepreitev tega jasno zahtevamo, da mora biti vsak patent za katerokoli izpeljano razliko knjino licenciran tako, da je popolnoma konsistenten s popolno svobodo rabe, kot jo doloa to dovoljenje.</para>

<para>Veino programja GNU, vkljuno z nekaterimi knjincami, pokriva navadno Splono dovoljenje GNU. To dovoljenje, Manj splono dovoljenje GNU, se nanaa na doloene posebne knjine, in se precej razlikuje od navadnega Splanega dovoljenja. To dovoljenje uporabljamo za tiste knjine, za katere elimi omogoitudi tudi povezovanje v neproste programe.</para>

<para>Ko se program povee s knjino, najsi bo statino ali pa s pomojo deljene knjine, je kombinacija obojega skupaj, pravno gledano, zdrueno delo, izpeljanka izvirne knjine. Navadno Splono dovoljenje torej dovoljuje takno povezovanje le, e celotna kombinacija zadoa prav tam doloenim kriterijem svobode. Manj splono dovoljenje dovoljuje bolj ohlapne pogoje za povezovanje druge kode s knjino.</para>

<para>Tem dovoljenju pravimo &lt;quote&gt;Manj&lt;/quote&gt; splono dovoljenje, saj manj zavaruje svobodo uporabnika kot pa navadno Splono dovoljenje. Drugim razvijalcem prostega programja tudi ponuja manj prednosti pred konkurenvim neprostim programi. Te pomanjkljivosti so razlog, da smo za tevilne knjine uporabili navadno Splono dovoljenje. Vendar Manj splono dovoljenje v doloenih pogojih pomeni prednost.</para>

<para>Denimo, da v redkih primerih obstaja posebna potreba spodbuditi kar najiro rabo doleno knjine, da bi ta postala de-facto standard. Da lahko to doseemo, mora biti neprostim programom dovoljeno uporabljati to knjino. Pogosteje se zgodi, da prosta knjina opravi enako delo kot iroke uporabljane neproste knjine. V tem primeru pridobimo le malo, e omejimo rabo proste knjine le na prosto programje, zato raje uporabimo Manj splono dovoljenje.</para>

<para>V drugih primerih dovoljenje rabe dolene knjine v neprostih programih omogo vejemu tevilu ljudi, da
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uporabljajo veji obseg prostega programja. Dovoljenje za uporabo knjinice GNU C v neprostih programih je, denimo, omogoilo mnogim ljudem, da so uporabljali popoln operacijski sistem GNU, kot tudi njegovo inaico, operacijski sistem GNU/Linux. </para>

<para>
Manj splono dovoljenje manj zaiti uporabnikovo svobodo, pa vendarle zagotavlja, da ima uporabnik programa, ki je povezan s knjinico, proste roke pri poganjanju tega programa s sprememljeno razliico te knjinice.</para>

<para>
Sledijo natanne doloitve in pogoji za razmnoevanje, razirjanje in spreminjanje. Pozorni bodite na razliko med "delom, ki temelji na knjinici" in "delom, ki uporablja knjinico". Prvo vsebuje kodo, izpeljano iz knjinice, medtem, ko mora biti drugo kombinirano s knjinico, da lahko tee.</para>

</sect1>

<sect1 id="terms" label="none">
<title>DOLOILA IN POGOJI ZA RAZMNOEVANJE, RAZIRJANJE IN SPREMINJANJE</title>

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<para>"Knjinica" pomeni zbirko programskih funkcij in/ali podatkov, pripravljenih tako, da jih je mo prirono povezovati z uporabnimi programi (ki uporabljajo nekatere teh funkcij in podatkov), da s tem oblikujemo izvedljive datoteke.</para>

<para>"Knjinica" v nadaljevanju pomeni vsako takno programsko knjinico ali delo, ki se razirja pod temi pogoji. "Delo, ki temelji na knjinici" pomeni bodisi knjinico ali pa katerokoli izvedeno delo po zakonu o avtorski in sorodnih pravicah (angl. copyright law): se pravi delo, ki vsebuje knjinico ali njen del, bodisi dobesedno ali s spremembami in/ali prevedeno v drug jezik. (Tukaj in povsod v nadaljevanju je prevod vkljuen brez omejitev v pojem "spremembe".)</para>

<para>"Izvorna koda" pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri knjinici pomeni izvorna koda vso izvorno kodo za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z definicijami vmesnika, povezanega s tem delom, ter skripte za nadzor prevajanja in namestitve knjinice.</para>

<para>Dovoljenje ne pokriva nobenih drugih dejavnosti razen razmnoevanja, razirjanja in spreminjanja; ostale so izven njegovega dosegga. Dejanje zagona programa z uporabo knjinice ni omejeno in odvodni zapis programa je zajet le, e njegova vsebina predstavlja delo, ki je izpeljano iz knjinice (ne glede na to, da je bila pri orodju za njegovo pisanje uporabljenja knjinica). Ali je to res ali ne, je odvisno od tega, kaj knjinica dela in kaj dela program, ki knjinico uporablja.</para>

</sect2>

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<title>Razdelek 2</title>

<sect2 id="sect3" label="3">
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<title>Razdelek 7</title>

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<title>Razdelek 8</title>

<sect2 id="sect9" label="9">
<title>Razdelek 9</title>

<sect2 id="sect10" label="10">
<title>Razdelek 10</title>

<sect2 id="sect11" label="11">
<title>Razdelek 11</title>

<sect2 id="sect12" label="12">
<title>Razdelek 12</title>

<sect2 id="sect13" label="13">
<title>Razdelek 13</title>

<sect2 id="sect14" label="14">
<title>Razdelek 14</title>

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<title>Razdelek 18</title>

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<title>Razdelek 19</title>

<sect2 id="sect20" label="20">
<title>Razdelek 20</title>

<sect2 id="sect21" label="21">
<title>Razdelek 21</title>

<sect2 id="sect22" label="22">
<title>Razdelek 22</title>

<sect2 id="sect23" label="23">
<title>Razdelek 23</title>

<sect2 id="sect24" label="24">
<title>Razdelek 24</title>

<sect2 id="sect25" label="25">
<title>Razdelek 25</title>

<sect2 id="sect26" label="26">
<title>Razdelek 26</title>

<sect2 id="sect27" label="27">
<title>Razdelek 27</title>

<sect2 id="sect28" label="28">
<title>Razdelek 28</title>

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<title>Razdelek 29</title>

<sect2 id="sect30" label="30">
<title>Razdelek 30</title>

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<title>Razdelek 31</title>

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<title>Razdelek 32</title>

<sect2 id="sect33" label="33">
<title>Razdelek 33</title>

<sect2 id="sect34" label="34">
<title>Razdelek 34</title>

<sect2 id="sect35" label="35">
<title>Razdelek 35</title>

<sect2 id="sect36" label="36">
<title>Razdelek 36</title>

<sect2 id="sect37" label="37">
<title>Razdelek 37</title>

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<title>Razdelek 38</title>

<sect2 id="sect39" label="39">
<title>Razdelek 39</title>

<sect2 id="sect40" label="40">
<title>Razdelek 40</title>

<sect2 id="sect41" label="41">
<title>Razdelek 41</title>

<sect2 id="sect42" label="42">
<title>Razdelek 42</title>

<sect2 id="sect43" label="43">
<title>Razdelek 43</title>

<sect2 id="sect44" label="44">
<title>Razdelek 44</title>

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<title>Razdelek 45</title>

<sect2 id="sect46" label="46">
<title>Razdelek 46</title>

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<title>Razdelek 47</title>

<sect2 id="sect48" label="48">
<title>Razdelek 48</title>

<sect2 id="sect49" label="49">
<title>Razdelek 49</title>

<sect2 id="sect50" label="50">
<title>Razdelek 50</title>
Dovoljeno je razmnoevati in razirjati dobesedne izvode izvorne kode programa v enaki obliki, kot jo dobite, preko kateregakoli nosilca, e je le na vsakem izvodu razlono in primerno objavljeno obvestilo o pravicah razirjanja in zanikanje jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja. Razmnoujete in razirjate lahko dobesedne izvode izvorne kode knjinice v enaki obliki, kot jo dobite, preko kateregakoli medija, e le na vsakem izvodu razlono in primerno objavite obvestilo o pravicah razirjanja in zanikanju jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja.

Za fizino dejanje prenosa kopije lahko zaraunavate in po vai presoji lahko ponudite garancijsko zaito v zameno za plailo.

Razdelek 2

Dovoljeno je spreminjati svoj izvod ali izvode knjinice ali katerega koli njenega dela, in tako narediti delo, ki temelji na knjinici, ter razmnoevati in razirjati takne spremembe ali dela pod pogoji zgornjega Razdelka 2.d. torej zahteva, da katerakoli funkcija ali tabela, ki jo glavni program ponuja tej funkciji, ni obvezna za pravilno delovanje funkcije za izraun kvadratnih korenov.)

Te zahteve se nanaajo na spremenjeno delo kot celoto. e razdelki tega dela, ki jih je mogo spoznati, niso izpeljani iz knjinice in jih je mogo same po sebi utemeljeno obravnavati kot neodvisna in loena dela, potem to dovoljenje in njegova doloila za te razdelke ne velja, e jih razirjate kot loena dela. A e razirjate iste razdelke kot dele celote, ki je delo, ki temelji na knjinici, mora biti razirjanje celote izvedeno pod pogoji tega dovoljenja, katerega dovoljenja uporabne za druge uporabnike dovoljenja se razirijo na vso celoto, in torej na vsak njen del, ne glede na to, kdo ga je napisal.

Namen tega razdelka torej ni, da bi zanikal ali spodbijal vae pravice do dela, ki ste ga v celoti napisali sami; namesto tega je namen razdelka raziriti pravico nadzora nad razirjanjem izpeljanih ali zdruenih del, ki
temeljijo na knjini.</para>

<para>Poleg tega zgolj uvranje drugega dela, ki ne temelji na knjini, poleg knjine (ali poleg dela, ki temelji na knjini), na enoti nosilca ali mediju za razirjanje, se dovoljenje na to drugo delo ne nanaa.</para>

</listitem></sect2></para>

</sect2>

<sect2 id="sect3" label="3">
<title>Razdelek 3</title>

<para>Po elji lahko uporabite namesto tega dovoljenja za dani izvod knjine tudi pogoje navadnega Splonega dovoljenja GNU. e elite to storiti, morate spremeniti vsa sklicevanja na to dovoljenje tako, da se, namesto na to dovoljenje, sklicujejo na navadno Spono dovoljenje GNU (angl. GNU General Public License) različe 2. (e obstaja različica navadnega Splonega dovoljenja GNU tevilke, veje od 2, potem lahko, e tako elite, doloite te tevilko različe.) V teh obvestilih ne spreminjajte niesar drugega.</para>

<para>Ko se enkrat zgodi opisana sprememba za dani izvod, je za ta izvod to nepovratno, torej Spono dovoljenje GNU velja tudi za vse nadaljnje izvode in izpeljana dela, ki izvirajo iz tega izvoda.</para>

<para>Ta monost je uporabna, e elite prepisati del kode knjine v program, ki ni knjina.</para>
</sect2>

<sect2 id="sect4" label="4">
<title>Razdelek 4</title>

<para>Knjine (ali delo, ki temelji na njej, pod doloitil razdelka 2) je dovoljeno razmnoevati in razirjati v objektini kodi ali izvedljivi obliki pod pogoji zgornjih razdelkov razdelkov 1 in 2, e jo pospremite s popolno ustrezno strojno berljivo izvorno kodo, ki mora biti razirjana pod pogoji zgornjih razdelkov 1 in 2 na nosilcu, navadno uporabljanem za izmenjavo programja.</para>

<para>Se razirjanje objektne kode omogoa s ponujanjem dostopa do izvoda z dolonogodelnega mesta, potem pogoju za razirjanje izvorne kode zadoa tudi omogoenje enakega dostopa do izvode izvorne kode, eprav tretje osebe niso dolne razmnoevati izvorne kode poleg objektne kode.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>Razdelek 5</title>

<para>Program, ki ne vsebuje izpeljanke nobenega dela knjine, a je zasnovan tako, da deluje s to knjino tako, da je z njo preveden ali povezan, se imenuje delo, ki uporablja knjino. Tako delo samo po sebi ni iz knjine izpeljano delo, in torej ni predmet te licence. </para>

<para>Vendar povezovanje delo, ki uporablja knjino s knjino naredi izvedljivo datoteko, ki je izpeljanka te knjine (ker vsebuje dele knjine), in ne delo, ki uporablja knjino. Izvedljiva
datoteka je torej pokrita s to licenco. Pogoje razirjanja takih programov doloka<link linkend="sect6">razdelek 6</link>. </para>

<para>e <quote>delo, ki uporablja knjinico</quote> uporablja snov material iz glave, ki je del knjinice, je lahko objektna koda za delo izpeljano delo iz knjinice, eprav morda izvorna koda ni. Ali je to res je posebej pomembno, e je delo mo povezati brez knjinice, ali pa je delo samo po sebi knjinica. Zakon povsem ne doloa pogojev, pod katerimi to velja.</para>

<para>e ta objektna datoteka uporablja le numerine parametre, podatkovne strukture in naine dostopa, in male makroukaze in male vkljuene funkcije (dolge deset vrstic ali manj), potem uporaba objektne datoteke ni omejena, ne glede na to, da je pravno gledano to izpeljano delo. (Izvedljive datoteke, ki vsebujejo objektno kodo in dele knjinice, e vedno sodijo pod <link linkend="sect6">razdelek 6</link>.)</para>

<para>e je sicer delo izpeljano iz knjinice, lahko razirjate izvorno kodo dela pod pogoji <link linkend="sect6">razdelka 6</link>. Katerekoli izvedljive datoteke, ki tudi vsebujejo delo, sodijo pod <link linkend="sect6">razdelek 6</link>, ne glede na to, ali so neposredno povezane s samo knjinico ali ne.</para>

<sect2 id="sect6" label="6">  <title>Razdelek 6</title>

<para>Kot izjemo glede na zgornje razdelke lahko tudi kombinirate ali povezujete <quote>delo, ki uporablja knjinico</quote> s knjinico, ki izdela delo, ki vsebuje dele knjinice, in razirjate to delo pod pogoji po vai izbiri, e ti pogoji dovoljujejo spreminjanje dela za uporabnikovo lastno rabo in obratni ineniring za razhroevanje taknih sprememb.</para>

<para>Poleg vsakega izvoda dela morate dodati jasno obvestilo, da delo uporablja knjinico in da rabo knjinice doloa ta licenca. Oddati morate tudi izvod te licence. e delo med izvajanjem izpisuje pravice razirjanja, morate med njimi vkljuiti tudi sporoto o pravicah razirjanja za knjinico, kot tudi sklic, ki usmerja uporabnika na izvod te licence. Narediti morate tudi eno od teh stvari: <orderedlist numeration="loweralpha">

<listitem><para>Opremite delo s popolno ustrezno strojno berljivo izvorno kodo za knjinico, vkljuno z vsemi spremembami v tem delu (ki mora biti razirjano pod pogoji zgornjih razdelkov <link linkend="sect1">1</link> in <link linkend="sect2">2</link>); in, e delo ni izvedljivo povezano s knjinico, popolno strojno berljivo <quote>delo, ki uporablja knjinico</quote>, kot objektno kodo in/ali izvorno kodo, tako da lahko uporabnik spremeni knjinico in potem vnovi povee program, da izdela spremenjeno izvedljivo datoteko, ki vsebuje spremenjeno knjinico. (Razume se, da uporabnik, ki spremeni vsebino definicijskih datotek v knjinici, morda ne bo mogel vnovi prevesti programa, da bi uporabil spremenjene definicije.)</para>

<listitem><listitem>

<para>Za povezovanje s knjinico uporabite primeren mehanizem deljenih knjinc. Primeren mehanizem (1) ob teku uporablja izvod programa, ki e obstaja v uporabnikovem raunalnikem sistemu, namesto, da bi prepisal knjinine funkcije v samo izvedljivo datoteko, in (2) pravilno deluje s spremenjeno razliico knjinice, e jo uporabnik namesti, e je le vmesnik spremenjene razliice združljiv z razliico, za katero je bilo delo izdelano.</para>

<listitem>

<listitem><para>Opremite delo s pisno ponudbo, veljavno vsaj tri leta, ki ponuja istemu uporabniku gradiva, doloena v zgornjem <link linkend="sect6">podrazdelku 6a</link>, proti plialu zneska, ki ne presega dejanskih strokov. </para></listitem>
</listitem>
</listitem>

</sect2>
taknega razirjanja. </para>
<listitem>
<para>e se razirjanje dela izvede s ponujenim dostopom do izvoda z doloenega mesta, potem ponujanje
ekvivalentnega dostopa za razmnoevanje zgoraj navedenih gradiv z istega mesta teje kot razirjanje izvorne
kode.</para>
</listitem>
</listitem>
<para>Pri izvedljivem delu mora zahtevana oblika <quote>dela, ki uporablja knjinico</quote> vključevati vse
podatke in pomone programe, potrebne za ponovno izdelavo izvedljive datoteke iz nje. Vendar - kot posebna izjema
- ni nujno, da razirjano gradivo vključuje vse, kar se navadno razirja (v izvorni ali strojni obliki) z vejimi
komponentami (prevajalnik, jedro, itn.) operacijskega sistema, na katerem tee izvedljiva datoteka, razen e ta
komponenta spremlja izvedljivo datoteko.</para>
<para>Lahko se zgodi, da te zahteve nasprotuje licenčnim omejitvam drugih lastnikih knjinic, ki navadno ne
spremljajo operacijskega sistema. Takno nasprotovanje pomeni, da jih ne morete uporabljati hkrati s knjinico v
izvedljivi datoteki, ki jo boste razirjali.</para>
</sect2>

<sect2 id="sect7" label="7">
<title>Razdelek 7</title>
<para>Dele knjinice, ki so dela, temeljea na Knjinici, lahko uvrstite v skupno knjinico z drugimi deli knjinice, ki
jih ta Licenca ne pokriva, ter razirjate takno kombinirano knjinico, e je sicer dovoljeno loeno razirjati Knjinico in
druge dele knjinice, in e naredite naslednji stvari:</para>
<orderedlist numeration="loweralpha">
<li><para>Kombinirano knjinico pospremite z izvodom istega dela, ki temelji na Knjinici, brez kakrnihkoli dodatnih
delov knjinice. To se mora razirjati pod pogoji iz zgornjih razdelkov.</para></li>
<li><para>Poleg kombinirane knjiice podajte vidno obvestilo, da deli knjinice temeljijo na Knjinici, in pojasnite, kje
najti ustrezno nekombinirano obliko istega dela.</para></li>
</orderedlist>
</sect2>

<sect2 id="sect8" label="8">
<title>Razdelek 8</title>
<para>Knjinice ni dovoljeno razmnoevati, spreminjati, podrejati dovoljenja, jo povezovati ali razirjati, e to ni
izrecno dovoljeno s priujoim dovoljenjem. Vsak sicernji poskus razmnoevanja, spreminjanja, podrejanja dovoljenja,
povezovanja ali razirjanja knjinec je njen in vam samodejno odvzame pravice, izhajajoce iz tega dovoljenja. Vendar pa se osebam, ki so svoj izvod ali pravice dobile od vas pod tem dovoljenjem, dovoljenje ne prekine, dokler jo v celoti spotujejo. </para>
</sect2>

<sect2 id="sect9" label="9">
<title>Razdelek 9</title>

<para>Ni vam treba sprejeti pogojev dovoljenja, saj ga niste podpisali. Vendar vam brez slednjega ni ne dovoljuje spreminjanja ali razirjanja knjinec ali iz nje izpeljanih del. e ne sprejmete tega dovoljenja, so ta dejanja nezakonita. Torej, s spremembo ali razirjanjem knjinec (ali kateregakoli dela, ki temelji na knjinci) pokaete svoje strinjanje s tem dovoljenjem in z vsemi njegovimi doloili in pogoji za razmnoevanje, razirjanje ali spreminjanje knjinec ali del, ki temeljijo na njej. </para>
</sect2>

<sect2 id="sect10" label="10">
<title>Razdelek 10</title>

<para> Vsaki, ko razirjate knjinec (ali katerokoli delo, ki temelji na knjinci), prejemnik samodejno prejme dovoljenje izvornega izdajatelja dovoljenja (angl. original licensor) za razmnoevanje, razirjanje, povezovanje ali spreminjanje knjinec glede na ta doloila in pogoje. Ni dovoljeno vsiljevati nobenih nadaljnjih omejitev izvajanja prejemnikovih pravic, podeljenih tukaj. Niste odgovorni za vsiljevanje strinjanja tretjih oseb s tem dovoljenjem. </para>
</sect2>

<sect2 id="sect11" label="11">
<title>Razdelek 11</title>

<para>e so vam, kot posledica presoje sodia ali suma kritve patenta ali iz katerega koli drugega razloga (ne omejenega zgolj na patentna vpraanja), vsiljeni pogoji (bodisi z odlokom sodia, sporazumom ali drugae), ki nasprotujejo pogojem tega dovoljenja, vas ne odvezujejo spotovanja pogojev tega dovoljenja. e knjinec ne morete razirjati tako, da hkrati zadostite svojim obvezam pod tem dovoljenjem in vsem drugim ustreznim obvezam, potem posledino sploh ne smete razirjati knjinec. Na primer, e patentno dovoljenje ne dovoli razirjanja knjinec brez plaevanja avtorskega honorarja vseh, ki prejmejo izvode neposredno ali posredno od vas, potem je edina mona pot, da zadostite temu pogoju in temu dovoljenju, ta, da se v celoti vzdrite razirjanja knjinec. </para>
<para>e se za katerikoli del tega razdelka ugotovi, da je neveljaven ali da ga ni mogoe izvajati pod nobenim doloenim pogojem, je miljeno, da velja usmeritev tega razdelka (angl. balance of the section) in razdelek kot celota velja v drugih primerih. </para>
<para>Namen tega razdelka ni, da bi vas napeljeval h kritvi patentov ali drugih trditev lastnitva pravic ali izpodbijal veljavnost katerihkoli taknih trditev; edini namen tega razdelka je itenje integritete sistema razirjanja proste programske opreme, ki je izveden s prakso javnih dovoljenj. Mnogi ljudje so radodarno prispevali k irokemu naboru programske opreme, razirjane preko tega sistema, v upanju na njegovo dosledno izvajanje; od avtorja/dajalca je odvisno, e je pripravljen razirjati programje skozi katerikoli drug sistem, in izdajatelj dovoljenja ne more vsiljevati te izbire. </para>
<para>Ta razdelek namerava temeljito pojasniti, kaj so predvidene posledice preostalega besedila
e sta razirjanje in/ali uporaba knjnice v doloenih dravah omejena, bodisi zaradi patentov ali avtorsko zaintenih vmesnikov, lahko izvorni lastnik ali lastnica avtorskih pravic, ki postavlja knjino pod to dovoljenje, doda izrecno zmljepisno omejitev razirjanja, ki izkljuje te drave, tako da je razirjanje dovoljeno le v in med dravami, ki niso na tak način izkljuene. V takem primeru to dovoljenje vkljuje omejitve, kot da so zapisane v besedilu tega dovoljenja.</para>

Ustanova Free Software Foundation lahko od asa do asa izdaja preurejene in/ali nove razliice Manj splošnega dovoljenja (angl. Lesser General Public License). Nove razliice bodo pisane v duhu trenutne razliice, vendar se lahko razlikujejo v podrobnostih, ki bodo obravnavale nove teave ali poglede.</para>

Vsaki razliici je doloena razloevalna tevilka razliice. e knjina doloa tevilko razliice tega dovoljenja, ki se nanaa nanjo in na katero koli poznejo razliico, imate izbire upotevanja pogojev in doloil bodisi te razliice ali poljubne nasne razliice, ki jo je izdala ustanova Free Software Foundation. e knjina ne doloa tevilke razliice tega dovoljenja, lahko izberete poljubno razliico, ki jo je kdajkoli izdala ustanova Free Software Foundation.</para>

elite vkljuiti dele knjnine v drugo prosto programsko opremo, katere pogoji razirjanja so drugani od teh, piite avtorju in ga prosite za dovoljenje. Za programje, katerega pravice razirjanja ima Free Software Foundation, piite na Free Software Foundation; vasih pri tem naredimo izjemo. Nao odloitev bosta vodila dva cilja: ohranite prostega statusa vseh izvedenih del iz nae proste programske opreme in spodbujanje razdeljevanja in ponovne uporabe programja na splono.</para>

KER JE KNJINICA Z DOVOLJENJEM OPREDELJENA KOT BREZPLANA, NI NOBENEGA JAMSTVA ZA KNJINICO DO JEJE, KI JI DOLOA PRISTOJNI ZAKON. E NI DRUGAE ZAPISANO, IMETNIKI PRAVIC RAZIRJANJA IN/ALI DRUGE OSEBE PONUJAJO KNJINICO TAKNO, KOT JE</para>
POTREBNIH STORITEV, POPRAVIL ALI POPRAVKOV.

V NOBENEM PRIMERU, RAZEN E TAKO PRAVI VELJAVNI ZAKON ALI JE PISNO DOGOVORJENO, NE BO LASTNIK PRAVIC RAZIRJANJA ALI KATERAKOLI DRUGA OSEBA, KI LAHKO SPREMENI IN/ALI PONOVO RAZIRJA KNJINICO, KOT JE DOVOLJENO ZGORAJ, PREVZEL ODGOVORNOSTI ZARADI KODE, NAJSI GRE ZA SPLONO, POSEBNO, NENAMERNO KODO ALI KODO, IZHAJAJOO IZ UPORABE ALI NEZMONOSTI UPORABE KNJINICE (VKLJUNO Z, A NE OMEJENO NA, IZGUBO PODATKOV ALI NENATANNO OBDELAVO PODATKOV ALI IZGUBO, POVZROENO VAM ALI TRETJIM OSEBAM ALI NEZMONOST KNJINICE, DA BI DELOVALA S KAKO DRUGO PROGRAMSKO OPREMOM), ETUDI JE BIL TAK LASTNIK ALI DRUGA OSEBA OBVEEN O MONOSTI NASTANKA TAKNE KODE.
We protect your rights with two steps:

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- offer you this license which gives you legal permission to copy, distribute and/or modify the software.
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be...
licensed as a whole at no charge to all third parties under the terms of this License.

If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

<note>
<title>Exception:</title>
<para>
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
</para>
</note>

You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

<orderedlist numeration="loweralpha">
<li>
Accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, 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GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, GNU, 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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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<orderedlist numeration="loweralpha">
<listitem>
<para id="sect6a">
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <link linkend="sect1">1</link> and <link linkend="sect2">2</link> above); and, if the work is an executable linked with the Library, with the complete machine-readable <quote>work that uses the Library</quote>, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
</para>
</listitem>
<listitem>
<para>
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
</para>
</listitem>
<listitem>
<para>
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>
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Version 2, Juni 1991

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Vi skyddar dina rttigheter i tv steg: <orderedlist numeration="arabic">

<li>upphovsrtt till programvaran och</li>
<li>dessa licensvillkor som ger dig rtt att kopiera, distribuera och eller ndra programvaran.</li>
</orderedlist>

Fr varje upphovsmans skerhet och vr skerhet vill vi fr tydlighets skull klargra att det inte lmnas ngra garantier fr den hr fria programvaran. Om programvaran frndras av ngon annan n upphovsmannen vill vi klargra fr mottagaren att det som mottagaren har r inte originalversionen av programvaran och att frndringar av och felaktigheter i programvaran inte skall belasta den ursprunglige upphovsmannen.

Slutligen skall det sgas att all fri programvara stadigt hotas av programvarupatent. Vi vill undvika att en distributr eller vidareutvecklare av fri programvara individuellt skaffar patentlicenser till programvaran och drmed gr programvaran till freml fr gandertt. Fr att undvika det hr har vi gjort det tydligt att samtliga programvarupatent mste registreras fr allas fria anvndning eller inte registreras alls.

Hr nedan fljer licensvillkoren fr att kopiera, distribuera och ndra programvaran.
VILLKOR FRÅT KOPIERA, DISTRIBUERA OCH NDRA PROGRAMVARAN

Paragraf 0


Paragraf 1

Du ger kopiera och distribuera exakta kopior av Programvarans källkod som du mottog den, i alla medier, frutsatt att Du tydligt och på ett skilt sätt på varje exemplar fäster en riktig upphovsrättsklausul och garantiavskel, vidhåller alla hänvisningar till dessa licensvillkor och till alla garantiavskel samt att till alla mottagaren av Programvaran ge en kopia av dessa licensvillkor tillsammans med Programvaran.

Paragraf 2

Du ger ndra dit exemplar eller andra kopior av Programvaran eller någon del av Programvaran och drmed skapa ett Verk baserat på Programvaran, samt att kopiera och distribuera sådana frändrade versioner av Programvaran eller verk enligt villkoren i [link linkend="sect1"] paragraf 1 ovan, frutsatt att du ocks uppfyller fljande villkor: <orderedlist numeration="loweralpha">

- Du tillser att de frändrade filerna har ett tydligt meddelande som berättar att Du ndrat filerna samt vilket datum dessa ndrar gjordes.
- Du tillser att alla verk som du distribuerar eller offentliggör som till en del eller i sin helhet innehåller eller r hrlätt frn Programvaran eller en del av Programvaran, licensieras i sin helhet, utan kostnad till tredje man enligt dessa licensvillkor.
Om den frändade Programvaran i sitt normala utfrande kan utfra interaktiv kommandon nr det krs, mste Du tills att nr Programmet startas skall det skriva ut eller visa, p ett enkelt tillgngligt stt, ett meddelande som tydligt och p ett skligt stt p varje exemplar fster en riktig upphovsrtsklausul och garantivisning (eller i frekommande fall ett meddelande som klargr att du tillhandahller en garanti) samt att mottagaren ger distribuera Programvaran enligt dessa licensvillkor samt berta hur mottagaren kan se dessa licensvillkor.

Undantag:
Frn den hr skyldigheten undantas det fall att Programvaran frvisso r interaktiv, men i sitt normala utfrande inte visar ett meddelande av den hr typen. I sdant fall behver Verk baserat Programvaran inte visa ett sdant meddelande som nmns ovan.

Dessa krav gller det frändade verket i dess helhet. Om identifierbara delar av verket inte hrrr fr Programvaran och sklagen kan anses vara fristende och slystndiga verk i sig, d skall dessa licensvillkor inte glla i de delarna nr de distribueras som egna verk. Men om samma delar distribueras tillsammans med en helhet som innehller verk som hrrr fr Programvaran, mste distributionen i sin helhet ske enligt dessa licensvillkor. Licensvillkoren skall i sdant fall glla fr andra licenstagare fr hela verket och slunda till alla delar av Programvaran, oavsett vem som r upphovsman till vilka delar av verket.

Den hr paragrafen skall slunda inte tolkas som att ansprk grs p rttigheter eller att ifrgastta Dina rttigheter till programvaram skrivits helt av Dig. Syftet r att tillse att rtten att kontrollera distributionen av derivativa eller samlingsverk av Programvaran.

Frekomsten av ett annat verk p ett lagringsmedium eller samlingsmedium som innehller Programvaran eller Verk baserat p Programvaran leder inte till att det andra verket omfattas av dessa licensvillkor.

Du ger kopiera och distribuera Programvaran (eller Verk baserat p Programvaran enligt <link linkend="sect2">paragraf 2</link>) i objektkod eller i krbar form enligt villkoren i <link linkend="sect1">paragraf 1</link> och <link linkend="sect2">2</link> frutsatt att Du ocks gr en av fljande saker: 

- Bifogar den kompletta kllkoden i maskinsbar form, som mste distribueras enligt villkoren i <link linkend="sect1">paragraf 1</link> och <link linkend="sect2">2</link> p ett medium som i allmnhet anvnds fr utbyte av programvara, eller
- Bifogar ett skriftligt erbjudande, med minst tre rs giltighet, att ge tredje man, mot en avgift som hgst uppgr till Din kostnad att utfra fysisk distribution, en fullstndig kopia av kllkoden i maskinsbar form, distribuerad enligt villkoren i paragraf 1 och 2 p ett medium som i allmnhet anvnds fr utbyte av programvara, eller
- Bifogar det skriftligt erbjudande Du fick att erhlla kllkoden. (Det hr alternativet kan endast anvandas fr
Om Du p grund av domstolsdom eller anklagelse om patentintrng eller p grund av annan anledning (ej begrnsat till patentfrgor), Du fr villkor (oavsett om de kommer via domstols dom, avtal eller p annat stt) som strider mot dessa licensvillkor s frntar de inte Dina frpliktelser enligt dessa licensvillkor. Om du inte kan distribuera Programvaran och samtidigt uppfylla licensvillkor och andra skyldigheter, fr du som en konsekvens inte distribuera Programvaran. Om exempelvis ett patent gr att Du inte distribuera Programvaran fritt till alla de som mottager kopior direkt eller indirekt frn Dig, s mste Du helt sluta distribuera Programvaran.</para>

Om delar av den hr paragrafen frklaras ogiltig eller annars inte kan verkstllas skall resten av paragrafen ga fortsatt giltighet och paragrafen i sin helhet ga fortsatt giltighet i andra sammanhang.</para>

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</sect2>

<sect2 id="sect11" label="11">
<title>INGEN GARANTI</title>
<subtitle>Paragraf 11</subtitle>

<para>D DENNA PROGRAMVARA LICENSIERAS UTAN KOSTNAD GES INGEN GARANTI FR PROGRAMMET, UTMAN SDAN GARANTI SOM MSTE GES ENLIGT TILLMPLIG LAG. FRUTOM D DET UTRYCKS I SKRIFT TILLHANDAHILLER UPHOVSRRTTSINNEHAVAREN OCH/ELLER ANDRA PARTER PROGRAMMET <quote>I BEFINSTILT SKICK</quote> (<quote>AS IS</quote>) UTAN GARANTIERE AV NGRA SLAG, VARKEN UTRYCKLIGA ELLER UNDERFRSTDDDA, INKLUSIVE, MEN INTE BEGRNSAT TILL, UNDERFRSTDDDA GARANTIER VID KP OCH LAMPLIGHET FR ETT SRSKILT NDAML. HELA RISKEN FR KVALITET OCH ANYNDBARHET BRS AV DIG. OM PROGRAMMET SKULLE VISA SIG HA DEFEKTER SKALL DU BRA ALLA KOSTNADER FR FELETS AVHJLPANDE, REPARATIONER ELLER ndvndig SERVICE.</para>
</sect2>

<sect2 id="sect12" label="12">
<title>Paragraf 12</title>

<para>INTE I NGOT FALL, UTOM NR DET GLLER ENLIGT TILLMPLIG LAG ELLER NR DET VERENSKOMMITS SKRFTLIGEN, SKALL EN UPHOVSRRTTSINNEHAVARE ELLER ANNAN PART SOM GER NDRA OCH/ELLER DISTRIBUERAR PROGRAMVARAN ENLIGT OVAN, VARA SKYLDIG UTGE ERSTTNING FR SKADA DU LIDER, INKLUSIVE ALLMN, DIREKT ELLER INDirekt SKADA SOM FLJER P GRUND AV ANVNDNING ELLER OMLIGHET ATT ANVNDA PROGRAMVARAN (INKLUSIVE MEN INTE BEGRNSAT TILL FRLUST AV DATA OCH INFORMATION ELLER DATA OCH INFORMATION SOM FRAMSTLLTS FELAKTIGT AV DIG ELLER TREDJE PART ELLER FEL DR PROGRAMMET INTE KUNNAT KRAS SAMTIDIGT MED ANNAN PROGRAMVARA), VEN OM EN SDAN UPHOVSRRTTSINNEHAVARE ELLER ANNAN PART UPPLYSTS OM MJLIGHETEN TILL SDAN SKADA.</para>
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</sect1>
</article>
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Mi ngi u uc quyn sao chp v phn phi nguyn vn ti liu giy php ny, nhng khng c php thay i n.

Phin bn 2.1, thng 2/1999

Giy php s dng ca hu ht cc phn mm c thit k bn khng c t do chia s v thay i phn mm. Tri li, cc Giy php Cng cng GNU d nh m bo cho bn c t do chia s v thay i phn mm mt cch t do, v m bo phn mm t do cho mi ngi s dung.

Li m u

Giy php s dng ca hu ht cc phn mm c thit k bn khng c t do chia s v thay i phn mm. Tri li, cc Giy php Cng cng GNU d nh m bo cho bn c t do chia s v thay i phn mm mt cch t do, v m bo phn mm t do cho mi ngi s dung.

Khi chng ti ni v phn mm t do, chng ti cp n s t do s dung, ch khng phi l gi c. Giy php Cng cng GNU ca chng ti c thit k m bo bn c quyn t do ph hnh bn sao ca phn mm t do (v thu tin dch v ny nu mun), nhn m ngun hoc c kh nng ly n nu bn mun, bn c th thay i phn mm hay s dung bt k on no ca n trong chng trnh t do mi; v gip bn bit r l bn c th lm nhng lu ny.
Giy php ny, Giy php Cng cng Ph, p dng cho mt s gi phn mm ch r c bit thng th vin ca T chc Phn mm T do v cc tc gi khc chn s dng n. Bn cng c th s dng n, nhng tre tin ngh bn ngh cn thn nu giy php ny hay Giy php Cng cng chn l chin lc tt hn trong trng hp ring no, da vo cc li gi thch bn di.  

Chi chng ti ni v phn mm t do, chng ti cp n s t do s dng, ch khng phi l gi c. Cc Giy php Cng cng ca chng ti c thit k m bo bn c quyn t do pht hnh bn sao ca phn mm t do (v thu tin dch v ny nu mun), nhn m ngun hoc c kh nng ly n nu bn mun, bn c th thay i phn mm hay s dng bt k on no ca n trong chng trnh t do mi; v gip bn bit r l bn c th lm nhng iu ny.  

Bo v quy ln l ca bn, chng ti cn a ra nhng hn ch cm bt c ai ph nhn bn c nhng quy ny hay i hi bn t b n. Nhng s hn ch ny c hiu l mt s trch nhim nght thit ca bn nu bn pht hnh bn sao ca th vin hoc sa i n.  

Chng hn, nu bn pht hnh bn sao ca th vin nh vy, d l cho khng hay thu tin, bn phi trao cho ngi nhn tt c nhng quy n bn c. Bn phi chc chnh l h cng nhn c hay c th ly m ngun. Nu bn lin kt m ngun hkh vi th vin, bn phi cung cp cc tp tin i trng hon thnh cho ngi nhn, h c th lin kt li tp tin nh vy vi th vin ri bin dch li. V bn cng phi cho h bit nhng iu kin ny, h bit nhng quy na c h.  

Chng ti bo v quy ln ca bn bng mt phng php hai bc: (1) chng ti bn quy ln tc gi ca th vin, v (2) chng ti trao cho bn giy php ny bn c quyn hp php sao chp, pht hnh v/hay sa i th vin.  

Hn na, bo v mi nghi pht hnh, chng ti mun chc chnh l mi nghi hiu rng th vin t do ny khng c bo hnh. Nu th vin b sa i bi nghi khc v c pht tip, chng ti mun nghi nhb bit rng ci m h c khng phi l bn ge, v vy, bt k li no do nghi khc gy ra s khng lm mang ting n tc gi ge.  

Cui cng, chng trnh t do no cng lnh b e da bi bng snh ch phn mm. Chng ti mun chc chnh l cng ty khng th gii hn c cc nghi dng chng trnh t do, bng ccc xnh c giy php nh ch t nghi gi snh ch. V vy chng ti c nh nh giy php snh ch no c ginh cho mt phnh bn ca th vin ny phi ph hp vi ton b quy ln t do c ghi r trong giy php ny.  

Phn ln phnh mm GNU, gm c mt s th vin, c bao qut bi Giy php Cng cng GNU chnh. Giy php ny, Giy php Cng cng Ph GNU, p dng cho mt s th vin xc nh: n rt khc vi Giy php Cng cng GNU chnh. Chng ti s dng giy php ny cho mt s th vin ring, cho php kh nng ln kt th vin nh vy vo chng trnh khc t do.  

Khi chng trnh c ln kt vi th vin, bt chp mt cch tuh hay bng th vin dng chung, s kt hp hai iu ny ni hp ph l mt sn phnh kt hp, sn phnh dn xut th vin ge. Giy php Cng cng GNU chnh th cho php kh nng ln kt nh vy ch nu ton b s kt hp tho tiu chun quy ln t do ca n. Giy php Cng cng Ph GNU cho php tiu chun lng lo hn ln kt m ngun khc vi th vin.  

Chng ti gi giy php ny Giy php Cng cng <quote>Ph</quote> v n ln t bo v quy ln t do ca nghi dng hn Giy php Cng cng chnh. N cng cung cp cho cc nh phn trnh phnh mm t do t th li hn chng trnh khc t do cnh trnh. Nhng nhc im ny l l do chng ti s dng Giy php Cng cng chnh cho rt nhieu th vin. Tuy nhin, giy php Ph cung cp li ch trong mt s trng hp c bit.  

Chng hn, rt ln c nh c cu c bit h tr cch s dng rng ri nht c th mt th vin no, nu tr thnh mt tiu chun nh th. t mc ch ny, cc chng trnh khc t do cng phi c quy ln s dng th vin. Mt trng hp xy ra nhieu hn ln th vin t do lm cng mt cng vic vi th vin khc t do c s dng rng ri. Trong trng hp ny, khng c li ch nhieu khi gii hn th vin t do trong ch phnh mm t do, v th chng ti s dng Giy php Cng cng Ph.
Trong trình hp khoa, quyn s dng mt th tin no trong chng trnh khoa t do cng cho rt nhu nhg c kh nng s dng mt tp phn mm t do rt ln. Chng hn, quyn s dng Th tin C ca GNU trong cc chng trnh khoa t do th cho rt nhu nhg thm c kh nng s dng ton b h iu hnh GNU, cng nh bin th ca n, h iu hnh GNU/Linux.</para>

Mc d Giy php Cng cng Ph ln t hn bo v quy tin t do ca ngi dng, n c phi m bo rng ngi dng chng trnh c lin kt vi Th tin c quyn t do v kh nng chy chng trnh, bng mt phn bn sa i ca Th tin.</para>

Theo y c nhng iu kin chnh xe so sap thn, phn hnh v sa i. Hy tp trung cn thn s kho bit gia mt sn phm da vo th tin v mt sn phm s dng th tin.</quote>. iu tre cha m bt ngun t th tin, en iu sau phi c kt hp vi th tin chy c.</para>

IU KIN SAO CHP, PHT HNH V SA 1</title>

Phn 0</title>

iu kin Quyn ny p dng cho kt th vin phn mm hay chng trnh khoa m cha mt thng bo c chn vo bi ngi gi tc quy nh bt k bn c quy nh nt c th c phn hnh theo cc iu khon ca Giy php Cng cng Ph ny (cng c gi nh l Giy php ny). Mi ngi c cp bn quy c gi l</quote>. bn</quote>.</para>

Mt</quote> th din</quote> ngha l mt tp hp cc hm phn mm v/hay d l u c chun b c lin kt tin li vi chng trnh ng dng (m s dng mt s hm v/d l u trong tp hp ny) xy dng tp tin c kh nng th hin.</para>

Mt</quote> sn phm da trn Th tin</quote> c ngha l Th tin hay bt k sn phm no bt ngun t di lut bn quy n: tc l, sn phm cha Th tin hay mt phn ca n, hoc ng nguy n vn hoc vi s sa i v/hoc c dch sang mt ngn ng kho. (K t cu ny, vic dch ngn ng c bao gm v hn trong thut ng</quote> sa i</quote>.)</para>

Mt</quote> ngun</quote> ca sn phm c ngha l dng thc sn phm c a thc khi sa i n. i vi th tin, ton b m ngun c ngha l tt c cc m ngun cho mi m-un cha, cng vi bt c tp tin xc nh gia din tng ng, cng vi cc vn lnh c dng iu khin tin trnh bin dch v ci t th vin.</para>

Nhng hot ng kho ngoi s soa cph, phn hnh v sa i khng c kim sot bi Giy php ny; n ngoi phm vi ca giy php ny. Hnh ng chy Th tin khng b bn ch, v d l u x t t Th tin ch b khng ch nu ni dung ca n to thnh mt sn phm da vo Th vin (khng ph thuc vo vic s dng Th tin nh l cng c gi nh n). iu ng hay khng ph thuc vo iu m Th tin to ra, v iu m chng trnh s dng Th tin to ra.</para>

<sect2 id="sect1" label="1" title="Phn 1">

Bn c quyn soa cph v phn hnh bn soa ng nguy n vn ca ton b m ngun ca Th tin nh bn nhn n, bng bt k c ch no, min l bn cng b r rng v thc ng trn mi bn sao mt thng bo tc quy thc hp v min tr bo hnh; gi nguy n vn mi thng bo lin quan n Giy php ny v min tr bo hnh; v a cho nhng ngi nhn Chng trnh khoa mt bn soa ca Giy php cng vi Th vin.</para>

Bn c th th ph cho vic gi bn sao, v bn c th ty ngh cung cp dch v bo hnh c thu ph.</para>
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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Câu 4

Bn c quyn sao chp v pht hnh Th vin (hoc on no ca n hoc sn phm da vo n, di <link linkend="sect2">Phn 2</link>) trong dng the m i tng hay tp tin chy c vi iu kin ca <link linkend="sect1">Phn 1</link> v <link linkend="sect2">Phn 2</link> bn trn, min l bn km theo ton b m ngun tng ng m my c th c c. c pht hnh vi iu kin ca Phn <link linkend="sect1">Phn 1</link> v <link linkend="sect2">Phn 2</link> bn trn, trn thit b lu tr thng dng trao i phn mm.</para>

<h1>Phn 5</h1>

Mt chng trnh khng cha sn phm bt ngun t bt c on no ca Th vin, cn c thit k lm vic vi Th vin bng cch c bin dch hay lin kt vi n, c gi l <quote>sn phm s dng Th vin</quote>. Sn phm nh vy, c lp khng phi l sn phm bt ngun t Th vin th nm ngoi phm vi ca Giy ph ny. (Phn 5)</h1>

<h2>Phn 6</h2>

Ngoi l nhng Phn trn l bn cng c th kt hp hay lin kt mt <quote>sn phm s dng Th vin</quote> vi Th vin to mt sn phm cha on ca Th vin, ri pht hnh sn phm di cc iu khon bn chn, min l iu khon ny cho php s i sn phm cho ngi khch s dng ring, v cho php thit k i chiu g li trong s sa i nh vy.
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  <listitem>
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    </para>
  </listitem>
  <listitem>
    <para>
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    <para>
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    </para>
  </listitem>
  <listitem>
    <para>
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  </listitem>
</orderedlist>
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

<i>vi tp tin chy c, dng the cn thit ca <quote>sn phm s dang Th vin</quote> phi cha chng trnh no kiu d liu hay tin ch cn thit to li tp tin chy c t n. Tuy nhin, ngoi l c bit l cc nguyen liu c phth hnh khng cn phi bao gm nhng g c phth hnh bnh thng (trong dng the hoc ngun hoc nh phn) vi cc thanh phn chnh (b bin dch, ht nhn v.v.) ca h iu hnh ni tp tin chy c hot ng, tr khi thanh phn km theo cn thit chy tp tin.</i>

<i>C th xy ra rng iu kin ny mu thun s hn ch giy php ca th vin s hu khih khng bnh thng km theo h iu hnh. S mu thun nh vy c ngha l bn khih th s dang c th vin nh vy v Th vin u trong tp tin chy c bn phth hnh.</i>

<i>Bn c th che nng th vin l sn phm da vo Th vin cnh nhau trong mt th vin ring l, cng vi cc che nng th vin khng c bao qut bi Giy php ny, v phth hnh th vin kt hp nh vy, min l cho php phth hnh ring <quote>sn phm s dang Th vin</quote> v che nng th vin khi, v min l bn lm hai vic ny:</i>

<i>Km theo th vin kt hp nt bn sao ca cng <quote>sn phm s dang Th vin</quote>, ring vi che nng th vin khi no. N phi c phth hnh vi cc iu khon ca nhng Phn trn.</i>

<i>Cng b r rng trn th vin kt hp thng bo rng phn ca n l <quote>sn phm s dang Th vin</quote>, cng ch ti ni cha dng the ring ca cng sn phm km theo.</i>

<i>Khung cho php bn sao chp, sa i, lin kt vi hay phth hnh Th vin, tr vi iu kin c din t dt khot trong Giy php ny. Bt k s c gng no trong vic sao chp, sa i, cp giy php ph, lin kt vi hay phth hnh Th vin bng cch khih b bi b, v s t ng kt thc cc quyn ca bn di Giy php ny. Tuy nhin, ngi khih nhn bn sao hay quyn t bn di Giy php ny s khng b nh hng, min l h tip tc tun theo hon ton.</i>
<sect2 id="sect9" label="9">
<title>Phn 9</title>

<para>Bn khng bt buc phi chp nhn Giy php ny, v bn cha k trn vo n. Tuy nhin, khng c g khe cho php bn sa i hay ph ch Th vin hay sn phm bt ngun tr n. Cc hhng ng y b php lut cm nu bn knh cphp nhn Giy php ny. V vy, bng cch sa i hay ph ch Th vin (hay sn phm da vo n), bn ng s chp nhn Giy php ny lm nh th, gm mi iu kin sao cphp, phh hh nh sa i Th vin hay sn phm da vo n.</para>

</sect2>

<sect2 id="sect10" label="10">
<title>Phn 10</title>

<para>Mi ln bn phth hh li Th vin (hay sn phm da vo Th vin), ngi nhn c th nhn t ng mt giy phphp t ngi cp gc, sao cphp, phth hh, lin kt vi hay sa i Th vin vi iu kin ky. Khng cho php bn ln ch thm cch ngi dng s dng cc quyn c cp trong Giy phphp ny. Bn cng khng phi chu trch nhim v vic p buc ngi khe tun theo iu kin ca Giy php ny.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>Phn 11</title>

<para>Nu, do kt qu ca quy nh ca to n hay cc co buc vi phm bng sng ch hay v bt c l do no (khng b gii hn trong vn bng sng ch), bn b p buc chp nhn iu kin (hoc v quy nh ca to n, s tho thun hoc cch khe no) m mu thun iu kin ca Giy phphp ny, trng hp ny khng min cho bn khng phi tha mn iu kin ca Giy php ny. Nu bn khng th phht hhng bch tha mn ng thi cc gia c ca bn di Giy php ny v bt k gia o thch hp khe, th kt qu l khng cho php bn phth hh Th vin bng cch no c. Ly th d, nu mt bng sng ch no khng cho php s phth hh Th li Th vin mt cch min tin bn quynt phht minh cho mi ngi nhn bn sao t bn mt cch trc tip hay gin tip, th cch duy nh bt c th th ca c bng v Giy php ny l hon ton khng phht hh Th vin.</para>

</sect2>

<sect2 id="sect12" label="12">
<title>Phn 12</title>

<para>Nu on no trong phn ny c quy nh l khng hp l hay khng th c p buc trong bt k trng hp ring no, on cn li d nh p dng c, v ton b phn d nh p dng trong cc trng hp khe.</para>

</sect2>
Phn 13

T chc Phn mm T do c th xut bn phin bn sa i v/hay mi ca Giy php Cng cng Ph GNU. Phin bn mi nh vy s c tinh thn tnng t vi phin bn hin thi, nhng c th khc bit trong chi tit gii quyển mi.</para>

Mi phin bn c gn mt s hiu phn bit phin bn . Nu Th vin xc nh s phin bn ring ca Giy php ny p dng cho n, bn c ty chn thua iu kin hoc ca phin bn , hoc ca bt k phin bn sau no c xut bn bi T chc Phn mm T do. Nu Th vin khng xc nh s phin bn ring ca Giy php ny, bn c kh ng chn bt k phin bn no ca Giy php ny c xut bn bi T chc Phn mm T do.</para>

Phn 14

Nu bn mun hp nht phn no ca Th vin vo chng trnh t do khc c iu kin phn hnh khng tnng thch vi Giy php ny, hy xin php tc gi, i vi phn mm c bn quyn tc gi ca T chc Phn mm T do, hy vit th cho T che Phn mm T do : thng thong chng ti cho php ngoi l trong trng hp ny. Quyt nh ca chng ti s c hng dn bi hai mc ch l s bo tn trng thi t do ca mi iu bt ngu t phn mm t do ca chng ti, v s y mnh s chia s v s dng li phn mm mt cch chung.</para>

KHNG BO HNH

V TH VIN c cp PHP MIN PH, KHNG C BO HNH I VI TH VIN NY, VI IU KIN C PHP LUT CHO PHP. TR KHI XC NH KHC BNG TI LIU GIY T, CC NGI GI BN QUYN TC GI V/HAY NGI KHC CUNG CP TH VIN NY <quote>NH TH</quote>, KHNG C BO HNH G C, KHNG PHT BIU N, CNG KHNG NG N, GM, NHNG KHNG B BN CH BI, S BO M NG TNH TRNG C TH BN C V S THCH HP VI MT MC CH DT KHOT. MI RI RO V CHT LNG, CHNH XC V HIU SUT CA TH VIN NY BN S T CHU. NU TH VIN NY GY RA H HNG, BN GHN VC HON TON TRCH NGHIM TR TIN DCH V GIP HAY SA CHA.</para>

KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M BT K NGI GI BN QUYN TC GI NO, HAY BT K NGI KHC NO C TH SA I V/HAY PHT HNH LI TH VIN NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THING, GM BT K BI THNG KIU TNG QUT, C BIT, NGU NHIN HAY DO HU QU DO S DNG HAY S KHNG C KI NG NNG S DNG TH VIN NY (GM NHNG KHNG PHI B BN TH BI S MT D LIU HAY D LIU B LM CHO KHNG CHNH XC HAY CC MT MT CA BN HAY NGI KHC HAY S KHNG HOT NG C TH VIN NY VI CHNG TRNH KHC), THM CH NU BN HAY NGI KHC C BO BIT C KH NNG THIT HI NH VY.
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</sect2>

<sect2 id="sect1" label="1">
<title>Sección 1</title>

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Programa.</para>

<para>Puede cobrar un precio por el acto físico de transferir una copia, y puede, según su libre albedrío, ofrecer
garantía a cambio de unos honorarios.</para>

</sect2>

<sect2 id="sect2" label="2">
<title>Sección 2</title>

<para>Puede modificar su copia o copias del Programa o de cualquier porción de l, formando de esta manera un
trabajo basado en el Programa, y copiar y distribuir esa modificación o trabajo bajo los términos de la <link
linkend="sect1">Sección 1</link> anterior, probado que además usted cumpla con todas las siguientes condiciones:
<orderedlist numeration="loweralpha">
<listitem>
<para>Debe hacer que los ficheros modificados lleven anuncios prominentes indicando que los ha cambiado y la
fecha de cualquier cambio.</para>
</listitem>
<listitem>
<para>Debe hacer que cualquier trabajo que distribuya o publique y que en todo o en parte contenga o sea
derivado del Programa o de cualquier parte de l sea licenciada como un todo, sin carga alguna, a todas las terceras
partes y bajo los términos de esta Licencia.</para>
</listitem>
<listitem>
<para>Si el programa modificado normalmente lee comandos interactivamente cuando se ejecuta, debe hacer que
cuando comience su ejecución para dicho uso interactivo de la forma más habitual, muestre o imprima por pantalla un
mensaje que incluya un anuncio de copyright y un anuncio de que no se ofrece ninguna garantía (o por el contrario,
diciendo que usted proporciona garantía) y que los usuarios pueden redistribuir el programa bajo estas condiciones, e
indicando al usuario cómo ver una copia de esta Licencia. <note>
<title>Excepción:</title>
<para>Si el propio Programa es interactivo pero normalmente no muestra ese anuncio, no se requiere que su trabajo
basado en el Programa muestre ningún anuncio.</para>
</note></para>
</listitem>
</orderedlist>

</sect2>
Estos requisitos se aplican al trabajo modificado como un todo. Si partes identificables de ese trabajo no son derivadas del Programa, y pueden, razonablemente, ser consideradas trabajos independientes y separados por ellos mismos, entonces esta Licencia y sus términos no se aplican a esas partes cuando sean distribuidas como trabajos separados. Pero cuando distribuya esas mismas secciones como partes de un todo que es un trabajo basado en el Programa, la distribución del todo debe ser según los términos de esta licencia, cuyos permisos para otros licenciatarios se extienden al todo completo, y por lo tanto a todas y cada una de sus partes, con independencia de quién la escribi.

Por lo tanto, no es la intención de este apartado reclamar derechos o desafiar sus derechos sobre trabajos escritos totalmente por usted mismo. El intento es ejercer el derecho a controlar la distribución de trabajos derivados o colectivos basados en el Programa.

Además, el simple hecho de reunir un trabajo no basado en el Programa con el Programa (o con un trabajo basado en el Programa) en un volumen de almacenamiento o en un medio de distribución no hace que dicho trabajo entre dentro del ámbito cubierto por esta Licencia.

Puede copiar y distribuir el Programa (o un trabajo basado en él, según se especifica en la Subsección 2), como código objeto o en formato ejecutable según los términos de las Subsecciones 1 y 2 anteriores, supuesto que además cumpla una de las siguientes condiciones: 

- Acompañarlo con el código fuente leible completo correspondiente, leible por máquinas, que debe ser distribuido según los términos de las Subsecciones 1 y 2 mencionadas antes en un medio habitualmente utilizado para el intercambio de software, o,
- Acompañarlo con una oferta por escrito, válida durante al menos tres años, de proporcionar a cualquier tercera parte una copia completa en formato electrónico del código fuente correspondiente, a un coste no mayor que el de realizar físicamente la distribución del fuente, que ser distribuido bajo las condiciones descritas en los apartados 1 y 2 anteriores, en un medio habitualmente utilizado para el intercambio de programas, o,
- Acompañarlo con la información que recibiste ofreciendo distribuir el código fuente correspondiente. (Esta opción se permite solo para distribución no comercial y solo si usted recibió el programa como código objeto o en formato ejecutable con tal oferta, de acuerdo con la Subsección b anterior).
- Acompañarlo con la información que recibiste ofreciendo distribuir el código fuente correspondiente. (Esta opción se permite solo para distribución no comercial y solo si usted recibió el programa como código objeto o en formato ejecutable con tal oferta, de acuerdo con la Subsección b anterior).

Por código fuente de un trabajo se entiende la forma preferida del trabajo cuando se le hacen modificaciones. Para un trabajo ejecutable, se entiende por código fuente completo todo el código fuente para todos los módulos que contiene, más cualquier fichero asociado de definición de interfaces, más los guiones utilizados para...
controlar la compilación e instalación del ejecutable. Como excepción especial el código fuente distribuido no necesita incluir nada que sea distribuido normalmente (bien como fuente, bien en forma binaria) con los componentes principales (compilador, núcleo y similares) del sistema operativo en el cual funciona el ejecutable, a no ser que el propio componente acompañe al ejecutable.</para>

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<sect2 id="sect4" label="4">
<title>Sección 4</title>

<para>No puede copiar, modificar, sublicenciar o distribuir el Programa excepto como prev expresamente esta Licencia. Cualquier intento de copiar, modificar sublicenciar o distribuir el Programa de otra forma no es válida, y har que cesen automáticamente los derechos que te proporciona esta Licencia. En cualquier caso, las partes que hayan recibido copias o derechos de usted bajo esta Licencia no cesarán en sus derechos mientras esas partes continúen cumpliendo.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Sección 5</title>

<para>No estás obligado a aceptar esta licencia, ya que no la has firmado. Sin embargo, no hay nada que te proporcione permiso para modificar o distribuir el Programa o sus trabajos derivados. Estas acciones están prohibidas por la ley si no acepta esta Licencia. Por lo tanto, si modifica o distribuye el Programa (o cualquier trabajo basado en el Programa), estás indicando que acepta esta Licencia para poder hacerlo, y todos sus términos y condiciones para copiar, distribuir o modificar el Programa o trabajos basados en l.</para>

</sect2>

<sect2 id="sect6" label="6">
<title>Sección 6</title>

<para>Cada vez que redistribuya el Programa (o cualquier trabajo basado en el Programa), el receptor recibe automáticamente una licencia del licenciatario original para copiar, distribuir o modificar el Programa, de forma sujeta a estos términos y condiciones. No puede imponer al receptor ninguna restricción más sobre el ejercicio de los derechos aquí garantizados. No es usted responsable de hacer cumplir esta licencia por terceras partes.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>Sección 7</title>

<para>Si como consecuencia de una resolución judicial o de una alegación de infracción de patente o por cualquier otra razón (no limitada a asuntos relacionados con patentes) se le imponen condiciones (ya sea por mandato judicial, por acuerdo o por cualquier otra causa) que contradigan las condiciones de esta Licencia, ello no le exime de cumplir las condiciones de esta Licencia. Si no puede realizar distribuciones de forma que se satisfagan simultáneamente sus obligaciones bajo esta licencia y cualquier otra obligación pertinente entonces, como consecuencia, no puede distribuir el Programa de ninguna forma. Por ejemplo, si una patente no permite la
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<para>No es el propsito de este apartado inducirle a infringir ninguna reivindicacin de patente ni de ningn otro derecho de propiedad o impugnar la validez de ninguna de dichas reivindicaciones. Este apartado tiene el nico propsito de proteger la integridad del sistema de distribucin de software libre, que se realiza mediante prcticas de licencia pblica. Mucha gente ha hecho contribuciones generosas a la gran variedad de software distribuido mediante ese sistema con la confianza de que el sistema se aplicar consistentemente. Ser el autor/donante quien decida si quiere distribuir software mediante cualquier otro sistema y una licencia no puede imponer esa eleccin.</para>

<para>Este apartado pretende dejar completamente claro lo que se cree que es una consecuencia del resto de esta Licencia.</para>

<sect2 id="sect8" label="8">
<title>Seccin 8</title>

<para>Si la distribucin y/o uso de el Programa est restringida en ciertos pases, bien por patentes o por interfaces bajo copyright, el tenedor del copyright que coloca este Programa bajo esta Licencia puede aadir una limitacin explcita de distribucin geogrffa excluyendo esos pases, de forma que la distribucin se permita slo en o entre los pases no excluidos de esta manera. En ese caso, esta Licencia incorporar la limitacin como si estuviese escrita en el cuerpo de esta Licencia.</para>

<sect2 id="sect9" label="9">
<title>Seccin 9</title>

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<sect2 id="sect10" label="10">
<title>Seccin 10</title>

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escribe a la Free Software Foundation: algunas veces hacemos excepciones en estos casos. Nuestra decisión estará guiada por el doble objetivo de de preservar la libertad de todos los derivados de nuestro software libre y promover el que se comparta y reutilice el software en general.</p>

<section id="sect11" label="11">
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<section id="sect12" label="12">
<title>Sección 12</title>


</section>

</section>

1.832 shadow 4.6-5.el7

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$Id$
*)

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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/PemReader.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
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  jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslX509TrustManager.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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  jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
  jar/io/netty/handler/ssl/OpenSslSession.java

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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/utils/X509TrustManagerWrapper.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/utils/PemPrivateKey.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-jar/io/netty/handler/utils/PemEncoded.java
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jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

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jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
jar/io/netty/handler/ssl/SslContextBuilder.java
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* /opt/cola/permits/1110676046_1606843831.59/0/netty-handler-4-1-32-final-sources-2-
jar/io/netty/handler/ssl/NotSslRecordException.java
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jar/io/netty/handler/timeout/WriteTimeoutException.java
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jar/io/netty/handler/stream/package-info.java
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jar/io/netty/handler/ssl/SslHandler.java
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jar/io/netty/handler/stream/ChunkedInput.java
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jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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jar/io/netty/handler/timeout/TimeoutException.java
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1.839 elasticsearch-core 6.8.5

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1.840 jline-terminal 3.5.2

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1.841 llvm-private 7.0.1-1.el7
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; RUN: llc -mtriple=s390x-linux-gnu -mccpu=zEC12 -verify-machineinstrs | FileCheck %s
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:
; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

Open Source Used In Data Center Network Manager 11.5(1) 8413
CF248:                      ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0
  br label %CF248
}
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define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; First, extend each i32 to i64
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

  ; Next, convert each to double.
  ; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
  ; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
  ; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
  ; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
  ; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
  ; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
  ; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
  ; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

  ; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
  ret <4 x double> %res
}
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hello world

merhaba dnya

---

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Perch (Fish) Elevator !

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Developed by:

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University of Illinois at Urbana-Champaign

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This is an installer created using CPack (https://cmake.org). No license provided.

; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]

sw.bb.i17: ; preds = %.exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i20: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

while.end: ; preds = %entry
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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<td>&lt;none yet&gt;</td>
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<tr>
<td>LLVM System Interface Library</td>
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; RUN: llc %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.
declare fp128 @llvm.fabs.f128()
declare fp128 @llvm.copysign.f128()

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsb fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  %res = call fp128 @llvm.fabs.f128()
  ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
  %res = call fp128 @llvm.copysign.f128()
  ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
  %mul = fmul fp128 %a, %a
  %res = fsub fp128 0xL00000000000000000000000000000000, %mul
  ret fp128 %res
}
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* /opt/cola/permits/1000891165_1646171594.74/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/annotation/Annotation.java
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* /opt/cola/permits/1000891165_1646171594.74/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1000891165_1646171594.74/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/cola/permits/1000891165_1646171594.74/0/javassist-3-21-0-ga-sources-jar/javassist/bytecode/LineNumberAttribute.java
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1.847 spring-context 5.1.9.RELEASE

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* /opt/cola/permits/1136607974_1613806654.72/0/spring-context-5-1-9-release-sources-1.jar/org/springframework/context/annotation/ProfileCondition.java
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* /opt/cola/permits/1136607974_1613806654.72/0/spring-context-5-1-9-release-sources-1.jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
* /opt/cola/permits/1136607974_1613806654.72/0/spring-context-5-1-9-release-sources-1.jar/org/springframework/cache/interceptor/CacheEvictOperation.java

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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/

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*/
/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
* *
* <p>Exposes the {@code MBeanServer} for bean references.
* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
* *
* <p>See the javadocs for WebSphere's
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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jar/org/springframework/format/number/AbstractNumberFormatter.java
* /opt/cola/permits/1136607974_1613806654.72/0/spring-context-5-1-9-release-sources-1-
jar/org/springframework/framework/ui/context/support/UiApplicationContextUtils.java
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jar/org/springframework/context/event/ContextClosedEvent.java
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jar/org/springframework/context/config/ContextNamespaceHandler.java
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jar/org/springframework/context/Phased.java
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jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
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* /opt/cola/permits/1136607974_1613806654.72/0/spring-context-5-1-9-release-sources-1-jar/org/springframework/jndi/JndiObjectTargetSource.java
* /opt/cola/permits/1136607974_1613806654.72/0/spring-context-5-1-9-release-sources-1-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
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jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
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jar/org/springframework/remote/rmi/RmiProxyFactoryBean.java
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jar.org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
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jar.org/springframework/validation/DefaultMessageCodesResolver.java
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 */

/**
 * Indicates that a component is only eligible for registration when all
 * [@linkplain #value specified conditions] match.
 */
A condition is any state that can be determined programmatically before the bean definition is due to be registered (see \link Condition for details).

The \code @Conditional\ annotation may be used in any of the following ways:

- as a type-level annotation on any class directly or indirectly annotated with \code @Component\, including \link Configuration Configuration\ classes
- as a meta-annotation, for the purpose of composing custom stereotype annotations
- as a method-level annotation on any \link Bean Bean\ method

If a \code @Configuration\ class is marked with \code @Conditional\, all of the \code @Bean\ methods, \link Import Import\ annotations, and \code @ComponentScan ComponentScan\ annotations associated with that class will be subject to the conditions.

\author Phillip Webb
\author Sam Brannen
\since 4.0
\see Condition

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1.851 jackson-dataformat-cbor 2.8.1

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1.855 perl-parent 0.225-244.el7

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=encoding utf8

=head1 NAME

parent - Establish an ISA relationship with base classes at compile time

=head1 SYNOPSIS

package Baz;
    use parent qw(Foo Bar);

=head1 DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from those modules at the same time. Mostly similar in effect to

package Baz;
BEGIN {
    require Foo;
    require Bar;
    push @ISA, qw(Foo Bar);
}

By default, every base class needs to live in a file of its own.
If you want to have a subclass and its parent class in the same file, you
can tell C<parent> not to load any modules by using the C<-norequire> switch:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar';
# will not go looking for Foo.pm or Bar.pm

This is equivalent to the following code:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';

This is also helpful for the case where a package lives within
a differently named file:

package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';

This is equivalent to the following code:

package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';

If you want to load a subclass from a file that C<require> would
not consider an eligible filename (that is, it does not end in
either C.<pm> or C.<pmc>), use the following code:

package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';

=head1 DIAGNOSTICS
over 4

item Class 'Foo' tried to inherit from itself

Attempting to inherit from yourself generates a warning.

package Foo;
use parent 'Foo';

back

HISTORY

This module was forked from L<base> to remove the cruft
that had accumulated in it.

CAVEATS

SEE ALSO

L<base>

AUTHORS AND CONTRIBUTORS

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MAINTAINER

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cut

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Version 2, June 1991

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1.858 qt 5.5.1

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auto_left_margin, bw, bw  
auto_right_margin, am, am  
back_color_erase, bce, ut  
can_change, ccc, cc  
ceol_standout_glitch, xhp, xs  
col_addr_glitch, xhpa, YA  
cpi_changes_res, cpix, YF  
cr_cancels_micro_mode, crxm, YB  
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set_right_margin, smgr, MR
set_right_margin_parm, smgrp, Zn
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set_top_margin, smgt, Zo
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* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/TerminalBuilder.java
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* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/DumbTerminal.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/utils/Status.java
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* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
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* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/AbstractTerminal.java
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* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/ExecPty.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/PosixTerminal.java
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info.java
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* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/MouseSupport.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/utils/ClosedException.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/Cursor.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/utils/WCWidth.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/package-info.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/utils/AttributedString.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/utils/ExecHelper.java
* /opt/cola/permits/1000716586_1646171482.91/0/jline-terminal-3-10-0-sources-jar/org/jline/terminal/impl/CursorSupport.java

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* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5.jar/com/mchange/lang/StringUtils.java
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* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5.jar/com/mchange/v1/lang/holders/ThreadSafeCharHolder.java
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* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5.jar/com/mchange/v1/db/sql/schemarep/ForeignKeyRep.java
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* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5.jar/com/mchange/lang/PotentiallySecondaryRuntimeException.java
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* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5.jar/com/mchange/v1/lang/holders/VolatileShortHolder.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5.jar/com/mchange/v2/collection/MapEntry.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5.jar/com/mchange/v2/lock/SimpleSharedUseExclusiveUseLock.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5.jar/com/mchange/v1/lang/ArrayUtils.java
* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5.jar/com/mchange/v2/codegen/bean/CopyConstructorGeneratorExtension.java
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* /opt/cola/permits/1150964960_1654022928.559134/0/mchange-commons-java-0-2-11-sources-5.jar/com/mchange/v1/cachedstore/KeyValueTransformingCachedStore.java
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1.870 pcre 8.32 17.el7
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THE BASIC LIBRARY FUNCTIONS
----------------------------

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1.873 spring-boot-autoconfigure

2.1.2.RELEASE

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* /opt/ws_local/PERMITS_SQL/1089321072_1600118627.86/0/spring-boot-autoconfigure-2-1-2-release-sources.jar/org/springframework/boot/autoconfigure/web/config/package-info.java

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* /opt/ws_local/PERMITS_SQL/1089321072_1600118627.86/0/spring-boot-autoconfigure-2-1-2-release-sources.jar/org/springframework/boot/autoconfigure/jooq/SpringTransactionProvider.java
* /opt/ws_local/PERMITS_SQL/1089321072_1600118627.86/0/spring-boot-autoconfigure-2-1-2-release-sources.jar/org/springframework/boot/autoconfigure/cache/Liquibase/package-info.java

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* Changes (from 8-Feb-2002)
* -------------------
* 16-May-2002 : Line delimiters adjusted
* 04-Jun-2002 : Documentation and added a NullPointerCheck for the constructor.
* Prange)
* 18-Mar-2003 : Updated header and made minor Javadoc changes (DG);
* 21-Sep-2003 : Moved from JFreeReport.
* /

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* /opt/cola/permits/1106218683_1654022977.6964583/0/webswing-directdraw-swing-2-5-sources-
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* /opt/cola/permits/1110674967_1654022994.882638/0/wildfly-elytron-integration-6-0-2-final-sources-1.jar/org/wildfly/extension/elytron/ServiceStateDefinition.java
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* /opt/cola/permits/1110674967_1654022994.882638/0/wildfly-elytron-integration-6-0-2-final-sources-1-jar/org/wildfly/extension/elytron/RealmParser.java

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org.wildfly.extension.elytron.ElytronSubsystemTransformers

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*/
/**
* Encodes and decodes to and from Base64 notation.
*
* <p>
* Change Log:
* </p>
* <ul>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods
for reading and
* writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like
EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
*
* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code
* now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are
* cleaner. You'll probably have to change some method calls that you were making to support the new options format (
  * int that you "OR" together).</li>
* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode( String s, boolean gzipCompressed )</tt>.
* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed
* base64 data in an otherwise "normal" stream (like an XML file). </li>
* v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added
  * the ability to GZip-compress objects before encoding them.</li>
* v1.4 - Added helper methods to read/write files.</li>
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not
completely full, was not returned.</li>
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.</li>

*/

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* with plenty of well-wishing instead! Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements.
* </p>

* @author Robert Harder
* @author rob@iharder.net
* @version 2.1
*/

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Encoding: 169 169 102
GlifName: copyright
Width: 862
Flags: HMW
LayerCount: 2
Back
SplineSet
441 156 m 0
335 156 273 218 273 327 c 0
273 382 287 427 315 462 c 0
344 498 390 515 452 515 c 0
480 515 508 541 494 c 1
526 452 1 1
499 462 473 466 450 466 c 0
371 466 330 420 330 339 c 0
330 253 372 203 458 203 c 0
344 498 390 515 452 515 c 0
480 515 508 541 494 c 1
526 452 1 1
504 162 472 156 441 156 c 0
430 609 m 0
347 609 276 572 231 529 c 0
186 485 148 416 148 333 c 0
148 251 186 181 231 138 c 0
276 94 347 58 430 58 c 0
513 58 583 95 628 138 c 0
673 181 711 251 711 333 c 0
711 416 673 485 628 529 c 0
583 573 513 609 430 609 c 0
428 674 m 0
428 674 618 630 673 576 c 0
729 522 776 436 776 333 c 0
776 231 730 146 674 92 c 0
618 38 532 -7 430 -7 c 0
327 -7 242 38 186 92 c 0
130 146 83 230 83 333 c 0
83 435 129 521 185 575 c 0
240 629 327 674 428 674 c 0
EndSplineSet
Fore
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jar/org/glassfish/hk2/api/messaging/MessageReceiver.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3-
jar/org/glassfish/hk2/api/InstantiationData.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3-
jar/org/glassfish/hk2/api/InstantiationService.java
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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3-
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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3-
jar/org/glassfish/hk2/api/ImmediateController.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3-
jar/org/glassfish/hk2/api/DescriptorFinderInformation.java

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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/Validator.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/PerLookup.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/utilities/binding/BindingBuilderFactory.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/internal/SpecificFilterImpl.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/Proxiable.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/utilities/AliasDescriptor.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/AnnotationLiteral.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/DynamicConfigurationService.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/utilities/Binder.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/utilities/binding/NamedBindingBuilderFactory.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/Metadata.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/MultiException.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/Context.java
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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/ValidationInformation.java
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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/internal/ActiveDescriptorBuilderImpl.java
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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/ErrorInformation.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/UseProxy.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/ServiceLocatorFactory.java
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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/UnsatisfiedDependencyException.java
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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/internal/StarFilter.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/JustInTimeInjectionResolver.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/utilities/binding/AbstractBindingBuilder.java
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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/ServiceLocatorState.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/utilities/binding/ScopedBindingBuilder.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/Rank.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/InstanceLifecycleListener.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/utilities/ServiceLocatorUtilities.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3.jar/org/glassfish/hk2/api/Descriptor.java

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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3-
  jar/org/glassfish/hk2/internal/InheritableThreadContext.java
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  jar/org/glassfish/hk2/api/AOPProxyCtl.java
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* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3-
  jar/org/glassfish/hk2/api/InheritableThread.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3-
  jar/org/glassfish/hk2/api/ContractIndicator.java
* /opt/cola/permits/1152168994_1654022844.905777/0/hk2-api-2-4-0-b34-sources-3-
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1.894 aspect-j 1.6.5

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Manifest-Version: 1.0

Name: org/aspectj/lang/
Specification-Title: AspectJ Runtime Classes
Specification-Version: 1.6
Specification-Vendor: aspectj.org
Implementation-Title: org.aspectj.tools
Implementation-Version: 1.6.5
Implementation-Vendor: aspectj.org
Bundle-Name: AspectJ Runtime
Bundle-Version: 1.6.5
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1.895 perl 1.04 294.el7_6

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Julian Seward, jsward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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abstract: 'Build and install Perl modules'
author:
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   - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>,"
build_requires:
   File::Temp: 0.15
   Test::Harness: 3.16
   Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
   url: http://module-build.sourceforge.net/META-spec-v1.4.html
   version: 1.4
name: Module-Build
resources:
   MailingList: mailto:module-build@perl.org
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   version: 3
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    Gnomovision version 69, Copyright (C) 19xx name of author
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    <signature of Ty Coon>, 1 April 1989
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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn’t checked by default, so that it doesn’t fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}
# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = ";
    my $copyright_msg = <$readme>;
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visualization/src/main/java/edu/uci/ics/jung/visualization/control/ModalSatelliteGraphMouseListener.java
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visualization/src/main/java/edu/uci/ics/jung/visualization/control/ModalSatelliteGraphMouseListener.java
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* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-xxx.jar/org/jboss/logmanager/config/ErrorManagerConfiguration.java
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* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-xxx.jar/org/jboss/logmanager/config/FilterConfiguration.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-xxx.jar/org/jboss/logmanager/config/LogContextConfiguration.java
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* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/handlers/CountingOutputStream.java
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* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1-jar/org/jboss/logmanager/config/PojoConfigurationImpl.java
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* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1.jar/org/jboss/logmanager/handlers/AsyncHandler.java
* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1.jar/org/jboss/logmanager/handlers/AsyncHandler.java
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* /opt/cola/permits/1081905232_1654022890.9714088/0/jboss-logmanager-1-4-0-final-sources-1.jar/org/jboss/logmanager/handlers/AsyncHandler.java
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* /opt/ws_local/PERMITS_SQL/1091710722_1600571719.44/0/spring-struts-3-0-7-release-sources-jar/org/springframework/web/servlet/view/tiles/TilesJstlView.java

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jar/org/wildfly/extension/core/management/ProcessStateListenerResourceDefinition.java
* /opt/cola/permits/1110676762_1654022994.382638/0/wildfly-core-management-subsystem-6-0-2-final-sources-1-
jar/org/wildfly/extension/core/management/CoreManagementSubsystemParser_1_0.java
* /opt/cola/permits/1110676762_1654022994.382638/0/wildfly-core-management-subsystem-6-0-2-final-sources-1-
jar/org/wildfly/extension/core/management/ProcessStateListenerService.java
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jar/org/wildfly/extension/core/management/CoreManagementRootResourceDefinition.java
* /opt/cola/permits/1110676762_1654022994.382638/0/wildfly-core-management-subsystem-6-0-2-final-sources-1-
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org.wildfly.extension.core.management.CoreManagementExtension

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  jar/org/hibernate/connection/C3P0ConnectionProvider.java
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* /opt/cola/permits/1110675114_1654022998.9788625/0/wildfly-core-security-api-6-0-2-final-sources-1-jar/org/jboss/as/core/security/api/UserPrincipal.java
* /opt/cola/permits/1110675114_1654022998.9788625/0/wildfly-core-security-api-6-0-2-final-sources-1-jar/org/jboss/as/core/security/api/RealmPrincipal.java
* /opt/cola/permits/1110675114_1654022998.9788625/0/wildfly-core-security-api-6-0-2-final-sources-1-jar/org/jboss/as/core/security/api/AccountPrincipal.java

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1.917 dvd+rwtools 7.1-15.el7

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 * *
 * --------------
 * Contributor.java
 * --------------
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 * */
package org.jfree.ui.about;

/**
 * A simple class representing a contributor to a software project.
 * <P>
 * Used in the AboutFrame class.
 *
 * @author David Gilbert
 */

public class Contributor {

    /** The name. */
    private String name;

    /** The e-mail address. */
    private String email;

    /**
     * Creates a new contributor.
     *
     * @param name  the name.
     * @param email the e-mail address.
     */
    public Contributor(final String name, final String email) {
        this.name = name;
        this.email = email;
    }

    /**
     * Returns the contributor's name.
     *
     * @return the contributor's name.
     */
    public String getName() {
        return this.name;
    }
}

Changes
-------
10-Dec-2001 : Version 1 (DG);
28-Feb-2002 : Moved into package com.jrefinery.ui.about (DG);
08-Oct-2002 : Fixed errors reported by Checkstyle (DG);

Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): -;

$Id: Contributor.java,v 1.4 2005/11/16 15:58:41 taqua Exp $
/**
 * Returns the contributor's e-mail address.
 *
 * @return the contributor's e-mail address.
 */
public String getEmail() {
    return this.email;
}

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Version 2.1, February 1999

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That's all there is to it!
/* ========================================================================
 * JCommon : a free general purpose class library for the Java(tm) platform
 * ========================================================================
 *
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package org.jfree.ui.about;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.UnsupportedEncodingException;

/**
 * Contains the full texts of the GNU General Public Licence and the GNU Lesser
 * General Public Licence. These are used in the presentation of a standard
 * 'About' frame.
 */
public class Licences {

    /**
     * The GNU General Public Licence.
     * @deprecated Use {@link #getGPL()}
     */
    public static final String GPL = "GNU GENERAL PUBLIC LICENSE\n";

    /**
     * The GNU Lesser General Public Licence.
     * @deprecated Use {@link #getLGPL()}
     */
    public static final String LGPL = "GNU LESSER GENERAL PUBLIC LICENSE\n";

    /** The singleton instance of this class. */
    private static Licences singleton;

    /**
     * Returns a reference to the single instance of this class. In fact,
     * there is little point to having an instance of this class, but we're
     * leaving it that way for backwards compatibility until the JCommon
     * retirement.
     * @return the instance reference.
     */
    public static Licences getInstance() {
        if (singleton == null) {
            singleton = new Licences();
        }
        return singleton;
    }

    /**
     * Returns the GPL (v2.1) text.
     * @return the GPL licence text.
     */
    public String getGPL() {
        return readStringResource("gpl-2.0.txt");
    }

    /**
     * Returns the LGPL (v2.1) text.
     * @return the LGPL licence text.
     */
public String getLGPL() {
    return readStringResource("lgpl-2.1.txt");
}

private String readStringResource(String name) {
    StringBuilder sb = new StringBuilder();
    InputStreamReader streamReader = null;
    try {
        InputStream inputStream = getClass().getResourceAsStream(name);
        streamReader = new InputStreamReader(inputStream, "UTF-8");
        BufferedReader in = new BufferedReader(streamReader);
        for (String line; (line = in.readLine()) != null;) {
            sb.append(line).append("\n");
        }
    } catch (UnsupportedEncodingException ex) {
        throw new RuntimeException(ex);
    } catch (IOException e) {
        throw new RuntimeException(e);
    } finally {
        try {
            streamReader.close();
        } catch (IOException ex) {
            throw new RuntimeException(ex);
        }
    }
    return sb.toString();
}

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1.924 wildfly-clustering-singleton-api
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* /opt/cola/permits/1110676811_1654022987.0517175/0/wildfly-clustering-singleton-api-14-0-1-final-sources-1.jar/org/wildfly/clustering/singleton/election/PreferredSingletonElectionPolicy.java
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* /opt/cola/permits/1110676811_1654022987.0517175/0/wildfly-clustering-singleton-api-14-0-1-final-sources-1.jar/org/wildfly/clustering/singleton/service/SingletonService.java
* /opt/cola/permits/1110676811_1654022987.0517175/0/wildfly-clustering-singleton-api-14-0-1-final-sources-1.jar/org/wildfly/clustering/singleton/service/SingletonServiceConfiguratorFactory.java
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  jar/org/wildfly/clustering/singleton/SingletonServiceName.java
* /opt/cola/permits/1110676811_1654022987.0517175/0/wildfly-clustering-singleton-api-14-0-1-final-sources-1-
  jar/org/wildfly/clustering/singleton/election/RandomSingletonElectionPolicy.java
* /opt/cola/permits/1110676811_1654022987.0517175/0/wildfly-clustering-singleton-api-14-0-1-final-sources-1-
  jar/org/wildfly/clustering/singleton/service/SingletonPolicy.java
* /opt/cola/permits/1110676811_1654022987.0517175/0/wildfly-clustering-singleton-api-14-0-1-final-sources-1-
  jar/org/wildfly/clustering/singleton/ImmutableSingletonServiceConfigurator.java

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1.926 pax-utils 1.2.3 r0

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  jar/org/wildfly/extension/requestcontroller/RequestControllerExtension.java
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  jar/org/wildfly/extension/requestcontroller/RequestControllerRootDefinition.java
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  jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/string/LineEncoder.java
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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*/

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jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/codec/DefaultHeadersImpl.java

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  jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/protobuf/ProtocolDetectionResult.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
  jar/io/netty/handler/codec/protobuf/ProtocolDecoder.java

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jar/io/netty/handler/code/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/LzfDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Bzip2Encoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/FastLz.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Bzip2BitWriter.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Lz4Constants.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Bzip2BitReader.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Bzip2Decoder.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Bzip2MoveToFrontTable.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/Lz4FrameDecoder.java
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jar/io/netty/handler/code/compression/Bzip2Rand.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/compression/DecoderResultProvider.java
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4-1-32-final-sources-2-
jar/io/netty/handler/code/AsciiHeadersEncoder.java
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jar/io/netty/handler/code/MessageAggregationException.java

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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
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/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * <p>
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <p>
 * <pre>
 * <b>lengthFieldOffset</b> = <b>0</b>
 * </pre>
 * <p>
 * <b>lengthFieldOffset</b> = <b>0</b>
 */
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* Because we can get the length of the content by calling
* [@link ByteBuf#readableBytes()]. you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* *
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* *
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* | Header 1 | Length  | Actual Content |----->| Header 1 | Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* | Header 1 | Length  | Actual Content |----->| Header 1 | Length  | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the `<tt>`lengthFieldOffset`<tt>` and the extra
* header affects the `<tt>`lengthAdjustment`<tt>`. We also specified a non-zero
* `<tt>`initialBytesToStrip`<tt>` to strip the length field and the prepended
* header from the frame. If you don’t want to strip the prepended header, you
* could specify `<tt>`0`<tt>` for `<tt>`initialBytesToSkip`<tt>`.
* *  
* `<pre>`
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* * <b>`lengthAdjustment`</b>   = <b>`1`</b> (= the length of HDR2)
* * <b>`initialBytesToStrip`</b> = <b>`3`</b> (= the length of HDR1 + LEN)
* *  
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +--------+----------------+      +--------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>`
* *  
* `<h3>`2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message`</h3>`
* *  
* Let’s give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into `<tt>`lengthAdjustment`<tt>.
* Please note that we don’t need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* *  
* `<pre>`
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* * <b>`lengthAdjustment`</b>   = <b>`-3`</b> (= the length of HDR1 + LEN, negative)
* * <b>`initialBytesToStrip`</b> = <b>`3`</b>
* *  
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* *  
* | HDR1 | Length | HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>`
* *  
* @see LengthFieldPrepender
*/

Found in path(s):  
* /opt/cola/permits/1110674866_1606843795.88/0/netty-codec-4.1.32-final-sources-2.jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
1.938 gnome-keyring 3.28.2 1.el7

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.942 lz4 1.7.6

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  jar/org/glassfish/hk2/utilities/BuilderHelper.java  
* /opt/cola/permits/1110676080_1654022842.8725438/0/hk2-api-2-3-0-b10-sources-2-  
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* /opt/cola/permits/1110676757_1654022993.3113053/0/wildfly-discovery-6-0-2-final-sources-1-
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* /opt/cola/permits/1110676757_1654022993.3113053/0/wildfly-discovery-6-0-2-final-sources-1-
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  jar/org/wildfly/extension/discovery/DiscoverySubsystemParser.java
* /opt/cola/permits/1110676757_1654022993.3113053/0/wildfly-discovery-6-0-2-final-sources-1-
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* /opt/cola/permits/1110677058_1654022971.864105/0/wildfly-bean-validation-14-0-1-final-sources-1.jar/org/wildfly/extension/beanvalidation/Namespace.java
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* /opt/cola/permits/1110677058_1654022971.864105/0/wildfly-bean-validation-14-0-1-final-sources-1.jar/org/wildfly/extension/beanvalidation/BeanValidationSubsystemAdd.java

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1.965 byte-buddy 1.9.13

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Manifest-Version: 1.0
Bundle-Description: Byte Buddy is a Java library for creating Java classes at run time. This artifact is a build of Byte Buddy with all ASM dependencies repackaged into its own name space.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: net.bytebuddy.byte-buddy
Built-By: rafael
Bnd-LastModified: 1558735218476
Bundle-ManifestVersion: 2
Tool: Bnd-3.5.0.201709291849
Main-Class: net.bytebuddy.build.Plugin$Engine$Default

Bundle-Name: Byte Buddy (without dependencies)
Bundle-Version: 1.9.13
Multi-Release: true
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_201

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Found in path(s):
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-jar/net/bytebuddy/implementation/bind/DeclaringTypeResolver.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-jar/net/bytebuddy/asm/package-info.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-jar/net/bytebuddy/description/type/TypeVariableToken.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/ModifierMatcher.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/asm/ModifierAdjustment.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/InstanceTypeMatcher.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/NegatingMatcher.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/asm/MemberSubstitution.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/bind/annotation/Default.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/InvocationHandlerAdapter.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/build/BuildLogger.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/utility/OpenedClassReader.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/ToStringMethod.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/NegatingMatcher.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/bytecode/TypeCreation.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/dynamic/scaffold/MethodRegistry.java
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jar/net/bytebuddy/description/field/FieldList.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/bytecode/constant/JavaConstantValue.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/EqualsMethod.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/FieldTypeMatcher.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/description/modifier/ModifierContributor.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/description/modifier/TypeManifestation.java
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jar/net/bytebuddy/description/type/TypeDefinition.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/FieldTypeMatcher.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/description/attribute/FieldAttributeAppender.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/attribute/FieldAttributeAppender.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/Implmentation.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/ClassLoaderHierarchyMatcher.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/CollectionOneToOneMatcher.java
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* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/bind/annotation/FieldValue.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/SubTypeMatcher.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/description/ModifierReviewable.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
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* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
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* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/build/CachedReturnPlugin.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/AnnotationTypeMatcher.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/dynamic/scaffold/package-info.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/agent/builder/LambdaFactory.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/CollectionElementMatcher.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/auxiliary/AuxiliaryType.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/bind/annotation/FieldProxy.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-jar/net/bytebuddy/dynamic/package-info.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/FilteredList.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/dynamic/scaffold/subclass/ConstructorStrategy.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/asm/AsmVisitorWrapper.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/implementation/attribute/package-info.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/dynamic/loading/ClassLoaderStrategy.java
* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-
jar/net/bytebuddy/matcher/FilteredList.java

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* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-jar/net/bytebuddy/jar/asm/Symbol.java
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* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-jar/net/bytebuddy/jar/asm/MethodVisitor.java
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* /opt/cola/permits/1001936583_1646171656.3/0/byte-buddy-1-9-13-sources-jar/net/bytebuddy/jar/asm/Label.java
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The snowball stemmers in
   analysis/common/src/java/net/sf/snowball
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The snowball stopword lists in
   analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
   http://snowball.tartarus.org/

The KStem stemmer in
   analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default stopwords list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

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jar/org/opensaml/storage/impl/client/LogLocalStorageSaveResults.java
* /opt/cola/permits/1001043367_1646171583.79/0/opensaml-storage-impl-3-3-0-sources-
jar/org/opensaml/storage/impl/ServletRequestScopedStorageService.java
* /opt/cola/permits/1001043367_1646171583.79/0/opensaml-storage-impl-3-3-0-sources-
jar/org/opensaml/storage/impl/LDAPStorageService.java
* /opt/cola/permits/1001043367_1646171583.79/0/opensaml-storage-impl-3-3-0-sources-
jar/org/opensaml/storage/impl/client/LoadClientStorageServices.java

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jdk.nashorn.api.scripting.NashornScriptEngineFactory

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Found in path(s):
* /opt/cola/permits/1136594871_1613806529.43/0/spring-beans-5-0-8-release-sources-2-
  jar/org/springframework/beans/PropertyAccessorFactory.java

1.979 pth 2.0.7-23.el7
1.979.1 Available under license :

```
| _\|/|          ``Ian Fleming was a UNIX fan!
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|  \|
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  * /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
    jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForBigDecimal.java
  * /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
    jar/org/hibernate/validator/cfg/context/ConstructorConstraintMappingContext.java
  * /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
    jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForReadableInstant.java
  * /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
    jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveOrZeroValidatorForBigDecimal.java
  * /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
    jar/org/hibernate/validator/internal/constraintvalidators/bv/Mod11CheckValidator.java
  * /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
    jar/org/hibernate/validator/internal/constraintvalidators/bv/NotNullValidator.java
  * /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
    jar/org/hibernate/validator/cfg/defs/pl/NIPDef.java

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jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForLocalDate
Time.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/money/PositiveValidatorForMonetaryAmount.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/internal/metadata/raw/ConstrainedExecutable.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/NullValidator.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/internal/metadata/aggregated/GroupConversionHelper.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/path/package-info.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/constraints/UniqueElements.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForFloat.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/constraints/Length.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/annotation/ConstraintAnnotationDescriptor.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/internal/util/logging/formatter/DurationFormatter.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/internal/xml/mapping/AbstractMultiValuedElementStaxBuilder.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeValidatorForShort.java
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForZonedDateTime.java
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 * /
 */

/**
 * Retrieves constraint related meta data for the parameters of the given executable.
 * 
 * @param executable The executable of interest.
 * 
 * @return A list with parameter meta data for the given executable.
 */

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/**
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* </p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> is available
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [ @link javax.validation.ParameterNameProvider ]. By default, [@code arg0], [ @code arg1 ] etc.
* will be used as parameter names.
* </p>
* </p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* [ @code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... } ]
* }
* </pre>
* </p>
* Can be specified on any method or constructor.
* </p>
* 
* @author Gunnar Morling
*/

Found in path(s):
* /opt/cola/permits/1106729402_1605661466.13/0/hibernate-validator-6-0-21-final-sources-1-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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  * /opt/cola/permits/1106729402_1605661466.13/0.hibernate-validator-6-0-21-final-sources-1-jar/META-INF/validation-mapping-1.0.xsd
  * /opt/cola/permits/1106729402_1605661466.13/0.hibernate-validator-6-0-21-final-sources-1-jar/META-INF/validation-configuration-1.0.xsd
  * /opt/cola/permits/1106729402_1605661466.13/0.hibernate-validator-6-0-21-final-sources-1-jar/META-INF/validation-mapping-1.1.xsd
  * /opt/cola/permits/1106729402_1605661466.13/0.hibernate-validator-6-0-21-final-sources-1-jar/META-INF/validation-configuration-2.0.xsd
  * /opt/cola/permits/1106729402_1605661466.13/0.hibernate-validator-6-0-21-final-sources-1-jar/META-INF/validation-mapping-2.0.xsd
  * /opt/cola/permits/1106729402_1605661466.13/0.hibernate-validator-6-0-21-final-sources-1-jar/maven/org.hibernate.validator/hibernate-validator/pom.xml
  * /opt/cola/permits/1106729402_1605661466.13/0.hibernate-validator-6-0-21-final-sources-1-jar/Org/hibernate/validator/overview.html

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* /opt/cola/permits/110674877_1654022977.0939343/0/wildfly-clustering-jgroups-extension-14-0-1-final-sources-1-jar/org/jboss/as/clustering/jgroups/subsystem/JGroupsExtension.java

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* /opt/cola/permits/1110674877_1654022977.0939343/0/wildfly-clustering-jgroups-extension-14-0-1-final-sources-1-jar/org/jboss/as/clustering/jgroups/subsystem/StackResourceDefinition.java

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From: Andrea Claudi <aclaudi@redhat.com>
Date: Mon, 29 Apr 2019 20:09:13 +0200
Subject: [PATCH] ip{6, }tunnel: Avoid copying user-supplied interface name
around

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1465646
Upstream Status: iproute2.git commit 26111ab1dba82

commit 26111ab1dba820421ccaf283ac097a79b95023a2
Author: Phil Sutter <phil@nw1.cc>
Date:   Mon Oct 2 13:46:35 2017 +0200

ip{6, }tunnel: Avoid copying user-supplied interface name around

In both files' parse_args() functions as well as in iptunnel's do_pr1()
and do_6rd() functions, a user-supplied 'dev' parameter is uselessly
copied into a temporary buffer before passing it to ll_name_to_index()
or copying into a struct ifreq. Avoid this by just caching the argv
pointer value until the later lookup/strcpy.

Signed-off-by: Phil Sutter <phil@nw1.cc>

---
ip/ip6tunnel.c |  6 ++---
ip/ip6tunnel.c | 22 ++++++++-------
2 files changed, 12 insertions(+), 16 deletions(-)

diff --git a/ip/ip6tunnel.c b/ip/ip6tunnel.c
index b4a7def144226..c12d700e74189 100644
--- a/ip/ip6tunnel.c
+++ b/ip/ip6tunnel.c
@@ -136,7 +136,7 @@ static void print_tunnel(struct ip6_tnl_parm2 *p)
 static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
 {
  int count = 0;
-  char medium[IFNAMSIZ] = { };
+  const char *medium = NULL;
  +const char *medium = NULL;

  while (argc > 0) {
    if (strcmp(*argv, "mode") == 0) {
@@ -180,7 +180,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
      memcpy(&p->laddr, &laddr.data, sizeof(p->laddr));
    } else if (strcmp(*argv, "dev") == 0) {
      NEXT_ARG();
-     strncpy(medium, *argv, IFNAMSIZ - 1);
+     medium = *argv;
    } else if (strcmp(*argv, "encaplimit") == 0) {
      NEXT_ARG();
      if (strcmp(*argv, "none") == 0) {
@@ -285,7 +285,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
        count++;
        argc--; argv++;
      }
-     if (medium[0]) {
-      if (medium) {
+     if (medium) {
+        if (medium) {
        p->link = ll_name_to_index(medium);
      }
    }
    if (p->link == 0) {
      fprintf(stderr, "Cannot find device \"%s\"\n", medium);
  }
  }
  }
  if (p->link == 0) {
    fprintf(stderr, "Cannot find device \"%s\"\n", medium);
  }

diff --git a/ip/iptunnel.c b/ip/iptunnel.c
index 105d0f5576f1a..0acfd0793d3cd 100644
--- a/ip/iptunnel.c
+++ b/ip/iptunnel.c
@@ -60,7 +60,7 @@ static void set_tunnel_proto(struct ip_tunnel_parm *p, int proto)
 static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
 {
  int count = 0;
- char medium[IFNAMSIZ] = { };
+ char medium[IFNAMSIZ] = { };
  +const char *medium = NULL;
  int isatap = 0;

  memset(p, 0, sizeof(*p));

static int parse_args(int argc, char **argv, int cmd, struct ip_tunnel_parm *p)
{
    p->iph.saddr = htonl(INADDR_ANY);
    if (argc > 0) {
        if (strcmp(*argv, "dev") == 0) {
            medium = *argv;
            devname++;
        } else if (strcmp(*argv, "ttl") == 0 ||
                    strcmp(*argv, "hoplimit") == 0 ||
                    strcmp(*argv, "hlim") == 0) {
            @ @ -216,7 +216,7 @ @
        }
    }
    if (devname == 0) {
        fprintf(stderr, "Must specify device\n");
        exit(-1);
    }
    while (argc > 0) {
        if (strcmp(*argv, "prl-default") == 0) {
            count++;
        } else if (strcmp(*argv, "dev") == 0) {
            NEXT_ARG();
        } else {
            fprintf(stderr,
                    "Invalid PRL parameter \"%s\"\n", *argv);
            @ @ -502,7 +500,7 @ @
        }
        argc--; argv++;
    }
}

int do_prl(int argc, char **argv)
{
    int count = 0;
    int devname = 0;
    int cmd = 0;
    if (argc > 0) {
        if (strcmp(*argv, "prl-default") == 0) {
            count++;
        } else if (strcmp(*argv, "dev") == 0) {
            NEXT_ARG();
        } else {
            fprintf(stderr,
                    "Invalid PRL parameter \"%s\"\n", *argv);
            @ @ -502,7 +500,7 @ @
        }
    }
    argc--; argv++;
}

int do_prl(int argc, char **argv)
{
    int count = 0;
    int devname = 0;
    int cmd = 0;
    if (argc > 0) {
        if (strcmp(*argv, "prl-default") == 0) {
            count++;
        } else if (strcmp(*argv, "dev") == 0) {
            NEXT_ARG();
        } else {
            fprintf(stderr,
                    "Invalid PRL parameter \"%s\"\n", *argv);
            @ @ -502,7 +500,7 @ @
        }
    }
    argc--; argv++;
}

int do_prl(int argc, char **argv)
{
    int count = 0;
    int devname = 0;
    int cmd = 0;
    if (argc > 0) {
        if (strcmp(*argv, "prl-default") == 0) {
            count++;
        } else if (strcmp(*argv, "dev") == 0) {
            NEXT_ARG();
        } else {
            fprintf(stderr,
                    "Invalid PRL parameter \"%s\"\n", *argv);
            @ @ -502,7 +500,7 @ @
        }
    }
    argc--; argv++;
}

int do_prl(int argc, char **argv)
{
    int count = 0;
    int devname = 0;
    int cmd = 0;
    if (argc > 0) {
        if (strcmp(*argv, "prl-default") == 0) {
            count++;
        } else if (strcmp(*argv, "dev") == 0) {
            NEXT_ARG();
        } else {
            fprintf(stderr,
                    "Invalid PRL parameter \"%s\"\n", *argv);
            @ @ -502,7 +500,7 @ @
        }
    }
    argc--; argv++;
}

int do_prl(int argc, char **argv)
{
    int count = 0;
    int devname = 0;
    int cmd = 0;
    if (argc > 0) {
        if (strcmp(*argv, "prl-default") == 0) {
            count++;
        } else if (strcmp(*argv, "dev") == 0) {
            NEXT_ARG();
        } else {
            fprintf(stderr,
                    "Invalid PRL parameter \"%s\"\n", *argv);
            @ @ -502,7 +500,7 @ @
        }
    }
    argc--; argv++;
}

int do_prl(int argc, char **argv)
{
    int count = 0;
    int devname = 0;
    int cmd = 0;
    if (argc > 0) {
        if (strcmp(*argv, "prl-default") == 0) {
            count++;
        } else if (strcmp(*argv, "dev") == 0) {
            NEXT_ARG();
        } else {
            fprintf(stderr,
                    "Invalid PRL parameter \"%s\"\n", *argv);
            @ @ -502,7 +500,7 @ @
        }
    }
    argc--; argv++;
}
static int do_prl(int argc, char **argv)
static int do_6rd(int argc, char **argv)
{
struct ip_tunnel_6rd ip6rd = {};
-int devname = 0;
int cmd = 0;
-char medium[IFNAMSIZ] = {};
+const char *medium = NULL;
inet_prefix prefix;

while (argc > 0) {
@@ -537,8 +534,7 @@ static int do_6rd(int argc, char **argv)
 cmd = SIOCDEL6RD;
 } else if (strcmp(*argv, "dev") == 0) {
 NEXT_ARG();
-strcpy(medium, *argv, IFNAMSIZ-1);
-devname++;
+medium = *argv;
 } else {
 fprintf(stderr,
  "Invalid 6RD parameter '\"%s\"n', *argv);
@@ -546,7 +542,7 @@ static int do_6rd(int argc, char **argv)
 } argc--; argv++;

-if (devname == 0) {
+if (!medium) {
 fprintf(stderr, "Must specify device\n");
 exit(-1);
 }
--
2.21.0

1.991 wildfly-elytron-jacc 1.11.2.Final
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jar/org/wildfly/security/authz/jacc/SecurityIdentityHandler.java
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This is the perl5 TimeDate distribution. It requires perl version 5.003 or later

This distribution replaces my earlier GetDate distribution, which was only a date parser. The date parser contained in this distribution is far superior to the yacc based parser, and a *lot* faster.

The parser contained here will only parse absolute dates, if you want a date parser that can parse relative dates then take a look at the Time modules by David Muir on CPAN.

You install the library by running these commands:
perl Makefile.PL
make
make test
make install

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=encoding utf8

=head1 NAME

Date::Language::Bulgarian - localization for Date::Format

=head1 DESCRIPTION

This is Bulgarian localization for Date::Format.
It is important to note that this module source code is in utf8.
All strings which it outputs are in utf8, so it is safe to use it
currently only with English. You are left alone to try and convert
the output when using different Date::Language::* in the same application.
This should be addresed in the future.

=head1 SYNOPSIS

use strict;
use warnings;
use Date::Language;
local $=/=$/;
my $template = '%a %b %e %T %Y (%Y-%m-%d %H:%M:%S);
my $time=1290883821; #or just use time();
my $lt = localtime($time);
my %languages = qw(English GMT German EEST Bulgarian EET);
binmode(select,'utf8');
foreach my $l(keys %languages){
my $lang = Date::Language->new($l);
my $zone = $languages{$l};
print $/. "$l $zone";
print $lang->time2str($template, $time);
print $lang->time2str($template, $time, $zone);
print $lang->strftime($template, \@lt);
}
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=head1 NAME
Date::Language::Hungarian - Magyar format for Date::Format
=head1 SYNOPSIS
my $lang = Date::Language->new('Hungarian');
print $lang->time2str("%a %b %e %T %Y", time);
@lt = localtime(time);
print $lang->time2str($template, time);
print $lang->strftime($template, @lt);
print $lang->time2str($template, time, $zone);
print $lang->strftime($template, @lt, $zone);
print $lang->ctime(time);
print $lang->asctime(@lt);
print $lang->ctime(time, $zone);
print $lang->asctime(@lt, $zone);

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See L<Date::Format>.

=head1 AUTHOR

Paula Goddard (paula -at- paulacska -dot- com)

=head1 LICENCE

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* /opt/cola/permits/1005120692_1606843884.97/0/perl-TimeDate-2.30-2.el7-1.src.rpm-cosi-expand-archive-TYY0HZnh/TimeDate-2.30.tar.gz-cosi-expand-archive-1QqPpzBu/TimeDate-2.30/lib/Date/Parse.pm
* /opt/cola/permits/1005120692_1606843884.97/0/perl-TimeDate-2.30-2.el7-1.src.rpm-cosi-expand-archive-TYY0HZnh/TimeDate-2.30.tar.gz-cosi-expand-archive-1QqPpzBu/TimeDate-2.30/lib/Date/Format.pm

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jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java

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XSLT-driven View that allows for response context to be rendered as the result of an XSLT transformation.

The XSLT Source object is supplied as a parameter in the model and then [locateSource detected] during response rendering. Users can either specify a specific entry in the model via the [setSourceKey sourceKey] property or have Spring locate the Source object. This class also provides basic conversion of objects into Source implementations. See [getSourceTypes() here] for more details.

All model parameters are passed to the XSLT Transformer as parameters. In addition the user can configure [setOutputProperties output properties] to be passed to the Transformer.

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* /opt/cola/permits/1104729246_1604648860.36/0/spring-webmvc-5-2-10-release-sources-jar/org/springframework/web/servlet/ThemeResolver.java
* /opt/cola/permits/1104729246_1604648860.36/0/spring-webmvc-5-2-10-release-sources-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
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* /opt/cola/permits/1104729246_1604648860.36/0/spring-webmvc-5-2-10-release-sources-jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java
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* /opt/cola/permits/1104729246_1604648860.36/0/spring-webmvc-5-2-10-release-sources-jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
* /opt/cola/permits/1104729246_1604648860.36/0/spring-webmvc-5-2-10-release-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java
* /opt/cola/permits/1104729246_1604648860.36/0/spring-webmvc-5-2-10-release-sources-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
* /opt/cola/permits/1104729246_1604648860.36/0/spring-webmvc-5-2-10-release-sources-jar/org/springframework/web/servlet/NoHandlerFoundException.java

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* /opt/cola/permits/1104729246_1604648860.36/0/spring-webmvc-5-2-10-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ReactiveTypeHandler.java
* /opt/cola/permits/1104729246_1604648860.36/0/spring-webmvc-5-2-10-release-sources-jar/org/springframework/web/servlet/view/DefaultRequestToViewNameTranslator.java
* /opt/cola/permits/1104729246_1604648860.36/0/spring-webmvc-5-2-10-release-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ReactiveTypeHandler.java
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jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMethodMappingNamingStrategy.java

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/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}
*
* @author Rossen Stoyanchev
* @since 3.1
*/

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* /opt/cola/permits/110479343_1604648808.53/0/spring-expression-5-2-10-release-sources-jar/org/springframework/common/TemplateParserContext.java
* /opt/cola/permits/110479343_1604648808.53/0/spring-expression-5-2-10-release-sources-jar/org/springframework/expression/MethodResolver.java
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  jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/cola/permits/1104729343_1604648808.53/0/spring-expression-5-2-10-release-sources-
  jar/org/springframework/expression/spel/SpelCompilerMode.java
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* /opt/cola/permits/1104729343_1604648808.53/0/spring-expression-5-2-10-release-sources-jar/org/springframework/expression/spel/SpelMessage.java
* /opt/cola/permits/1104729343_1604648808.53/0/spring-expression-5-2-10-release-sources-jar/org/springframework/expression/spel/support/StandardTypeConverter.java
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An almost complete rewrite of MySpell for use by
the Mozilla project has been developed by David Einstein
(Deinst@world.std.com). David and I are now
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of MySpell back into a single tree. David has been
a significant help in improving MySpell.

Special thanks also go to La'szlo' Ne'meth
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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
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* /opt/cola/permits/1110677145_1654022987.8352332/0/wildfly-clustering-web-spi-14-0-1-final-sources-1-
  jar/org/wildfly/clustering/web/session/InactiveSessionStatistics.java
* /opt/cola/permits/1110677145_1654022987.8352332/0/wildfly-clustering-web-spi-14-0-1-final-sources-1-
  jar/org/wildfly/clustering/web/IdentifierSerializer.java
* /opt/cola/permits/1110677145_1654022987.8352332/0/wildfly-clustering-web-spi-14-0-1-final-sources-1-
  jar/org/wildfly/clustering/web/session/ActiveSessionStatistics.java

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  jar/org/wildfly/clustering/web/session/ImmutableSession.java
* /opt/cola/permits/1110677145_1654022987.8352332/0/wildfly-clustering-web-spi-14-0-1-final-sources-1-
  jar/org/wildfly/clustering/web/sso/SSOManagerFactory.java
* /opt/cola/permits/1110677145_1654022987.8352332/0/wildfly-clustering-web-spi-14-0-1-final-sources-1-
  jar/org/wildfly/clustering/web/session/SessionManagerFactoryServiceConfiguratorProvider.java
* /opt/cola/permits/1110677145_1654022987.8352332/0/wildfly-clustering-web-spi-14-0-1-final-sources-1-
  jar/org/wildfly/clustering/web/session/SessionManager.java
* /opt/cola/permits/1110677145_1654022987.8352332/0/wildfly-clustering-web-spi-14-0-1-final-sources-1-
  jar/org/wildfly/clustering/web/session/RouteLocator.java
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1.1012 curl 7.70.0

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1.1013 jetty-servlets 9.4.20.v20190813

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------
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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------
Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
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 *
 * -- Original comments follow --
 *
 * Encodes and decodes to and from Base64 notation.</p>
 *
 * Change Log:
 *
 * v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
 * v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
 * v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
 * v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (int that you "OR" together).
 * v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed). Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).
 * v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.
 * v1.4 - Added helper methods to read/write files.
 * v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
 * v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
 * v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
 * v1.3.3 - Fixed I/O streams which were totally messed up.
 *
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Specification-Vendor: Oracle Corporation
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  jar/org/apache/avalon/framework/logger/LogKit2AvalonLoggerAdapter.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
  jar/org/apache/avalon/framework/configuration/DefaultConfigurationBuilder.java
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  jar/org/apache/avalon/framework/configuration/DefaultConfigurationBuilder.java

jar/org/apache/avalon/framework/logger/Jdk14Logger.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
jar/org/apache/avalon/framework/logger/NullLogger.java
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jar/org/apache/avalon/framework/logger/AvalonFormatter.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
jar/org/apache/avalon/framework/configuration/NamespaceSAXConfigurationHandler.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
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* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
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* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
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* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
jar/org/apache/avalon/framework/framework/logger/Log4JLogger.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
jar/org/apache/avalon/framework/framework/logger/LoggerAwareOutputStream.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
jar/org/apache/avalon/framework/framework/service/WrapperServiceSelector.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
jar/org/apache/avalon/framework/framework/configuration/DefaultConfigurationSerializer.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
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* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
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* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
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* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
jar/org/apache/avalon/framework/framework/configuration/AbstractConfiguration.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
jar/org/apache/avalon/framework/framework/service/WrapperServiceManager.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
jar/org/apache/avalon/framework/framework/context/DefaultContext.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
jar/org/apache/avalon/framework/framework/ExceptionUtil.java
* /opt/cola/permits/1001070713_1646171592.68/0/avalon-framework-impl-4-3-1-sources-
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1.1025 slf4j 1.7.22.jbossorg-1

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1.1026 go-toml 1.7.0

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1.1027 ethtool 4.8 10.el7

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Steve Mitchell <mitchell@intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 78164-4 padding.

Julien Pasquier <julienpasquier@free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.

Matteo <matartuso@libero.it> - sequence patch to ASN1Dump.

Andrew Paterson <andrew.paterson@burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.
Vladimir Molotkov <vladimir.n.molotkov@intel.com> - extensive provider exception handling compliance testing.

Florin Kollan <adlocflo@web.de> - fix to ElGamalKeyParameters equality testing.

Pavel Vassiliev <paulvass@064gmail.com> - Initial GOST28147Mac implementation.

Tom Pesman <tom@064tmux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

Lukasz Kowalczyk <lukasz.b.kowalczyk@064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch <Arndt.Hasch@keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Mike Dillon <md5@embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

tu-vi cung <t2cung@064hotmail.com> - patch for out of bounds problem in getDecoderStream method.

Chris Schultz <cschultz@064gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee <dmlee@064Crossroads.com> - implementation assistance with streaming CMS classes.

Joel Rees <rees@064ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau <francesc.sau@064partners.netfocus.es> - micro fix for tsp Accuracy class.

Larry Bugbee <bugbee@064mac.com> - initial ECNR implementation.

Remi Blancher <Remi.Blancher@064keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke <brianorourke@064gmail.com> - patch for signature creation time override in OpenPGP.

Andreas Schwier <andreas.schwier@064cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse <david.josse@transacttools.net> - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko <kazu-k@064hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan <lwrnctan@064gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente <superdupont@064gmail.com> - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, <olaf.keller.bc@064bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

J&ouml;rg Eichhorn <eichhorn@064ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme <widerstand@064t-online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for
Printable, IA5, and Numeric Strings.
Support for surrogate pairs in DERUTF8String. DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz <carlos@tradise.com> - patch for <ctrl><m> only handling in CRFLFOutputStream.

John Alfred Prufrock <j.a.prufrock@064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen <neusatz@064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice <marzio.logiudice@064gmail.com> - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold <georg.lippold@064gmx.de> - initial implementation of NaccacheStern cipher.

Chris Viles <chris.viles@064yahoo.com> - fix to SignatureSubpacket critical bit setting.

Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.

Lijun Liao <lijun.liao@064rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.

Maria Ivanova <maria.ivanova@064gmail.com> - support for tags > 30 in ASN.1 parsing.

Armin H&auml;berling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder <mschilder@064google.com> - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch <xavier@064britanysoftware.com> - general code clean ups.

Erik Tews <e_tews@cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon <reikomusha@064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis <info@064frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim <rjoaquim@064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.

David Stacey <DSpacey@064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers <list@064mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies <juliusdavies@064gmail.com> - additional modes and algorithm support in PEMReader.

Matthias <g&064artner.de> - GnuPG compatibility changes for PBEFileProcessor.

Olga K&auml;thler <olga.kaethler@064hip-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo <germano.rizzo@064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

N&uacute;ria Mar&iacute; <numaa@064hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller <js@064zti.de> - addition of NotationData packets for OpenPGP.

Michael Samblanet <mike@064samblanet.com> - patches towards improved Sun/default provider support in CMS.
Mike StJohns <mstjohns@comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.

Ramon Keller <ramon.keller@gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson <mark@064nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov <eugene_gff@064ukr.net> - mask fix to single byte read in TlsInputStream.

Julien Pasquier <juliennpasquier@064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp <spknopp@064mtg.de> - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz <gwozdziu@064rpg.pl> - addition of getTs() to TimeStampTokenInfo.

Bartosz Malkowski <bmalkow@064tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi <tal.yacobi@octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi <massimiliano.ziccardi@gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature reading attributes.

Andrey Pavlenko <andrey.a.pavlenko@gmail.com> - security manager patch for PKCS1Encoding property check.

J Ross Nicoll <jrn@jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson <mavricknz@064yahoo.com> - patch to construtor for CRMF CertSequence.

Gabriele Contini <gcontini@064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEFs.

Roelof Naude <roelof.naude@epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck <peck@064signatureen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay <lemaymd@064lemaymd.com> - identified problem with EAX [#BJA-93].

Alex Dupre <ale@064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene <michael@064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga <ilarra@064s21sec.com> fix to default partial packet generation in BCPGOutputStream.

Bob Kerns <bob.kerns@positscience.com> fix to hashCode for X509CertificateObject.

Stefan Meyer <stefan.meyer@064ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore <Robert.J.Moore@064allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai <rui@064rpo.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic <emir.bucaloivic@064mail.com> initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson <tobbe79@064mail.com> initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick <bouncycastle_pfitz@064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson <k.henrik.andersson@064gmail.com> addition of UniqueIssuerID to certificate generation.

Cagdas Cirit <cagdascirit@064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
Harakiri <harakiri_23@yahoo.com> datahandler patch for attached parts in SMIME signatures.

Pedro Henriques <pmahenriques@gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kinneringer <job#064kinneringer.de> verbose mode for ASN1Dump, support for DERExternal.

Richard Farr <rfrarr.se#064gmail.com> initial SRP-6a implementation.

Thomas Castiglione <castiglione#064au.ibm.com> patch to encoding for CRMF OptionalValidity.

Elisabetta Romani <eromani#064sogei.it> patch for recognising multiple counter signatures.

Robin Lundgren <737lundgren#064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec <smornegil#064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener <antener.a#064gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat <hsrawat#064yahoo.com> fix for BERConstructedOctetString.

Rolf Lindemann <lindemann#064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov <alexart.home@gmail.com> name look up patch for GOST-2001 parameters.

Mike Lyons <mlyons#064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole <chris_h_cole#064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek <tom#064atack.cz> added checking of Sender header to SignedMailValidator.

Michael <emfau#064t-online.de> correction of field error in getResponse method in CertRepMessage.

Trevor Perrin <trevor#064cryptography.com> addition of constant time equals to avoid possible timing attacks.

Markus Kilaring: <markus#064primekey.se> several enhancements to TimeStampResponseGenerator.

Dario Novakovic <darianis#064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith <msmith#064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio <andrea.zilio#064gmail.com> fix for PEM password encryption of private keys.

Alex Birkett <alex#064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant <waynedgrant#064gmail.com> additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis <info#064frankcornelis.be> additional support classes for CADES, enhancements to OCSP classes.

Jan Dittberner <jan#064dittberner.info> addHeader patch for SMIME generator.

Bob McGowan <baob.mcgood#064btinternet.com> patch to support different content and mgf digests in PSS signing.

Ivo Matheis <i.matheis#seeburger.de> fix to padding verification in ISO-9796-1.

Marco Sandrini <nessche#064gmail.com> patch to add IV to ISO9797Alg3Mac.

Alf Malf <alfilmalf#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa <alfonso.massa#064insiel.it> contributions to CMS time stamp classes.

Giacomo Boccardo <gboccardo#064unimaticaspa.it> initial work on CMSTimeStampedDataParser.

Arnis Tartu <arnis#064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski <J.Sikocinski#064gdzie.pl> addition of Features subpacket support to OpenPGP API.

Juri Hudolejev <jhudolejev#064gmail.com> JavaDoc fix to CMSSignedDataParser.

Liane Velten <liane.velten#064hip-consulting.com> fine tuning of code for DHParameters validation.
Shawn Willden <swillden@064google.com> additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev <akrachev@064gmail.com> added support for revocation signatures in OpenPGP.</li>
<li>Mickael Laiking <mickael.laiking@064keynectis.com> initial cut of EAC classes.</li>
<li>Tim Buktu <tbuktu@064hotmail.com> Initial implementation of NTRU signing and encryption.</li>
<li>Bernd <bernd@064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak <stein.inge.morisbak@064BEKK.no> Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid <andreas.schmid@064ngtech.com> Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz <phil.steitz@064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Ignat Korchagin <ignat.korchagin@064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
<li>Petar Petrov <p.petrov@064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Daniel Fitzpatrick <daniel.f.nwr@064gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
<li>Andy Neilson <Andy.Neilson@quest.com> a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw <xiao.xj@064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth <Eleriseth@WPECGLtYbVi8Rl6Y7Vz2Lvd2EUVVV99v3yNV3IWRQ8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root <kenny@064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for Aead.</li>
<li>Maarten Bodewes <maarten.bodewes@064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay <pilf_b@064yahoo.com> Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom <bdc@064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lidén Borell <samuel@064primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.</li>
<li>Sergio Demian Lerner <sergiolerner@064certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.</li>
<li>Tim Whittington <Tim.Whittington@064orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, save CipherInputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>
<li>Marcus Lundblad <marcus.lundblad@064primekey.se> patch for working arround JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>
<li>Andrey Zhozhin <zhozhin@064xmr.ru> patch for override of TSP SignerInfo attributes.</li>
<li>Sergey Tiunov <s55555d@064gmail.com> initial cut of DVCS classes.</li>
<li>Damian Kolasa <fatfredyy@064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.
Ash Hughes <ashley.hughes@blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher <dev@daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci <daniele.athome@gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio <matti.aarnio@methics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.

Babak Najafi <bnajafi@64akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&uuml;ller <eric.mueller@sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts <Mathias.Herberts@gmail.com> fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov <daniil.ivanov@gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso <daniele.grasso86@gmail.com> contributions to final Key calculation code for SRP6.

Andrey Utkin <cindrhc@gmail.com> patch to reconstruction of EC keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu <arnis@ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB <axel-vdb@riseup.net> initial implementation of Shacal2.

Roberto Tyley < further work on completing gradle build.

Waldemar Dick <wkdevick@64devmue.de> code improvement in x500 ASN.1 package.

Sid Steward <sid.steward@64pdflabs.com> code improvements to ASN1Boolean.

Alex Klyubin <klyubin@644google.com> AlgorithmParameters check for EC key agreement.

Jonathan Gillett <gsoc.student@gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter <andreas.reiter@64iai.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller <kieran.miller@gmail.com> initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli <ehli@64arago.de> Additional support for BSI plain ECDSA in the provider.

Daniel Heldt <Daniel.Heldt@cryptovision.com> Initial support for encodable state message digests.

Robert Bumash <booncycastle@64traxel.com> Clean up of DirectKeySignature example.

Maurice Aarts <maarts@64risecure.com> updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer <https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.

KB Sriram <mail_kb@yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze <marco@64nightlabs.de> Reported verification bug in GenericSigner.


Lijun Liao <jhn.liao@gmail.com> added getSignatureAlgorithmID to BasicOCSPResp.

dstutz <https://github.com/dstutz> added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich <tobias.wich@64ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens <hauke@64hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman <dmz@64galois.com> Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitza &lt;lj.kapitza@64schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.
Johan Eklund <johan@064primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn <https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch <axel-vdb@064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins <derek@064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky <peto@064halicky.sk> Correction to notification/error message handling in SignedMailValidator.</li>
<li>Axel von dem Bruch <axel-vdb@riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
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<li>nikosn <https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch <axel-vdb@064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins <derek@064ihtfp.com> Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky <peto@064halicky.sk> Correction to notification/error message handling in SignedMailValidator.</li>
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<li>nikosn <https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.</li>
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<li>nikosn <https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.
<li>jdvorak001 <https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegle <jnaegele@grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre <https://github.com/andybons> NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui <girazoki@064wpi.edu> from Intel Security Center of Excellence <https://security-center.intel.com/> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.</li>
<li>Joerg Senekowitsch <joerg.senekowitsch@064veridos.com> patch to deal with hard coded boolean in EAC ECDSA PublicKey.</li>
<li>Alexandr Krivoshta <wipe@064ya.ru> N4 calculation fix to GOFB mode.</li>
<li>Artjom Storozhuk <storots72@gmail.com> N4 calculation fix to GOFB mode.</li>
<li>Na Yu <na.yu@064samsung.com> Constructor patches to CMC PKIData.</li>
<li>Evangelos Karatsiolis <ekaratsiolis@064mgte.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>VivleSoren <https://github.com/VivleSoren> additional constructor for McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig <https://github.com/mtausig> JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Anders Schack-Mulligen <https://github.com/aschackmull> code cleanups for CMS1SignedDataParser, BrokenKDF2BytesGenerator.</li>
<li>Sebastian Wolfgang Roland <sebastianwolfgang.roland@064stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.</li>
<li>didisoft <https://github.com/didisoft> test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov <https://github.com/MikeSafonov> initial implementation of GOST3410-2012 for light weight provider and JCA (cipher) and their associated modes.</li>
<li>Andreas Glaser <andreas.glaser@gi-de.com> patch to recognise ANSSI curves for PKCS#10 requests.</li>
</ul>

1.1030 fxload 2002_04_11-16.el7

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The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by

http://bjoern.hoehrmann.de/utf-8/decoder/dfa/

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History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created
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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod:` `socket` module uses the functions, `func:` `getaddrinfo`, and `func:` `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Asynchronous socket services
----------------------------

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------------------

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UUencode and UUdecode functions
-------------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
-----------------------------

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Select kqueue
-------------

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-------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
   Samuel Neves (supercop/crypto_auth/siphash24/little)
   djb (supercop/crypto_auth/siphash24/little2)
   Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-----------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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-------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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*
* @param executable The executable of interest.
*
* @return A list with parameter meta data for the given executable.
*/

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jar/org/hibernate/validator/configuration/defs/LengthDef.java
* /opt/cola/permits/110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/internal/metadata/facets/Cascadable.java
* /opt/cola/permits/110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/internal/metadata/aggregated/MetaDataBuilder.java
* /opt/cola/permits/110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/internal/engine/groups/package-info.java
* /opt/cola/permits/110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/configuration/context/ParameterConstraintMappingContextImpl.java
* /opt/cola/permits/110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForLocalDateTime.java
* /opt/cola/permits/110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/configuration/constraints/ScriptAssert.java
* /opt/cola/permits/110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForDate.java
* /opt/cola/permits/110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/configuration/XMLValidatorFactory.java
* /opt/cola/permits/110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/configuration/ValidateStaxBuilder.java
* /opt/cola/permits/110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate/validator/configuration/util/logging/formatter/ExecutableFormatter.java

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9852
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* </p>
* Script expressions can be written in any scripting or expression language,
* for which a `<a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>`
* (“Scripting for the Java<sup>TM</sup> Platform”) compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [@link java.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
* will be used as parameter names.
* </p>
* </p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* {@code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* </p>
* Can be specified on any method or constructor.
* </p>
*
* @author Gunnar Morling
*/

Found in path(s):
*/opt/cola/permits/1110675269_1606843471.5/0/hibernate-validator-6-0-11-final-sources-1-
jar/org/hibernate-validator/constraints/ParameterScriptAssert.java
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  jar/org/hibernate/validator/internal/util/TypeHelper.java

1.1043 toml 3.6.3

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* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/protocol/AbstractLocalURLStreamHandler.java
* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/protocol/AbstractURLConnection.java
* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/protocol/FileURLStreamHandler.java
* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/protocol/FileURLConnection.java

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  jar/org/jboss/vfs/util/ExtensibleFilter.java
* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-
  jar/org/jboss/vfs/util/SuffixMatchFilter.java
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* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-
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* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/VirtualFilePermissionCollection.java
* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/VisitorAttributes.java
* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/VFSUtils.java
* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/VFS.java
* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/util/MatchAllVirtualFileFilter.java
* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/util/PathTokenizer.java
* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/util/FilterVirtualFileVisitor.java
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* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/VFS.java
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* /opt/cola/permits/1110676322_1606843154.35/0/jboss-vfs-3-2-14-final-sources-1-jar/org/jboss/vfs/util/AbstractVirtualFileFilterWithAttributes.java

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org.jboss.as.threads.ThreadsExtension

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  jar/org/jboss/as/threads/ScheduledThreadPoolResourceDefinition.java
* /opt/cola/permits/1110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
  jar/org/jboss/as/threads/ManagedJBossThreadPoolExecutorService.java
* /opt/cola/permits/1110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
  jar/org/jboss/as/threads/BoundedQueueThreadPoolMetricsHandler.java
* /opt/cola/permits/1110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/UnboundedQueueThreadPoolWriteAttributeHandler.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ThreadSubsystemResourceDefinition.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ScheduledThreadPoolWriteAttributeHandler.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ThreadPoolResourceDescriptionResolver.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ThreadPoolMetricsHandler.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ThreadsLogger.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ThreadFactoryWriteAttributeHandler.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ThreadFactoryResourceDefinition.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/QueuelessThreadPoolMetricsHandler.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/BoundedQueueThreadPoolWriteAttributeHandler.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ThreadPoolResourceDescriptionResolver.java
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jar/org/jboss/as/threads/ManagedQueueExecutorService.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ManagedExecutorService.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ManagedQueuelessExecutorService.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/PoolAttributeDefinitions.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ThreadsParser.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/UnboundedQueueThreadPoolMetricsHandler.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ThreadsWriteAttributeOperationHandler.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/ManagedScheduledExecutorService.java
* /opt/cola/permits/110676211_1654023024.9072611/0/wildfly-threads-6-0-2-final-sources-1-
jar/org/jboss/as/threads/QueuelessThreadPoolWriteAttributeHandler.java
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1.1046 nashorn 1.8.0_152-b16

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jdk.nashorn.api.scripting.NashornScriptEngineFactory

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jar/jdk/nashorn/internal/runtime/resources/mozilla_compat.js
* /opt/cola/permits/1105931375_1607124968.53/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/parser.js
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* /opt/cola/permits/1105931375_1607124968.53/0/nashorn-8-
  jar/jdk/nashorn/api/scripting/resources/Messages.properties
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* /opt/cola/permits/1105931375_1607124968.53/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/fx/graphics.js
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* /opt/cola/permits/1105931375_1607124968.53/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/fx/base.js
* /opt/cola/permits/1105931375_1607124968.53/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/fx/web.js
* /opt/cola/permits/1105931375_1607124968.53/0/nashorn-8-jar/jdk/nashorn/internal/runtime/resources/fx/swing.js

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1.1047 jetty 9.3.9.v20160517

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* /opt/cola/permits/1001068468_1607107044.26/0/jetty-server-9-3-9-v20160517-sources-2-jar/org/eclipse/jetty/server/HttpInput.java
* /opt/cola/permits/1001068468_1607107044.26/0/jetty-server-9-3-9-v20160517-sources-2-jar/org/eclipse/jetty/server/ConnectorStatistics.java
* /opt/cola/permits/1001068468_1607107044.26/0/jetty-server-9-3-9-v20160517-sources-2-jar/org/eclipse/jetty/server/UserIdentity.java
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/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections.
 * @param securePort the secure port to redirect to.
 */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
 * @param secureScheme A scheme string like "https"
 */

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* /opt/cola/permits/1001068468_1607107044.26/0/jetty-server-9-3-9-v20160517-sources-2-jar/org/eclipse/jetty/server/HttpConfiguration.java
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1.1048 spring-boot 2.1.8.RELEASE
1.1048.1 Available under license:
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/
A `@link WebApplicationContext` that can be used to bootstrap itself from a contained `@link ServletWebServerFactory` bean.

This context will create, initialize and run an `@link WebServer` by searching for a single `@link ServletWebServerFactory` bean within the `@link ApplicationContext` itself. The `@link ServletWebServerFactory` is free to use standard Spring concepts (such as dependency injection, lifecycle callbacks and property placeholder variables).

In addition, any `@link Servlet` or `@link Filter` beans defined in the context will be automatically registered with the web server. In the case of a single Servlet bean, the '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').

For more advanced configuration, the context can instead define beans that implement the `@link ServletContextInitializer` interface (most often `@link ServletRegistrationBean`s and/or `@link FilterRegistrationBean`s). To prevent double registration, the use of `@link ServletContextInitializer` beans will disable automatic Servlet and Filter bean registration.

Although this context can be used directly, most developers should consider using the `@link AnnotationConfigServletWebServerApplicationContext` or `@link XmlServletWebServerApplicationContext` variants.

@since 2.0.0

@see AnnotationConfigServletWebServerApplicationContext
@see XmlServletWebServerApplicationContext
@see ServletWebServerFactory
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1.jar/org/springframework/boot/web/servlet/context/ServletWebServerApplicationContext.java
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1.jar/org/springframework/boot/context/properties/ConfigurationPropertiesBinder.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1.jar/org/springframework/boot/context/properties/ConfigurationPropertiesBinding.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1.jar/org/springframework/boot/security/package-info.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1.jar/org/springframework/boot/web/embedded/jetty/JettyWebServer.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1.jar/org/springframework/boot/web/codec/CodecCustomizer.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1.jar/org/springframework/boot/web/servlet/error/ErrorController.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1.jar/org/springframework/boot/context/properties/bind/UnboundConfigurationPropertiesException.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1.jar/org/springframework/boot/web/reactive/context/ReactiveWebApplicationContext.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1.jar/org/springframework/boot/diagnostics/analyzer/ConnectorStartFailureAnalyzer.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
jar/org/springframework/boot/context/properties/source/ConfigurationPropertySource.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
jar/org/springframework/boot/context/properties/EnableConfigurationProperties.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
jar/org/springframework/boot/web/servlet/ServletComponentHandler.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
jar/org/springframework/boot/SpringBootExceptionReporter.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
jar/org/springframework/boot/context/annotation/DeterminableImports.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
jar/org/springframework/boot/context/properties/bind/BeanPropertyBinder.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
jar/org/springframework/boot/context/properties/ConfigurationProperties.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
jar/org/springframework/boot/info/package-info.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
jar/org/springframework/boot/context/annotation/Configurations.java
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jar/org/springframework/boot/context/annotation/AnnotationConfigApplicationContext.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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jar/org/springframework/boot/jta/bitronix/BitronixXADataSourceWrapper.java
* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-
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jar/org/springframework/boot/jta/atomikos/AtomikosDependsOnBeanFactoryPostProcessor.java
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* /opt/cola/permits/1136608090_1613807180.26/0/spring-boot-2-1-8-release-sources-1-jar/META-INF/maven/org.springframework.boot/spring-boot/pom.xml

1.1049 go-multierror v1.0.0

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* /opt/cola/permits/1145142271_1654022862.6890676/0/istack-commons-runtime-3-0-5-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml

1.1052 libxrender 0.9.10-1.el7
1.1052.1 Available under license:

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    * /opt/cola/permits/1110674955_1606843695.45/0/jboss-classfilewriter-1-2-3-final-sources-1-
      jar/org/jboss/classfilewriter/util/Signatures.java
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No license file was found, but licenses were detected in source scan.

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<developers>
  <developer>
    <name>Stuart Douglas</name>
    <email>sdouglas@redhat.com</email>
  </developer>
</developers>

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</Export-Package>
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</build>

<scm>
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</scm>

</project>

Found in path(s):
* /opt/cola/permits/1110674955_1606843695.45/0/jboss-classfilewriter-1-2-3-final-sources-1-jar/META-
1.1054 netty 4.1.32.Final

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The End

1.1056 libogg 1.3.0-7.el7
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1.1057 elasticsearch-ssl-config 6.8.5

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1.1058 gtk 3.22.30 5.el7

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44. [48] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo

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46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of
space on the stuff in the html/pic/ subdirectory
48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53]Michael Shields <shields@tembel.org> USNO clock driver
50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock
driver
51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)
52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
53. [57]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast
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### 1.1072 asm-debug-all 5.1

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*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 *
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 *
 * @param desc
 * the class descriptor of the annotation class.
 */
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Found in path(s):
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  jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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*
/**
* Constructs a new [ @link ClassNode ]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [ @link #ClassNode(int)]
* version.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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 */
/**
 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 *
 * @param access
 * the method's access flags (see { @link Opcodes }).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see { @link Type Type }).
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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/**
  * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
* constructor. Instead, they must use the
* {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.
*
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see @link Opcodes).  
* @param name
* the method's name.
* @param desc
* the method's descriptor (see @link Type Type).  
* @param mv
* the method visitor to which this adapter delegates calls. May be <tt>null</tt>. 
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 * @throws IllegalStateException
 * @param clazz The class to be used when constructing the Textifier.
 */

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* Creates a new JSRInliner. *<i>Subclasses must not use this constructor</i>*. Instead, they must use the
* [ @link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
* version.

* * @param mv
* the <code>MethodVisitor</code> to send the resulting inlined method code to (use <code>null</code> for none).
* @param access
* the method's access flags (see { @link Opcodes}). This parameter also indicates if the method is synthetic and/or deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see { @link Type}).
* @param signature
* the method's signature. May be <tt>null</tt>.
* @param exceptions
* the internal names of the method's exception classes (see { @link Type#getInternalName() getInternalName}). May be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

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* /opt/cola/permits/1000764300_1646171503.42/0/commons-validator-1-3-1-sources-
  jar/org/apache/commons/validator/FormSetFactory.java
* /opt/cola/permits/1000764300_1646171503.42/0/commons-validator-1-3-1-sources-
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  jar/org/apache/commons/validator/ValidatorAction.java
* /opt/cola/permits/1000764300_1646171503.42/0/commons-validator-1-3-1-sources-
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  jar/org/apache/commons/validator/ValidatorResults.java
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* /opt/cola/permits/1000764300_1646171503.42/0/commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/LongValidator.java
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* /opt/cola/permits/1000764300_1646171503.42/0/commons-validator-1-3-1-sources-jar/org/apache/commons/validator/package.html
* /opt/cola/permits/1000764300_1646171503.42/0/commons-validator-1-3-1-sources-jar/org/apache/commons/validator/routines/package.html
* /opt/cola/permits/1000764300_1646171503.42/0/commons-validator-1-3-1-sources-jar/org/apache/commons/validator/util/package.html
* /opt/cola/permits/1000764300_1646171503.42/0/commons-validator-1-3-1-sources-jar/org/apache/commons/validator/digester-rules.xml

1.1081 gstreamer-plugins-base 1.10.4-2.el7
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.1082 avalon-framework-api 4.3.1

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Found in path(s):
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/CascadingThrowable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/Version.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/parameters/ParameterException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/service/Serviceable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/activity/Suspendable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/activity/Startable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/thread/SingleThreaded.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/parameters/Reparameterizable.java
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jar/org/apache/avalon/framework/context/Recontextualizable.java
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jar/org/apache/avalon/framework/thread/ThreadSafe.java
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jar/org/apache/avalon/framework/parameters/Parameters.java
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jar/org/apache/avalon/framework/component/Component.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/service/ServiceManager.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/context/ContextException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/activity/Executable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/configuration/ConfigurationException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/logger/AbstractLogEnabled.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/context/Context.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/activity/Contextualizable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/logger/Loggable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/configuration/Configuration.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
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jar/org/apache/avalon/framework/CascadingRuntimeException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/logger/Logger.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/logger/Logger.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/configuration/ConfigurationException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-
jar/org/apache/avalon/framework/activity/Initializable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/CascadingException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/service/ServiceException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/logger/LogEnabled.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/component/ComponentManager.java
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* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/component/ComponentException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/context/Resolvable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/availability/UnavailableException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/component/Recomposable.java
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* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/configuration/Configurable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/availability/UnavailableException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/component/ComponentException.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/activity/Disposable.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/component/ComponentManager.java
* /opt/cola/permits/1001070833_1646171623.47/0/avalon-framework-api-4-3-1-sources-jar/org/apache/avalon/framework/configuration/Reconfigurable.java

1.1083 pyliblzma 0.5.3-11.el7

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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*/opt/cola/permits/1110676194_1606843461.55/0/netty-transport-4-1-34-final-sources-2-jar/io/netty/channel/internal/package-info.java
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* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
  * its [link ChannelPipeline].
  *
  * <h3>Sub-types</h3>
  * <p>
  * [link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
  * subtypes:
  * <ul>
  * <li>[link ChannelInboundHandler] to handle inbound I/O events, and</li>
  * <li>[link ChannelOutboundHandler] to handle outbound I/O operations.</li>
  * </ul>
  * <p>
  * Alternatively, the following adapter classes are provided for your convenience:
  * <ul>
  * <li>[link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
  * <li>[link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
  * <li>[link ChannelDuplexHandler] to handle both inbound and outbound events</li>
  * </ul>
  * <p>
  * For more information, please refer to the documentation of each subtype.
  * </p>
  *
  *
  * <h3>The context object</h3>
  *
  * A [link ChannelHandler] is provided with a [link ChannelHandlerContext]
  * object. A [link ChannelHandler] is supposed to interact with the
  * [link ChannelPipeline] it belongs to via a context object. Using the
  * context object, the [link ChannelHandler] can pass events upstream or
  * downstream, modify the pipeline dynamically, or store the information
  * (using [link AttributeKey]s) which is specific to the handler.
  *
  *
  * <h3>State management</h3>
  *
  * A [link ChannelHandler] often needs to store some stateful information.
  * The simplest and recommended approach is to use member variables:
  * <pre>
  * public interface Message {
  *     // your methods here
  * }
  *
* public class DataServerHandler extends [@link SimpleChannelInboundHandler] &lt; Message &gt; {
*  *
*  * &lt;b&gt;private boolean loggedIn;&lt;/b&gt;
*  *
*  * { @code @Override }
*  * public void channelRead0([ @link ChannelHandlerContext] ctx, Message message) {
*  *     if (message instanceof LoginMessage) {
*  *         authenticate((LoginMessage) message);
*  *         &lt;b&gt;loggedIn = true;&lt;/b&gt;
*  *     } else (message instanceof GetDataMessage) {
*  *         if (&lt;b&gt;loggedIn&lt;/b&gt;) {
*  *             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*  *         } else {
*  *             fail();
*  *         }
*  *     }
*  * }
*  * ...
*  *
*  */
*  * Because the handler instance has a state variable which is dedicated to
*  * one connection, you have to create a new handler instance for each new
*  * channel to avoid a race condition where a unauthenticated client can get
*  * the confidential information:
*  * &lt;pre&gt;
*  * // Create a new handler instance per channel.
*  * // See [ @link ChannelInitializer#initChannel(Channel)].
*  * public class DataServerInitializer extends [@link ChannelInitializer] &lt;@link Channel&gt; &gt; { 
*  * { @code @Override }
*  * public void initChannel([ @link Channel] channel) {
*  *     channel.pipeline().addLast(&quot;handler&quot;, &lt;b&gt;new DataServerHandler()&lt;/b&gt;);
*  * }
*  * }
*  * &lt;/pre&gt;
*  *
*  * &lt;h4&gt;Using [ @link AttributeKey]s&lt;/h4&gt;
*  *
*  * Although it's recommended to use member variables to store the state of a
*  * handler, for some reason you might not want to create many handler instances.
*  * In such a case, you can use [ @link AttributeKey]s which is provided by
*  * [ @link ChannelHandlerContext]:
*  * &lt;pre&gt;
*  * public interface Message {
*  *     // your methods here
*  * }
*  *
*  * { @code @Sharable}
* public class DataServerHandler extends [@link SimpleChannelInboundHandler]\&lt;Message&gt; { public void channelRead( [@link ChannelHandlerContext] ctx, Message message) { if (message instanceof LoginMessage) { authenticate((LoginMessage) o); } else if (message instanceof GetDataMessage) { if (<b>Boolean.TRUE.equals(attr.get())</b>) { ctx.writeAndFlush(fetchSecret((GetDataMessage) o)); } else { fail(); } } else { } }... ... } } </pre>Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the same handler instance to different pipelines: <pre>* public class DataServerInitializer extends [@link ChannelInitializer]\&lt;[@link Channel]\&gt; { public void initChannel( [@link Channel] channel) { channel.pipeline().addLast( "handler", <b>SHARED</b>); } } } </pre>* The [@code @Sharable] annotation</h4>* <p>* In the example above which used an [@link AttributeKey], you might have noticed the [@code @Sharable] annotation. * <p>* If a [@link ChannelHandler] is annotated with the [@code @Sharable] annotation, it means you can create an instance of the handler just once and add it to one or more [@link ChannelPipeline]s multiple times without a race condition. * <p>* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state
such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `@link ChannelHandler`, and `@link ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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jar/io/netty/channel/oio/OioByteStreamChannel.java

1.1097 harfbuzz 0.9.40
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* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/TransactionRolledbackException.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/NotSupportedException.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/InvalidTransactionException.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/HeuristicCommitException.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/Status.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/TransactionManager.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/Transaction.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources-
jar/javax/transaction/HeuristicRollbackException.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/Synchronization.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/TransactionRequiredException.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/HeuristicMixedException.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/SystemException.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/Transaction.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/UserTransaction.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/xa/XAException.java
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/xa/package.html
* /opt/cola/permits/1110674897_1654022893.8071878/0/jboss-transaction-api-1-1-spec-1-0-0-final-sources.jar/javax/transaction/xa/Transaction.java

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1.1103 spring-boot-starter-data-elasticsearch

2.2.2.RELEASE

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* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitter.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/tags/BindErrorsTag.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/tags/AbstractPdfView.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/tags/ContentNegotiatingViewResolver.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/tags/AbstractFormTag.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/tags/form/BindStatus.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxTag.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxTag.java
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* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/i18n/AbstractLocaleContextResolver.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistration.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/view/AbstractUrlBasedView.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/view/InternalResourceView.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestDataBinderFactory.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java
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/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * <tt>@locateSource detected</tt> during response rendering. Users can either specify
*/
* a specific entry in the model via the {@link #setSourceKey sourceKey} property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See {@link #getSourceTypes() here}
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure {@link #setOutputProperties output properties}
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-
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* A contract for inspecting and potentially modifying request data values such
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* view or before a redirect.
*
* Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}.  
*
* @author Rossen Stoyanchev
* @since 3.1
*/

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* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
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* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java

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jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java
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jar/org/springframework/web/servlet/mvc/support/RedirectAttributes.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/spring-webmvc-5-1-6-release-sources-1-
jar/org/springframework/web/servlet/SmartView.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/spring-webmvc-5-1-6-release-sources-1-
jar/org/springframework/web/servlet/handler/AbstractServletHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/spring-webmvc-5-1-6-release-sources-1-
jar/org/springframework/web/servlet/tags/form/RadioButtonsTag.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/spring-webmvc-5-1-6-release-sources-1-
jar/org/springframework/web/servlet/tags/TagIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/spring-webmvc-5-1-6-release-sources-1-
jar/org/springframework/web/servlet/view/tiles3/SpringBeanPreparerFactory.java
* /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/spring-webmvc-5-1-6-release-sources-1-
jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java

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  * /opt/ws_local/PERMITS_SQL/1068794207_1594429781.2/0/spring-webmvc-5-1-6-release-sources-1.jar/org/springframework/web/servlet/mvc/Controller.java
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* /opt/cola/permits/1110676114_1606842998.21/0/spring-beans-5-1-6-release-sources.jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java
* /opt/cola/permits/1110676114_1606842998.21/0/spring-beans-5-1-6-release-sources.jar/org/springframework/beans/factory/xml/AbstractSingleBeanDefinitionParser.java
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1.1111 annotation-indexer 2.0.5.Final

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Manifest-Version: 1.0
Bnd-LastModified: 1520384541064
Build-Jdk: 1.8.0_144
Build-Timestamp: Wed, 7 Mar 2018 12:02:16 +1100
Built-By: stuart
Bundle-Description: Parent POM for JBoss projects. Provides default proj ect build configuration.
Bundle-DocURL: http://www.jboss.org
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Annotation Indexer
Bundle-SymbolicName: org.jboss.jandex
Bundle-Vendor: JBoss by Red Hat
Bundle-Version: 2.0.5.Final
Created-By: Apache Maven Bundle Plugin
Export-Package: org.jboss.jandex;version="2.0.5.Final"
Implementation-Title: Java Annotation Indexer
Implementation-URL: http://www.jboss.org/jandex
Implementation-Vendor: JBoss by Red Hat
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Implementation-Version: 2.0.5.Final
Import-Package: org.apache.tools.ant;resolution:=optional,org.apache.too ls.ant.types;resolution:=optional
Java-Vendor: Oracle Corporation
Java-Version: 1.8.0_144
Main-Class: org.jboss.jandex.Main
Os-Arch: x86_64
Os-Name: Mac OS X
Os-Version: 10.13.3
Scm-Connection: scm:git:git@github.com:jboss/jboss-parent-pom.git/jandex
Scm-Revision: e8a7800652dae80704a502c89ff575bb8c027408a
Scm-Url: http://github.com/jboss/jboss-parent-pom/jandex
Specification-Title: Java Annotation Indexer
Specification-Vendor: JBoss by Red Hat
Specification-Version: 2.0.5.Final
Tool: Bnd-1.50.0

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1.1113 netty-transport-native-unix-common

4.1.45.Final

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  jar/io/netty/channel/unix/UnixChannelUtil.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
  jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
  jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
  jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
  jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
  jar/netty_unix_errors.h
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
  jar/netty_CHANNEL_ChannelConfig.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
  jar/netty_unix_socket.h
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
  jar/netty_unix_socket.h
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* /opt/cola/permits/1110676251_1606843852.93/0/undertow-server-servlet-1-2-3-final-sources-1-jar/org/wildfly/elytron/web/undertow/server/servlet/IdentityMapping.java
* /opt/cola/permits/1110676251_1606843852.93/0/undertow-server-servlet-1-2-3-final-sources-1-jar/org/wildfly/elytron/web/undertow/server/servlet/AuthenticationManager.java
* /opt/cola/permits/1110676251_1606843852.93/0/undertow-server-servlet-1-2-3-final-sources-1-jar/org/wildfly/elytron/web/undertow/server/servlet/ElytronHttpServletExchange.java
* /opt/cola/permits/1110676251_1606843852.93/0/undertow-server-servlet-1-2-3-final-sources-1-jar/org/wildfly/elytron/web/undertow/server/servlet/ElytronAuthorizationManager.java
* /opt/cola/permits/1110676251_1606843852.93/0/undertow-server-servlet-1-2-3-final-sources-1-jar/org/wildfly/elytron/web/undertow/server/servlet/RunAsLifecycleInterceptor.java

1.1115 libmodman 2.0.1-8.el7
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1.1126 undertow-core 2.0.13.Final

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 */

/**
 * An extension to AbstractConfidentialityHandler that uses the Host header from the incoming message and specifies the
 * confidential address by just switching the port.
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */

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* /opt/ws_local/PERMITS_SQL/1091710384_1600571926.25/0/undertow-core-2.0.13-final-sources-
jar/io/undertow/security/impl/AbstractSecurityContext.java
* /opt/ws_local/PERMITS_SQL/1091710384_1600571926.25/0/undertow-core-2.0.13-final-sources-
jar/io/undertow/security/api/AuthenticationMechanismContext.java
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 */
/**
 * Handler responsible for checking of confidentiality is required for the requested resource and if so rejecting the
 * request
 * and redirecting to a secure address.
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */
/**
 * Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
 * Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual
 * SSLSession.
 *
 * @param exchange - The { @link HttpServerExchange} for the request being processed.
 * @return true if the request is 'sufficiently' confidential, false otherwise.
 */
/**
 * Use the HttpServerExchange to identify if confidentiality is required.
 *
 * This method currently returns true for all requests, sub-classes can override this to provide a custom check.
 */
* TODO: we should deprecate this and just use a predicate to decide to execute the handler instead

* @param exchange - The {@link HttpServerExchange} for the request being processed.
* @return true if the request requires confidentiality, false otherwise.
*/

/**
* All sub-classes are required to provide an implementation of this method, using the HttpServerExchange for the current request return the address to use for a redirect should confidentiality be required and the request not be confidential.
* @param exchange - The {@link HttpServerExchange} for the request being processed.
* @return The [@link URI] to redirect to.
*/

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io.undertow.protocols.ssl.SNIAlpnEngineManager
io.undertow.protocols.alpn.DefaultAlpnEngineManager

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 */

/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
*<p>This method acts as bridge between array-based and collection-based APIs.
*<p>@return an array containing all of the elements in this deque
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1091710384_1600571926.25/0/undertow-core-2-0-13-final-sources-jar/io/undertow/util/PortableConcurrentDirectDeque.java

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* /opt/ws_local/PERMITS_SQL/1091710384_1600571926.25/0/undertow-core-2-0-13-final-sources.jar/io/undertow/client/ClientRequest.java
* /opt/ws_local/PERMITS_SQL/1091710384_1600571926.25/0/undertow-core-2-0-13-final-sources.jar/io/undertow/server/session/SessionManagerStatistics.java
* /opt/ws_local/PERMITS_SQL/1091710384_1600571926.25/0/undertow-core-2-0-13-final-sources-
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 */
Encodes and decodes to and from Base64 notation.


Example:

```java
String encoded = Base64.encode( myByteArray );
byte[] myByteArray = Base64.decode( encoded );
```

The `options` parameter, which appears in a few places, is used to pass several pieces of information to the encoder.

In the "higher level" methods such as `encodeBytes( bytes, options )` the options parameter can be used to indicate such things

- as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered 
- dialects.

Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations should not add
- line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines
- by default.
* The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:
  *
  *
  * `<code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>`
  *
  *
  * to compress the data before encoding it and then making the output have newline characters.
  *
  *
  * Also...
  *
  *
  * `<code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>`
  *
  *
  *
  * Change Log:
  *
  *
  *
  * `<li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base
64 character
  * but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential
for better
  * handling) of other bad input characters. You should now get an IOException if you try decoding something that
has bad
  * characters in it.</li>
  *
  *
  *
  * `<li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the
buffer was
  * not properly shrunk and contained an extra (null) byte that made it into the string.</li>
  *
  *
  *
  * `<li>v2.3.5 - Fixed bug in [@link #encodeFromFile] where estimated buffer size was wrong for files of size 31, 34, and
37
  * bytes.</li>
  *
  *
  *
  * `<li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the
Base64 encoding
  * (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped
streams. Also
  * added experimental support for specifying a class loader when using the
  * [@link #decodeToObject(String, int, ClassLoader)] method.</li>
  *
  *
  *
  * `<li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its
CharEncoders and so
  * forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like java.io.IOException
explicitly
  * inline.</li>
  *
  *
  *
  * `<li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be
so that the
  * code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win
when using
  * the [@link #encodeBytesToBytes(byte[])] family of methods (and not using the gzip options which uses a
different mechanism
* with streams and stuff).</li>
* <li>v2.3.1 - Added [@link #encodeBytesToBytes(byte[], int, int, int)] and some similar helper methods to be more efficient
* with memory by not returning a String but just a byte array.</li>
* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments and bug fixes queued up and
* finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone
* else. Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or
* something similar. Here are some changes that may affect you:
* <ul>
* <li><em>Does not break lines, by default.</em> This is to keep in compliance with <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>.</li>
* <li><em>Throws exceptions instead of returning null values.</em> Because some operations (especially those that may permit
* the GZIP option) use IO streams, there is a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions rather than return null if ever there's an
* error. I think this is more appropriate, though it will require some changes to your code. Sorry, it should have been done
* this way to begin with.</li>
* <li><em>Removed all references to System.out, System.err, and the like.</em> Shame on me. All I can say is sorry they were
* ever there.</li>
* <li><em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed such as when passed arrays are null or
* offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings. This was especially annoying before
* for people who
* were thorough in their own projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~&lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to
* support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
* <ol>
* <li>The default is RFC3548 format.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves
* lexical ordering as described in http://www.faqs.org/qa/rfc-1940.html</li>
* </ol>
* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a> for contributing the new
* Base64 dialects.</li>
*
* cli>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and
* writing to and from files.</li>
* cli>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>
* cli>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
* cli>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code
* now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are
* cleaner. You'll probably have to change some method calls that you were making to support the new options format ( *
* <tt>int</tt>s that you "OR" together).</li>
* cli>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>. *
* Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed *
* base64 data in an otherwise "normal" stream (like an XML file).</li>
* cli>v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added *
* the ability to GZip-compress objects before encoding them.</li>
* cli>v1.4 - Added helper methods to read/write files.</li>
* cli>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* cli>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not *
* completely full, was not returned.</li>
* cli>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* cli>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
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* </p>
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
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* /opt/cola/permits/1000521210_165402287.8267305/0/hornetq-commons-2-3-0-cr1-sources-
  jar/org/hornetq/utils/HornetQThreadFactory.java
* /opt/cola/permits/1000521210_165402287.8267305/0/hornetq-commons-2-3-0-cr1-sources-
  jar/org/hornetq/core/buffers/impl/ChannelBufferWrapper.java
* /opt/cola/permits/1000521210_165402287.8267305/0/hornetq-commons-2-3-0-cr1-sources-
  jar/org/hornetq/utils/ConcurrentSet.java
* /opt/cola/permits/1000521210_165402287.8267305/0/hornetq-commons-2-3-0-cr1-sources-
  jar/org/hornetq/utils/ConcurrentSet.java
*/
No license file was found, but licenses were detected in source scan.

/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 *
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 *
 * <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.</p>
 *
 * <p>The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:</p>
 *
 * <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES );</code>
 *
 * <p>to compress the data before encoding it and then making the output have no newline characters.</p>
 *
 * <p></p>
 *
 * <p>Change Log:</p>
 *
 * <ul>
 * <li>v2.2.2 - Fixed encodeFileToStream and decodeFileToStream to use the
 * Base64.InputStream class to encode and decode on the fly which uses
 * less memory than encoding/decoding an entire file into memory before writing.</li>
 * <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
 * when using very small files (~< 40 bytes).</li>
 * <li>v2.2 - Added some helper methods for encoding/decoding directly from
 * one file to the next. Also added a main() method to support command line
 * encoding/decoding from one file to the next. Also added these Base64 dialects:</li>
 * <ol>
 * <li>The default is RFC3548 format.</li>
 * <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
 * URL and file name friendly format as described in Section 4 of RFC3548.</li>
 */
<li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html</li>
<li>Special thanks to Jim Kellerman at http://www.powerset.com for contributing the new Base64 dialects.</li>
<li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.</li>
<li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>
<li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
<li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (<tt>int</tt>s that you "OR" together).</li>
<li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>. Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).</li>
<li>v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.</li>
<li>v1.4 - Added helper methods to read/write files.</li>
<li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
<li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.</li>
<li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
<li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
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<p>rob@iharder.net</p>
<p>version 2.2.2</p>
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# Names should be added to this file like so:
#    Individual's name <submission email address>
#    Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
#
# Please keep the list sorted.

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* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/streams/ChannelOutputStream.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/Channels.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/SuspendableReadChannel.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/StreamSinkChannel.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/AbstractIoFuture.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/Configurable.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/IoFuture.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/WritableMessageChannel.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/ReadableMultipointMessageChannel.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/ReadableMessageChannel.java

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 * /opt/cola/permits/110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1.jar/org/xnio/channels/BlockingWritableByteChannel.java
 * /opt/cola/permits/110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1.jar/org/xnio/sasl/SaslStrength.java
 * /opt/cola/permits/110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1.jar/org/xnio/OptionMap.java
 * /opt/cola/permits/110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1.jar/org/xnio/ByteString.java
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 * /opt/cola/permits/110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1.jar/org/xnio/channels/BlockingByteChannel.java
 * /opt/cola/permits/110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1.jar/org/xnio/Sequence.java
 * /opt/cola/permits/110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1.jar/org/xnio/FutureResult.java
 * /opt/cola/permits/110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1.jar/org/xnio/channels/SslChannel.java

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* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/SocketAddressBuffer.java
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* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/ByteBufferSlicePool.java
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/**
 * A QOP value specifying authentication plus integrity and confidentiality protection.
 */

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* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/FixedLengthStreamSourceChannel.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/AssembledStreamChannel.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/AssembledConnectedSslStreamChannel.java
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* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/channels/AssembledMessageChannel.java
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* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1.jar/org/xnio/CompressionType.java
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* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1.jar/org/xnio/channels/WriteTimeoutException.java
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* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/sasl/SaslUnwrappingConduit.java
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* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/conduits/ReadReadyHandler.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/conduits/MessageSinkConduit.java
* /opt/cola/permits/1110675511_1606843952.33/0/xnio-api-3-6-5-final-sources-1-jar/org/xnio/AutomaticReference.java
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1.1162 jackson 2.8.6

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* Typically used to ensure the principal is permitted to access the domain object instance returned by a service layer bean. Can also be used to mutate the domain object instance so the principal is only able to access authorised bean properties or `<code>Collection</code>` elements.

* Special consideration should be given to using an `<code>AfterInvocationManager</code>` on bean methods that modify a database. Typically an `<code>AfterInvocationManager</code>` is used with read-only methods, such as `<code>public DomainObject getById(id)</code>`. If used with methods that modify a database, a transaction manager should be used to ensure any `<code>AccessDeniedException</code>` will cause a rollback of the changes made by the transaction.

* @author Ben Alex

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* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/access/event/AbstractAuthorizationEvent.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/authentication/AuthenticationServiceException.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationSuccessEvent.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/core/context/InheritableThreadLocalSecurityContextHolderStrategy.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/authentication/event/InteractiveAuthenticationSuccessEvent.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/access/vote/ConsensusBased.java
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/authentication/dao/ReflectionSaltSource.java
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/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be checked. May be null
 * in which case implementations should return false, as the null condition can be checked explicitly
 * @param permission a representation of the permission object as supplied by the expression system. Not null.
 * @return true if the permission is granted, false otherwise
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1-jar/org/springframework/security/access/PermissionEvaluator.java

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  jar/org/springframework/security/crypto/bcrypt/BCryptPasswordEncoder.java

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*<p>*

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*<p>*

@author Ben Alex

@since 2.0.1
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1074377843_1595816935.22/0/spring-security-core-3-1-4-release-sources-1.jar/org/springframework/security/core/token/Token.java
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 */

/**
 * Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest Algorithm.
 *
 * @author Alan Stewart
 */

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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/**
* A {[@link WebApplicationContext]} that can be used to bootstrap itself from a contained
* {[@link ServletWebServerFactory]} bean.
* <p>
This context will create, initialize and run an `WebServer` by searching for a single `ServletWebServerFactory` bean within the `ApplicationContext` itself. The `ServletWebServerFactory` is free to use standard Spring concepts (such as dependency injection, lifecycle callbacks and property placeholder variables).

In addition, any `Servlet` or `Filter` beans defined in the context will be automatically registered with the web server. In the case of a single `Servlet` bean, the `/*` mapping will be used. If multiple `Servlet` beans are found then the lowercase bean name will be used as a mapping prefix. Any `Servlet` named 'dispatcherServlet' will always be mapped to '/*'. `Filter` beans will be mapped to all URLs ('/*').

For more advanced configuration, the context can instead define beans that implement the `ServletContextInitializer` interface (most often `ServletRegistrationBean` s and/or `FilterRegistrationBean` s). To prevent double registration, the use of `ServletContextInitializer` beans will disable automatic `Servlet` and `Filter` bean registration.

Although this context can be used directly, most developers should consider using the `AnnotationConfigServletWebServerApplicationContext` or `XmlServletWebServerApplicationContext` variants.

@since 2.0.0
@see AnnotationConfigServletWebServerApplicationContext
@see XmlServletWebServerApplicationContext
@see ServletWebServerFactory

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=head1 NAME
constant - Perl pragma to declare constants

=head1 SYNOPSIS

use constant PI => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "\n" if DEBUG;

use constant {
    SEC => 0,
    MIN => 1,
    HOUR => 2,
    MDAY => 3,
    MON => 4,
    YEAR => 5,
    WDAY => 6,
    YDAY => 7,
    ISDST => 8,
};
use constant WEEKDAYS => qw(
  Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);

print "Today is ", (WEEKDAYS)[(localtime)[WDAY] ], ",\n";

=head1 DESCRIPTION

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown above, each machine your script runs upon can have as many digits of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an C<if (CONSTANT)> block will be optimized away if the constant is false.

=head1 NOTES

As with all C<use> directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like C<if ($foo)
{ use constant ... }>).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

    print "Pi equals PI...
";        # WRONG: does not expand "PI"
    print "Pi equals ".PI."\n";    # right

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

    use constant ARRAY => [ 1,2,3,4 ];
    print ARRAY->[1];
    ARRAY->[1] = " be changed";
    print ARRAY->[1];

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a
constant defined in another package, specify the full package name, as in C<Some::Package::CONSTANT>. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as C<< Some::Package->CONSTANT >> or as C<< $obj->CONSTANT >> where C<$obj> is an instance of C<Some::Package>. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to C<undef> in scalar context. Note that constants with more than one value do I<not> return their last value in scalar context as one might expect. They currently return the number of values, but B<this may change in the future>. Do not use constants with multiple values in scalar context.

B<NOTE:> This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

    use constant TIMESTAMP => localtime;                # WRONG!
    use constant TIMESTAMP => scalar localtime;         # right

The first line above defines C<TIMESTAMP> as a 9-element list, as returned by C<localtime()> in list context. To set it to the string returned by C<localtime()> in scalar context, an explicit C<scalar> keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

    my @workdays = WEEKDAYS[1 .. 5];            # WRONG!
    my @workdays = (WEEKDAYS)[1 .. 5];          # right

=head2 Defining multiple constants at once

Instead of writing multiple C<use constant> statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.
use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!", # Error!
};

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until I<after> the C<use> statement is finished.

use constant {
    BITMASK => 0xAFBAEBA8,
    NEGMASK => ~BITMASK, # Error!
};

=head2 Magic constants

Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)

use constant E2BIG => ($! = 7);
print E2BIG, "\n"; # something like "Arg list too long"
print 0+E2BIG, "\n"; # "7"

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/Constant Functions/> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is
used.
sub declared ($) {
use constant 1.01;
# don't omit this!
my $name = shift;
$name =~ s/^::/main::/;
my $pkg = caller;
my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
$constant::declared{$full_name};
}
=head1 CAVEATS
In the current version of Perl, list constants are not inlined
and some symbols may be redefined without generating a warning.
It is not possible to have a subroutine or a keyword with the same
name as a constant in the same package. This is probably a Good Thing.
A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT
ENV INC SIG> is not allowed anywhere but in package C<main::>, for
technical reasons.
Unlike constants in some languages, these cannot be overridden
on the command line or via environment variables.
You can get into trouble if you use constants in a context which
automatically quotes barewords (as is true for any subroutine call).
For example, you can't say C<$hash{CONSTANT}> because C<CONSTANT> will
be interpreted as a string. Use C<$hash{CONSTANT()}> or
C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from
kicking in. Similarly, since the C<< => >> operator quotes a bareword
immediately to its left, you have to say C<< CONSTANT() => 'value' >>
(or simply use a comma in place of the big arrow) instead of
C<< CONSTANT => 'value' >>.
=head1 SEE ALSO
L<Readonly> - Facility for creating read-only scalars, arrays, hashes.
L<Attribute::Constant> - Make read-only variables via attribute
L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag
L<Hash::Util> - A selection of general-utility hash subroutines (mostly
to lock/unlock keys and values)
=head1 BUGS

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Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<F<rootbeer@redcat.com>E>, with help from many other folks.

Multiple constant declarations at once added by Casey West,
E<F<casey@geeknest.com>E>.

Documentation mostly rewritten by Ilmari Karonen,
E<F<perl@itz.pp.sci.fi>E>.

This program is maintained by the Perl 5 Porters.
The CPAN distribution is maintained by SE<eacute>bastien Aperghis-Tramoni
E<F<sebastien@aperghis.net>E>.

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  TwFsgXwu/constant-1.27.tar.gz-cosi-expand-archive-SqgHML5Z/constant-1.27/lib/constant.pm

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---
abstract: 'Perl pragma to declare constants'
author:
- 'SÃ©bastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: constant
provides:
NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an "if (CONSTANT)" block will be optimized away if the constant is false.

INSTALLATION

To install this module, run the following commands:

perl Makefile.PL
make
make test
make install

Alternatively, to install with Module::Build, you can use the following commands:

perl Build.PL
./Build
./Build test
./Build install

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with
the perldoc command.

perldoc constant

You can also look for information at:

Search CPAN
   http://search.cpan.org/dist/constant

CPAN Request Tracker:
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/server/mgmt/HttpShutdownService.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/server/operations/ServerProcessStateHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/server/mgmt/HttpManagementRequestsService.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/server/suspend/CountingRequestCountCallback.java

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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
  jar/org/jboss/as/server/deploymentoverlay/DeploymentOverlayRedeployLinksHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
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  jar/org/jboss/as/server/ServerEnvironmentSystemPropertyUpdater.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
jar/org/jboss/as/server/controller/resources/SystemPropertyResourceDefinition.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
jar/org/jboss/as/server/controller/resources/VaultResourceDefinition.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
jar/org/jboss/as/server/controller/resources/DeploymentAttributes.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
jar/org/jboss/as/server/mgmt/domain/ServerToHostRemoteFileRequestAndHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
jar/org/jboss/as/server/operations/ServerProcessReloadHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
jar/org/jboss/as/server/services/security/AbstractVaultReader.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
jar/org/jboss/as/server/RuntimeExpressionResolver.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
jar/org/jboss/as/server/controller/resources/SecurityActions.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
jar/org/jboss/as/server/jmx/PluggableMBeanServer.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
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jar/org/jboss/as/server/controller/resources/ServerDeploymentResourceDefinition.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/mgmt/UndertowHttpManagementService.java
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/as/server/deployment/AttachmentKey.java
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/as/server/mgmt/domain/HostControllerClient.java

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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/parsing/PathsXml.java

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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/parsing/StandaloneXml_6.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/parsing/StandaloneXml_8.java

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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/schema/jboss-as-config_1_3.xsd
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
  jar/org/jboss/as/server/services/net/InterfaceRemoveHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
  jar/org/jboss/as/server/services/net/InterfaceResourceDefinition.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
  jar/org/jboss/as/server/deployment/DeferredDeploymentOverlayDeploymentUnitProcessor.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
  jar/org/jboss/as/server/deployment/DeploymentResourceSupport.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
  jar/org/jboss/as/server/deployment/ContentCleanerService.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
  jar/org/jboss/as/server/deployment/ContentRepositoryCleaner.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
  jar/org/jboss/as/server/operations/CleanObsoleteContentHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/operations/ServerSuspendHandler.java
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/services/net/BindingPortHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/services/net/BindingAddHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/services/net/SpecifiedInterfaceAddHandler.java
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/deployment/DeploymentRemoveHandler.java
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/as/server/services/net/BindingMetricHandlers.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/as/server/services/net/RemoteDestinationOutboundSocketBindingAddHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/as/server/services/net/LocalDestinationOutboundSocketBindingService.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/as/server/operations/HttpManagementRemoveHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/as/server/deployment/reflect/CleanupReflectionIndexProcessor.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1.jar/org/jboss/as/server/Bootstrap.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/deployment/DeploymentStatusHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/deployment/reflect/InstallReflectionIndexProcessor.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/logging/ServerLogger.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/operations/SuspendStateReadHandler.java
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/mgmt/NativeManagementResourceDefinition.java
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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/DeployerChainAddHandler.java
* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/DeploymentProcessorTarget.java

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* /opt/cola/permits/1110676462_1654023056.6579578/0/wildfly-server-6-0-2-final-sources-1-jar/org/jboss/as/server/controller/git/GitRepository.java
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The KStem stemmer in analysis/common/src/org/apache/lucene/analysis/en was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.


The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
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- analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishMinimalStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.

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<!--
W3C XML Schema defined in the Web Services Addressing 1.0 specification
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1.1213 jul-to-slf4j-stub 1.0.1.Final
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1.1214 tiger-types 1.4

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1.1215 wildfly-http-naming-client 1.0.12.Final
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org.wildfly.httpclient.naming.HttpNamingContextFactory

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#
org.wildfly.httpclient.naming.HttpNamingProviderFactory

Found in path(s):

1.1216 tools-ant 1.7.0
1.1216.1 Available under license :

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* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/condition/IsFalse.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/Target.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/selectors/OrSelector.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/Javac12.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/util/ClasspathUtils.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/filters/StripJavaComments.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/MakeUrl.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/Chmod.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/condition/ConditionBase.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/selectors/AndSelector.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/Comparison.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/IntrospectionHelper.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/WhichResource.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/types/selectors/SelectSelector.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-jar/org/apache/tools/ant/taskdefs/compilers/Javac12.java
jar/org/apache/tools/ant/types/resources/selectors/Date.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/BuildListener.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/input/InputHandler.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/types/selectors/ContainsRegexpSelector.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/types/selectors/UnknownElement.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/Types.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/UnknownElement.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/types/resources/Type.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/taskdefs/PathConvert.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/taskdefs/ant/AntClassLoader.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/types/selectors/modifiedselector/EqualComparator.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/taskdefs/Antlib.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/taskdefs/Sync.java
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/taskdefs/SendEmail.java
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  jar/org/apache/tools/ant/types/conditions/antlib.xml
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*
*/
/**
/*
* A class to help send SMTP email.
* This class is an improvement on the sun.net.smtp.SmtpClient class
* found in the JDK. This version has extra functionality, and can be used
* with JVMs that did not extend from the JDK. It's not as robust as
* the JavaMail Standard Extension classes, but it's easier to use and
* easier to install, and has an Open Source license.
* <p>
* It can be used like this:
* <blockquote><pre>
* String mailhost = "localhost";  // or another mail host
* String from = "Mail Message Servlet &lt;MailMessage@server.com&gt;";
* String to = "to@you.com";
* String cc1 = "cc1@you.com";
* String cc2 = "cc2@you.com";
* String bcc = "bcc@you.com";
* &nbsp;
* MailMessage msg = new MailMessage(mailhost);
* msg.setPort(25);
* msg.from(from);
* msg.to(to);
* msg.cc(cc1);
* msg.cc(cc2);
* msg.bcc(bcc);
*/
msg.setSubject("Test subject");
PrintStream out = msg.getPrintStream();
&nbsp;
Enumeration enum = req.getParameterNames();
while (enum.hasMoreElements()) {
  String name = (String)enum.nextElement();
  String value = req.getParameter(name);
  out.println(name + " = " + value);
}
&nbsp;
msg.sendAndClose();
</pre></blockquote>
<p>
Be sure to set the from address, then set the recipient
addresses, then set the subject and other headers, then get the
PrintStream, then write the message, and finally send and close.
The class does minimal error checking internally; it counts on the mail
host to complain if there's any malformed input or out of order
execution.
<p>
An attachment mechanism based on RFC 1521 could be implemented on top of
this class. In the meanwhile, JavaMail is the best solution for sending
email with attachments.
<p>
Still to do:
<ul>
<li>Figure out how to close the connection in case of error
</li></ul>

@version 1.1, 2000/03/19, added angle brackets to address, helps some servers
version 1.0, 1999/12/29
*/

Found in path(s):
* /opt/cola/permits/1001074045_1607068014.250/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/mail/MailMessage.java
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*
*/
/**
 * This class implements a security manager meant for usage by tasks that run inside the
 * Ant VM. An examples are the Java Task and JUnitTask.
 *
 * The basic functionality is that nothing (except for a base set of permissions) is allowed, unless
 * the permission is granted either explicitly or implicitly.
 * If a permission is granted this can be overruled by explicitly revoking the permission.
 *
 * It is not permissible to add permissions (either granted or revoked) while the Security Manager
 * is active (after calling setSecurityManager() but before calling restoreSecurityManager()).
 *
 * @since Ant 1.6
 */

Found in path(s):
* /opt/cola/permits/1001074045_1607068014.25/0/com-springsource-org-apache-tools-ant-1-7-0-sources-1-
jar/org/apache/tools/ant/types/Permissions.java

1.1217 perl-podlators 2.5.1-3.el7

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=head1 NAME

perlpodstyle - Perl POD style guide

=head1 DESCRIPTION

These are general guidelines for how to write POD documentation for Perl
scripts and modules, based on general guidelines for writing good UNIX man
pages. All of these guidelines are, of course, optional, but following
them will make your documentation more consistent with other documentation
on the system.

The name of the program being documented is conventionally written in bold
(using BE<lt>E<gt>) wherever it occurs, as are all program options.
Arguments should be written in italics (IE<lt>E<gt>). Function names are
traditionally written in italics; if you write a function as function(),
Pod::Man will take care of this for you. Literal code or commands should
be in \texttt{CE<lt>E\textgreater>}. References to other man pages should be in the form \texttt{C<manpage(section)>} or \texttt{C<LE<lt>manpage(section)E\textgreater>}, and Pod::Man will automatically format those appropriately. The second form, with \texttt{LE<lt>E\textgreater>}, is used to request that a POD formatter make a link to the man page if possible. As an exception, one normally omits the section when referring to module documentation since it's not clear what section module documentation will be in; use \texttt{C<LE<lt>Module::NameE\textgreater>} for module references instead.

References to other programs or functions are normally in the form of man page references so that cross-referencing tools can provide the user with links and the like. It's possible to overdo this, though, so be careful not to clutter your documentation with too much markup. References to other programs that are not given as man page references should be enclosed in \texttt{BE<lt>E\textgreater>}.

The major headers should be set out using a \texttt{C<=head1>} directive, and are historically written in the rather startling ALL UPPER CASE format; this is not mandatory, but it's strongly recommended so that sections have consistent naming across different software packages. Minor headers may be included using \texttt{C<=head2>}, and are typically in mixed case.

The standard sections of a manual page are:

\begin{verbatim}
=over 4
=行政

Mandatory section; should be a comma-separated list of programs or functions documented by this POD page, such as:

\begin{verbatim}
foo, bar - programs to do something
\end{verbatim}

Manual page indexers are often extremely picky about the format of this section, so don't put anything in it except this line. Every program or function documented by this POD page should be listed, separated by a comma and a space. For a Perl module, just give the module name. A single dash, and only a single dash, should separate the list of programs or functions from the description. Do not use any markup such as \texttt{CE<lt>E\textgreater>} or \texttt{BE<lt>E\textgreater>} anywhere in this line. Functions should not be qualified with \texttt{C<>()} or the like. The description should ideally fit on a single line, even if a man program replaces the dash with a few tabs.

=行政

A short usage summary for programs and functions. This section is mandatory for section 3 pages. For Perl module documentation, it's usually convenient to have the contents of this section be a verbatim
block showing some (brief) examples of typical ways the module is used.

=item DESCRIPTION

Extended description and discussion of the program or functions, or the body of the documentation for man pages that document something else. If particularly long, it's a good idea to break this up into subsections C<=head2> directives like:

=head2 Normal Usage

=head2 Advanced Features

=head2 Writing Configuration Files

or whatever is appropriate for your documentation.

For a module, this is generally where the documentation of the interfaces provided by the module goes, usually in the form of a list with an C<=item> for each interface. Depending on how many interfaces there are, you may want to put that documentation in separate METHODS, FUNCTIONS, CLASS METHODS, or INSTANCE METHODS sections instead and save the DESCRIPTION section for an overview.

=item OPTIONS

Detailed description of each of the command-line options taken by the program. This should be separate from the description for the use of parsers like L<Pod::Usage>. This is normally presented as a list, with each option as a separate C<=item>. The specific option string should be enclosed in BE<lt>E<gt>. Any values that the option takes should be enclosed in IE<lt>E<gt>. For example, the section for the option B<--section>=I<manext> would be introduced with:

=item B<--section>=I<manext>

Synonymous options (like both the short and long forms) are separated by a comma and a space on the same C<=item> line, or optionally listed as their own item with a reference to the canonical name. For example, since B<--section> can also be written as B<-s>, the above would be:

=item B<-s> I<manext>, B<--section>=I<manext>

Writing the short option first is recommended because it's easier to read. The long option is long enough to draw the eye to it anyway and the short option can otherwise get lost in visual noise.

=item RETURN VALUE
What the program or function returns, if successful. This section can be omitted for programs whose precise exit codes aren't important, provided they return 0 on success and non-zero on failure as is standard. It should always be present for functions. For modules, it may be useful to summarize return values from the module interface here, or it may be more useful to discuss return values separately in the documentation of each function or method the module provides.

=item ERRORS

Exceptions, error return codes, exit statuses, and errno settings. Typically used for function or module documentation; program documentation uses DIAGNOSTICS instead. The general rule of thumb is that errors printed to C<STDOUT> or C<STDERR> and intended for the end user are documented in DIAGNOSTICS while errors passed internal to the calling program and intended for other programmers are documented in ERRORS. When documenting a function that sets errno, a full list of the possible errno values should be given here.

=item DIAGNOSTICS

All possible messages the program can print out and what they mean. You may wish to follow the same documentation style as the Perl documentation; see perldiag(1) for more details (and look at the POD source as well).

If applicable, please include details on what the user should do to correct the error; documenting an error as indicating "the input buffer is too small" without telling the user how to increase the size of the input buffer (or at least telling them that it isn't possible) aren't very useful.

=item EXAMPLES

Give some example uses of the program or function. Don't skimp; users often find this the most useful part of the documentation. The examples are generally given as verbatim paragraphs.

Don't just present an example without explaining what it does. Adding a short paragraph saying what the example will do can increase the value of the example immensely.

=item ENVIRONMENT

Environment variables that the program cares about, normally presented as a list using C<over>, C<item>, and C<back>. For example:

=over 6

Open Source Used In Data Center Network Manager 11.5(1) 11277

Open Source Used In Data Center Network Manager 11.5(1) 11277
=item HOME

Used to determine the user's home directory. F<.foorc> in this directory is read for configuration details, if it exists.

=back

Since environment variables are normally in all uppercase, no additional special formatting is generally needed; they're glaring enough as it is.

=item FILES

All files used by the program or function, normally presented as a list, and what it uses them for. File names should be enclosed in FE<lt>E<gt>. It's particularly important to document files that will be potentially modified.

=item CAVEATS

Things to take special care with, sometimes called WARNINGS.

=item BUGS

Things that are broken or just don't work quite right.

=item RESTRICTIONS

Bugs you don't plan to fix. :-)

=item NOTES

Miscellaneous commentary.

=item AUTHOR

Who wrote it (use AUTHORS for multiple people). It's a good idea to include your current e-mail address (or some e-mail address to which bug reports should be sent) or some other contact information so that users have a way of contacting you. Remember that program documentation tends to roam the wild for far longer than you expect and pick a contact method that's likely to last.

=item HISTORY

Programs derived from other sources sometimes have this. Some people keep a modification log here, but that usually gets long and is normally better maintained in a separate file.
=item COPYRIGHT AND LICENSE

For copyright

Copyright YEAR(s) YOUR NAME(s)

(No, (C) is not needed. No, "all rights reserved" is not needed.)

For licensing the easiest way is to use the same licensing as Perl itself:

This library is free software; you may redistribute it and/or modify
it under the same terms as Perl itself.

This makes it easy for people to use your module with Perl. Note that
this licensing example is neither an endorsement or a requirement, you are
of course free to choose any licensing.

=item SEE ALSO

Other man pages to check out, like man(1), man(7), makewhatis(8), or
catman(8). Normally a simple list of man pages separated by commas, or a
paragraph giving the name of a reference work. Man page references, if
they use the standard C<name(section)> form, don't have to be enclosed in
LE<lt>E<gt> (although it's recommended), but other things in this section
probably should be when appropriate.

If the package has a mailing list, include a URL or subscription
instructions here.

If the package has a web site, include a URL here.

=back

Documentation of object-oriented libraries or modules may want to use
CONSTRUCTORS and METHODS sections, or CLASS METHODS and INSTANCE METHODS
sections, for detailed documentation of the parts of the library and save
the DESCRIPTION section for an overview. Large modules with a function
interface may want to use FUNCTIONS for similar reasons. Some people use
OVERVIEW to summarize the description if it's quite long.

Section ordering varies, although NAME must always be the first section
(you'll break some man page systems otherwise), and NAME, SYNOPISIS,
DESCRIPTION, and OPTIONS generally always occur first and in that order if
present. In general, SEE ALSO, AUTHOR, and similar material should be
left for last. Some systems also move WARNINGS and NOTES to last. The
order given above should be reasonable for most purposes.
Some systems use CONFORMING TO to note conformance to relevant standards and MT-LEVEL to note safeness for use in threaded programs or signal handlers. These headings are primarily useful when documenting parts of a C library.

Finally, as a general note, try not to use an excessive amount of markup. As documented here and in L<man::Man>, you can safely leave Perl variables, function names, man page references, and the like unadorned by markup and the POD translators will figure it out for you. This makes it much easier to later edit the documentation. Note that many existing translators will do the wrong thing with e-mail addresses when wrapped in L<lt>E<gt>, so don't do that.

=head1 SEE ALSO

For additional information that may be more accurate for your specific system, see either L<man(5)> or L<man(7)> depending on your system manual section numbering conventions.

This documentation is maintained as part of the podlators distribution. The current version is always available from its web site at <http://www.eyrie.org/~eagle/software/podlators/>.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, with large portions of this documentation taken from the documentation of the original B<podman> implementation by Larry Wall and Tom Christiansen.

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* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-
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* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/perl-podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/perl-podlators-2.5.1/t/text-perlio.t
* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/perl-podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/perl-podlators-2.5.1/t/parselink.t
* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/perl-podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/perl-podlators-2.5.1/t/basic.t
* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/perl-podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/perl-podlators-2.5.1/t/termcap.t
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* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/perl-podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/perl-podlators-2.5.1/t/text-encoding.t
* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/perl-podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/perl-podlators-2.5.1/t/color.t
ZINPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/pod.t
* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-ZINPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/t/text.t

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# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.
# version.

Found in path(s):
* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-ZINPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/lib/Pod/Text/Overstrike.pm
* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-ZINPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/lib/Pod/Text/Termcap.pm

No license file was found, but licenses were detected in source scan.

---
abstract: 'Convert POD data to various other formats'
author:
  - 'Russ Allbery <rra@stanford.edu>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
distribution_type: module
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.57_05'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: podlators
no_index:
directory:
  - t
  - inc
requires:
  Encode: 0
  File::Spec: 0.8
  Pod::Simple: 3.06
version: 2.5.1

Found in path(s):
No license file was found, but licenses were detected in source scan.

#!perl

# pod2man -- Convert POD data to formatted *roff input.
#
#  Russ Allbery <rra@stanford.edu>
#
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Man ();
use Pod::Usage qw(pod2usage);

use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*/%%;

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin.
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options, trying to retain backward compatibility with pod2man but
# allowing short forms as well. --lax is currently ignored.
my %options;
Getopt::Long::config ('bundling_override');
GetOptions (\%options, 'center|c=s', 'date|d=s', 'errors=s', 'fixed=s',
  'fixedbold=s', 'fixeditalic=s', 'fixedbolditalic=s', 'help|h',
  'lax|l', 'name|n=s', 'nourls', 'official|o', 'quotes|q=s',
  'release|r:s', 'section|s=s', 'stderr', 'verbose|v', 'utf8|u')
  or exit 1;
pod2usage (0) if $options{help};

# Official sets --center, but don't override things explicitly set.
if ($options{official} && !defined $options{center}) {
    $options{center} = 'Perl Programmers Reference Guide';
}

# Verbose is only our flag, not a Pod::Man flag.
my $verbose = $options{verbose};
delete $options{verbose};
# This isn't a valid Pod::Man option and is only accepted for backward
# compatibility.
delete $options{lax};

# If neither stderr nor errors is set, default to errors = die.
if ('!defined $options{stderr} && !defined $options{errors}') {
  $options{errors} = 'die';
}

# Initialize and run the formatter, pulling a pair of input and output off at
# a time. For each file, we check whether the document was completely empty
# and, if so, will remove the created file and exit with a non-zero exit
# status.
my $parser = Pod::Man->new (%options);
my $status = 0;
my @files;
do {
  @files = splice (@ARGV, 0, 2);
  print " $files[1]\n" if $verbose;
  $parser->parse_from_file (@files);
  if ($parser->{CONTENTLESS}) {
    $status = 1;
    warn "$0: unable to format $files[0]\n";
    if (defined ($files[1]) and $files[1] ne '-') {
      unlink $files[1] unless (-s $files[1]);
    }
  }
} while (@ARGV);
exit $status;

__END__

=for stopwords
en em --stderr stderr --utf8 UTF-8 overdo markup MT-LEVEL Allbery Solaris
URL troff troff-specific formatters uppercased Christiansen --nourls

=head1 NAME
pod2man - Convert POD data to formatted *roff input

=head1 SYNOPSIS

pod2man [B<--center>=I<string>] [B<--date>=I<string>] [B<--errors>=I<style>]
  [B<--fixed>=I<font>] [B<--fixedbold>=I<font>] [B<--fixeditalic>=I<font>]
  [B<--fixedbolditalic>=I<font>] [B<--name>=I<name>] [B<--nourls>]
  [B<--official>] [B<--quotes>=I<quotes>] [B<--release>=I<version>]
  [B<--section>=I<manext>] [B<--stderr>] [B<--utf8>] [B<--verbose>]
[I<input> I<output> ...]
pod2man B<--help>

=head1 DESCRIPTION

B<pod2man> is a front-end for Pod::Man, using it to generate *roff input from POD source. The resulting *roff code is suitable for display on a terminal using nroff(1), normally via man(1), or printing using troff(1).

I<input> is the file to read for POD source (the POD can be embedded in code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if given, is the file to which to write the formatted output. If I<output> isn't given, the formatted output is written to C<STDOUT>. Several POD files can be processed in the same B<pod2man> invocation (saving module load and compile times) by providing multiple pairs of I<input> and I<output> files on the command line.

B<--section>, B<--release>, B<--center>, B<--date>, and B<--official> can be used to set the headers and footers to use; if not given, Pod::Man will assume various defaults. See below or L<Pod::Man> for details.

B<pod2man> assumes that your *roff formatters have a fixed-width font named C<CW>. If yours is called something else (like C<CR>), use B<--fixed> to specify it. This generally only matters for troff output for printing. Similarly, you can set the fonts used for bold, italic, and bold italic fixed-width output.

Besides the obvious pod conversions, Pod::Man, and therefore pod2man also takes care of formatting func(), func(n), and simple variable references like $foo or @bar so you don't have to use code escapes for them; complex expressions like C<$fred{'stuff'}> will still need to be escaped, though. It also translates dashes that aren't used as hyphens into en dashes, makes long dashes--like this--into proper em dashes, fixes "paired quotes," and takes care of several other troff-specific tweaks. See L<Pod::Man> for complete information.

=head1 OPTIONS

=over 4

=item B<-c> I<string>, B<--center>=I<string>

Sets the centered page header to I<string>. The default is "User Contributed Perl Documentation", but also see B<--official> below.

=item B<-d> I<string>, B<--date>=I<string>

Set the left-hand footer string to this value. By default, the modification
date of the input file will be used, or the current date if input comes from
C<STDIN>.

=item B<-errors>=I<style>

Set the error handling style.  C<die> says to throw an exception on any
POD formatting error.  C<stderr> says to report errors on standard error,
but not to throw an exception.  C<pod> says to include a POD ERRORS
section in the resulting documentation summarizing the errors.  C<none>
ignores POD errors entirely, as much as possible.

The default is C<die>.

=item B<--fixed>=I<font>

The fixed-width font to use for verbatim text and code.  Defaults to
C<CW>.  Some systems may want C<CR> instead.  Only matters for troff(1)
output.

=item B<--fixedbold>=I<font>

Bold version of the fixed-width font.  Defaults to C<CB>.  Only matters
for troff(1) output.

=item B<--fixeditalic>=I<font>

Italic version of the fixed-width font (actually, something of a misnomer,
since most fixed-width fonts only have an oblique version, not an italic
version).  Defaults to C<CI>.  Only matters for troff(1) output.

=item B<--fixedbolditalic>=I<font>

Bold italic (probably actually oblique) version of the fixed-width font.
Pod::Man doesn't assume you have this, and defaults to C<CB>.  Some
systems (such as Solaris) have this font available as C<CX>.  Only matters
for troff(1) output.

=item B<-h>, B<--help>

Print out usage information.

=item B<-l>, B<--lax>

No longer used.  B<pod2man> used to check its input for validity as a
manual page, but this should now be done by L<podchecker(1)> instead.
Accepted for backward compatibility; this option no longer does anything.

=item B<-n> I<name>, B<--name>=I<name>
Set the name of the manual page to I<name>. Without this option, the manual name is set to the uppercased base name of the file being converted unless the manual section is 3, in which case the path is parsed to see if it is a Perl module path. If it is, a path like C<../lib/Pod/Man.pm> is converted into a name like C<Pod::Man>. This option, if given, overrides any automatic determination of the name.

Note that this option is probably not useful when converting multiple POD files at once. The convention for Unix man pages for commands is for the man page title to be in all-uppercase even if the command isn't.

=item B<--nourls>

Normally, LZ<> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:

L<foo|http://example.com/>

is formatted as:

foo <http://example.com/>

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>. This can produce less cluttered output in cases where the URLs are not particularly important.

=item B<--o>, B<--official>

Set the default header to indicate that this page is part of the standard Perl release, if B<--center> is not also given.

=item B<--q> I<quotes>, B<--quotes>=I<quotes>

Sets the quote marks used to surround CE<lt>> text to I<quotes>. If I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text (but the font is still changed for troff output).

=item B<--r>, B<--release>

Set the centered footer. By default, this is the version of Perl you run.
Note that some system an macro sets assume that the centered footer will be a modification date and will prepend something like "Last modified: "; if this is the case, you may want to set B<--release> to the last modified date and B<--date> to the version number.

=item B<-s>, B<--section>

Set the section for the C<.TH> macro. The standard section numbering convention is to use 1 for user commands, 2 for system calls, 3 for functions, 4 for devices, 5 for file formats, 6 for games, 7 for miscellaneous information, and 8 for administrator commands. There is a lot of variation here, however; some systems (like Solaris) use 4 for file formats, 5 for miscellaneous information, and 7 for devices. Still others use 1m instead of 8, or some mix of both. About the only section numbers that are reliably consistent are 1, 2, and 3.

By default, section 1 will be used unless the file ends in C<.pm>, in which case section 3 will be selected.

=item B<--stderr>

By default, B<pod2man> dies if any errors are detected in the POD input. If B<--stderr> is given and no B<--errors> flag is present, errors are sent to standard error, but B<pod2man> does not abort. This is equivalent to C<--errors=stderr> and is supported for backward compatibility.

=item B<-u>, B<--utf8>

By default, B<pod2man> produces the most conservative possible *roff output to try to ensure that it will work with as many different *roff implementations as possible. Many *roff implementations cannot handle non-ASCII characters, so this means all non-ASCII characters are converted either to a *roff escape sequence that tries to create a properly accented character (at least for troff output) or to C<X>.

This option says to instead output literal UTF-8 characters. If your *roff implementation can handle it, this is the best output format to use and avoids corruption of documents containing non-ASCII characters. However, be warned that *roff source with literal UTF-8 characters is not supported by many implementations and may even result in segfaults and other bad behavior.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an C<encoding> command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See L<perlpod(1)> for more information on the C<encoding> command.
=item B<--v>, B<--verbose>

Print out the name of each output file as it is being generated.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a C<POD ERRORS> section generated with C<--errors=pod>), B<pod2man> will exit with status 0. If any of the documents being processed do not result in an output document, B<pod2man> will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of C<die>, B<pod2man> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<pod2man> fails with errors, see L<Pod::Man> and L<Pod::Simple> for information about what those errors might mean.

=head1 EXAMPLES

    pod2man program > program.1
    pod2man SomeModule.pm /usr/perl/man/man3/SomeModule.3
    pod2man --section=7 note.pod > note.7

If you would like to print out a lot of man page continuously, you probably want to set the C and D registers to set contiguous page numbering and even/odd paging, at least on some versions of man(7).

    troff -man -rC1 -rD1 perl.1 perldata.1 perlsyn.1 ...

To get index entries on C<STDERR>, turn on the F register, as in:

    troff -man -rF1 perl.1

The indexing merely outputs messages via C.<tm> for each major page, section, subsection, item, and any C<XE<lt>E<gt>> directives. See L<Pod::Man> for more details.

=head1 BUGS

Lots of this documentation is duplicated from L<Pod::Man>.

=head1 SEE ALSO

L<Pod::Man>, L<Pod::Simple>, L<man(1)>, L<nroff(1)>, L<perlpod(1)>, L_open source used in data center network manager 11.5(1) 11289
L<podchecker(1)>, L<perlpodstyle(1)>, L<troff(1)>, L<man(7)>  

The man page documenting the an macro set may be L<man(5)> instead of L<man(7)> on your system.

The current version of this script is always available from its web site at L<http://www.eyrie.org/~eagle/software/podlators/>. It is also part of the Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, based very heavily on the original B<pod2man> by Larry Wall and Tom Christiansen.

=head1 COPYRIGHT AND LICENSE


This program is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

#!perl

# pod2text -- Convert POD data to formatted ASCII text.
#
#  Russ Allbery <rra@stanford.edu>
#  
#  This program is free software; you may redistribute it and/or modify it
#  under the same terms as Perl itself.
#
#  The driver script for Pod::Text, Pod::Text::Termcap, and Pod::Text::Color,
#  invoked by perldoc -t among other things.
#

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Text ();
use Pod::Usage qw(pod2usage);
use strict;
# Clean up $0 for error reporting.
$0 =~ s%.*/%%;
# Take an initial pass through our options, looking for one of the form
# -<number>. We turn that into -w <number> for compatibility with the
# original pod2text script.
for (my $i = 0; $i < @ARGV; $i++) {
last if $ARGV[$i] =~ /^--$/;
if ($ARGV[$i] =~ /^-(\d+)$/) {
splice (@ARGV, $i++, 1, '-w', $1);
}
}
# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin (which Pod::Simple
# does correctly).
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;
# Parse our options. Use the same names as Pod::Text for simplicity, and
# default to sentence boundaries turned off for compatibility.
my %options;
$options{sentence} = 0;
Getopt::Long::config ('bundling');
GetOptions (\%options, 'alt|a', 'code', 'color|c', 'errors=s', 'help|h',
'indent|i=i', 'loose|l', 'margin|left-margin|m=i', 'nourls',
'overstrike|o', 'quotes|q=s', 'sentence|s', 'stderr', 'termcap|t',
'utf8|u', 'width|w=i')
or exit 1;
pod2usage (1) if $options{help};
# Figure out what formatter we're going to use. -c overrides -t.
my $formatter = 'Pod::Text';
if ($options{color}) {
$formatter = 'Pod::Text::Color';
eval { require Term::ANSIColor };
if ($@) { die "-c (--color) requires Term::ANSIColor be installed\n" }
require Pod::Text::Color;
} elsif ($options{termcap}) {
$formatter = 'Pod::Text::Termcap';
require Pod::Text::Termcap;
} elsif ($options{overstrike}) {
$formatter = 'Pod::Text::Overstrike';
require Pod::Text::Overstrike;
}
delete @options{'color', 'termcap', 'overstrike'};

Open Source Used In Data Center Network Manager 11.5(1) 11291


# If neither stderr nor errors is set, default to errors = die.
if (!defined $options{stderr} && !defined $options{errors}) {
    $options{errors} = 'die';
} # Initialize and run the formatter.
my $parser = $formatter->new (%options);
my $status = 0;
do {
    my ($input, $output) = splice (@ARGV, 0, 2);
    $parser->parse_from_file ($input, $output);
    if ($parser->{CONTENTLESS}) {
        $status = 1;
        warn "$0: unable to format $input\n";
        if (defined ($output) and $output ne '-') {
            unlink $output unless (-s $output);
        }
    }
} while (@ARGV);
exit $status;

__END__

=for stopwords
-aclostu --alt --stderr Allbery --overstrike overstrike --termcap --utf8
UTF-8 subclasses --nourls

=head1 NAME
pod2text - Convert POD data to formatted ASCII text

=head1 SYNOPSIS


pod2text -h

=head1 DESCRIPTION

pod2text is a front-end for Pod::Text and its subclasses. It uses them
to generate formatted ASCII text from POD source. It can optionally use
either termcap sequences or ANSI color escape sequences to format the text.

I<input> is the file to read for POD source (the POD can be embedded in
code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if
given, is the file to which to write the formatted output. If I<output> isn't given, the formatted output is written to C<STDOUT>. Several POD files can be processed in the same B<pod2text> invocation (saving module load and compile times) by providing multiple pairs of I<input> and I<output> files on the command line.

=head1 OPTIONS

=over 4

=item B<-a>, B<--alt>

Use an alternate output format that, among other things, uses a different heading style and marks C<item> entries with a colon in the left margin.

=item B<--code>

Include any non-POD text from the input file in the output as well. Useful for viewing code documented with POD blocks with the POD rendered and the code left intact.

=item B<-c>, B<--color>

Format the output with ANSI color escape sequences. Using this option requires that Term::ANSIColor be installed on your system.

=item B<-i> I<indent>, B<--indent=>I<indent>

Set the number of spaces to indent regular text, and the default indentation for C<over> blocks. Defaults to 4 spaces if this option isn't given.

=item B<-errors>=I<style>

Set the error handling style. C<die> says to throw an exception on any POD formatting error. C<stderr> says to report errors on standard error, but not to throw an exception. C<pod> says to include a POD ERRORS section in the resulting documentation summarizing the errors. C<none> ignores POD errors entirely, as much as possible.

The default is C<die>.

=item B<-h>, B<--help>

Print out usage information and exit.

=item B<-l>, B<--loose>

Print a blank line after a C<head1> heading. Normally, no blank line is
printed after C<==head1>, although one is still printed after C<==head2>, because this is the expected formatting for manual pages; if you’re formatting arbitrary text documents, using this option is recommended.

=item B<-m> I<width>, B<-left-margin>=I<width>, B<-margin>=I<width>

The width of the left margin in spaces. Defaults to 0. This is the margin for all text, including headings, not the amount by which regular text is indented; for the latter, see B<-i> option.

=item B<-nourls>

Normally, LZ<> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:

L<foo|http://example.com/>

is formatted as:

foo <http://example.com/>

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>. This can produce less cluttered output in cases where the URLs are not particularly important.

=item B<-o>, B<-overstrike>

Format the output with overstrike printing. Bold text is rendered as character, backspace, character. Italics and file names are rendered as underscore, backspace, character. Many pagers, such as B<less>, know how to convert this to bold or underlined text.

=item B<-q> I<quotes>, B<-quotes>=I<quotes>

Sets the quote marks used to surround CE<lt>> text to I<quotes>. If I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text.

=item B<-s>, B<-sentence>

Assume each sentence ends with two spaces and try to preserve that spacing. Without this option, all consecutive whitespace in non-verbatim paragraphs
is compressed into a single space.

=item B<--stderr>

By default, B<pod2text> dies if any errors are detected in the POD input. If B<--stderr> is given and no B<--errors> flag is present, errors are sent to standard error, but B<pod2text> does not abort. This is equivalent to C<--errors=stderr> and is supported for backward compatibility.

=item B<-t>, B<--termcap>

Try to determine the width of the screen and the bold and underline sequences for the terminal from termcap, and use that information in formatting the output. Output will be wrapped at two columns less than the width of your terminal device. Using this option requires that your system have a termcap file somewhere where Term::Cap can find it and requires that your system support termios. With this option, the output of B<pod2text> will contain terminal control sequences for your current terminal type.

=item B<-u>, B<--utf8>

By default, B<pod2text> tries to use the same output encoding as its input encoding (to be backward-compatible with older versions). This option says to instead force the output encoding to UTF-8.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an C<encoding> command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See L<perlpod(1)> for more information on the C<encoding> command.

=item B<-w>, B<--width=>I<width>, B<->I<width>

The column at which to wrap text on the right-hand side. Defaults to 76, unless B<-t> is given, in which case it's two columns less than the width of your terminal device.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a C<POD ERRORS> section generated with C<--errors=pod>), B<pod2text> will exit with status 0. If any of the documents being processed do not result in an output document, B<pod2text> will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of
C<die>, B<pod2text> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<pod2text> fails with errors, see L<Pod::Text> and L<Pod::Simple> for
information about what those errors might mean. Internally, it can also
produce the following diagnostics:

=item -c (--color) requires Term::ANSIColor be installed
(F) B<-c> or B|--color> were given, but Term::ANSIColor could not be
loaded.

=item Unknown option: %s
(F) An unknown command line option was given.

=back

In addition, other L<Getopt::Long> error messages may result from invalid
command-line options.

=head1 ENVIRONMENT

=item COLUMNS
If B<-t> is given, B<pod2text> will take the current width of your screen
from this environment variable, if available. It overrides terminal width
information in TERMCAP.

=item TERMCAP
If B<-t> is given, B<pod2text> will use the contents of this environment
variable if available to determine the correct formatting sequences for your
current terminal device.

=back

=head1 SEE ALSO

L<Pod::Text>, L<Pod::Text::Color>, L<Pod::Text::Overstrike>,
L<Pod::Text::Termcap>, L<Pod::Simple>, L<perlpod(1)>

The current version of this script is always available from its web site at
L<http://www.eyrie.org/~eagle/software/podlators/>. It is also part of the Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>.

=head1 COPYRIGHT AND LICENSE


This program is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1000848966_1646171581.39/0/perl-podlators-2.5.1-3.el7.src.rpm-cosi-expand-archive-Z1NPhHxb/podlators-2.5.1.tar.gz-cosi-expand-archive-kyD8FKMM/podlators-2.5.1/META.yml

1.1218 wildfly-elytron-credential-store

1.11.2.Final

1.1218.1 Available under license:

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$Id: JDOMFactory.java,v 1.9 2007/11/10 05:28:59 jhunter Exp$

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*/

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*/opt/cola/permits/100000692_1646171445.37/0/jdom-1-1-3-sources-jar/org/jdom/FilterIterator.java
No license file was found, but licenses were detected in source scan.

/ *-

$Id: Comment.java,v 1.33 2007/11/10 05:28:58 jhunter Exp$

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$Id: JaxenXPath.java,v 1.20 2007/11/10 05:29:02 jhunter Exp $

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*/

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* /opt/cola/permits/100000692_1646171445.37/0/jdom-1-1-3-sources-jar/org/jdom(xpath/JaxenXPath.java
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$Id: SAXOutputter.java,v 1.40 2007/11/10 05:29:01 jhunter Exp $

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*/opt/cola/permits/1000000692_1646171445.37/0/jdom-1-1-3-sources-jar/org/jdom/adapters/OracleV2DOMAdapter.java
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/*--

$Id: JDOMLocator.java,v 1.4 2007/11/10 05:29:01 jhunter Exp $

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/*

Found in path(s):
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$Id: IllegalNameException.java,v 1.14 2007/11/10 05:28:59 jhunter Exp $

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$Id: Verifier.java,v 1.57 2009/07/23 05:54:23 jhunter Exp $

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$Id: DOMBuilder.java,v 1.60 2007/11/10 05:29:00 jhunter Exp $

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$Id: JDOMParseException.java,v 1.8 2007/11/10 05:29:00 jhunter Exp $

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$Id: OrFilter.java,v 1.5 2007/11/10 05:29:00 jhunter Exp $

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 * addition of manipulators so that the list can be modified or
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 *
 * There are two typical uses of this class:
 *
 * <ol>
 * <li>to take a persistent snapshot of an Attributes object
 * in a {@link org.xml.sax.ContentHandler#startElement startElement} event; or</li>
 * <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * </ol>
 *
 * This class replaces the now-deprecated SAX1 {org.xml.sax.helpers.AttributeListImpl Attributes}
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jar/com/sun/xml/xsom/impl/parser/state/xpath.java
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* /opt/cola/permits/1000468737_1654023071.464293/0/xsom-2-3-0-sources-jar/element.rng
* /opt/cola/permits/1000468737_1654023071.464293/0/xsom-2-3-0-sources-jar/com/sun/xml/xsom/impl/package.html
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* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/objectstore/ObjectStoreIterator.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/coordinator/ActionManager.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/internal/arjuna/abstractrecords/ActivationRecord.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/internal/arjuna/objectstore/FileLockingStore.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/internal/arjuna/thread/ThreadActionData.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/internal/arjuna/TxLogWritePersistenceRecord.java
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* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/coordinator/listener/ReaperMonitor.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/internal/arjuna/abstractrecords/StateManagerFriend.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/coordinator/TxStats.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/objectstore/StateStatus.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/objectstore/StateStatus.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/objectstore/TxLog.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/coordinator/TxControl.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/common/UidHelper.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/ObjectStatus.java
* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/coordinator/actioninfo/ActionInfo.java
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* /opt/cola/permits/1091709953_1654022815.1926842/0/arjuna-5-9-0-final-sources-jar/com/arjuna/ats/arjuna/LogWriteStateManager.java
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1.1237 tornado 4.2.1 5.el7

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* /opt/cola/permits/1029423992_1654022832.0268466/0/freehep-graphicsio-2-3-sources-jar/org/freehep/graphicsio/ppm/PPMEncoder.java
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 * PngEncoder takes a Java Image object and creates a byte string which can be saved as a PNG file.
 * The Image is presumed to use the DirectColorModel.
 *
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/*
 * @author J. David Eisenberg
 * @version 1.4, 31 March 2000
 */

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* /opt/cola/permits/1029423992_1654022832.0268466/0/freehep-graphicsio-2-3-sources-jar/org/freehep/graphicsio/png/PNGEncoder.java
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* /opt/cola/permits/1029423992_1654022832.0268466/0/freehep-graphicsio/ppm/ImageEncoder.java
* /opt/cola/permits/1029423992_1654022832.0268466/0/freehep-graphicsio/gif/ImageEncoder.java
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/**
 * An efficient color quantization algorithm, adapted from the C++
 * implementation quantize.c in <a
 * href="http://www.imagemagick.org/">ImageMagick</a>. The pixels for
 * an image are placed into an oct tree. The oct tree is reduced in
 * size, and the pixels from the original image are reassigned to the
 * nodes in the reduced tree.<p>
 * 
 * Here is the copyright notice from ImageMagick:
 *
 * <pre>
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 */
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Disc Quotas in a UNIX Environment

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In most computing environments, disc space is not infinite. The disc quota system provides a mechanism to control usage of disc space, on an individual basis.
Quotas may be set for each individual user, on any, or all filesystems.

The quota system will warn users when they exceed their allotted limit, but allow some extra space for current work. Repeatedly remaining over quota at logout, will cause a fatal over quota condition eventually.

The quota system is an optional part of -2VMUNIX- that may be included when the system is configured.

Users' view of disc quotas

To most users, disc quotas will either be of no concern, or a fact of life that cannot be avoided. The *quota* command will provide information on any disc quotas that may have been imposed upon a user.

There are two individual possible quotas that may be imposed, usually if one is, both will be. A limit can be set on the amount of space a user can occupy, and there may be a limit on the number of files (inodes) he can own.

`quota` provides information on the quotas that have been set by the system administrators, in each of these areas, and current usage.

There are four numbers for each limit, the current usage, soft limit (quota), hard limit, and number of remaining login warnings. The soft limit is the number of 1K blocks (or files) that the user is expected to remain below. Each time the user's usage goes past this limit, he will be warned. The hard limit cannot be exceeded. If a user's usage reaches this number, further requests for space (or attempts to create a file) will fail with an EDQUOT error, and the first time this occurs, a message will be written to the user's terminal.
Only one message will be output, until space occupied is reduced below the limit, and reaches it again, in order to avoid continual noise from those programs that ignore write errors.

Whenever a user logs in with a usage greater than his soft limit, he will be warned, and his login warning count decremented. When he logs in under quota, the counter is reset to its maximum value (which is a system configuration parameter, that is typically 3).

If the warning count should ever reach zero (caused by three successive logins over quota), the particular limit that has been exceeded will be treated as if the hard limit has been reached, and no more resources will be allocated to the user. The only way to reset this condition is to reduce usage below quota, then log in again.

Surviving when quota limit is reached

In most cases, the only way to recover from over quota conditions, is to abort whatever activity was in progress on the filesystem that has reached its limit, remove sufficient files to bring the limit back below quota, and retry the failed program.

However, if you are in the editor and a write fails because of an over quota situation, that is not a suitable course of action, as it is most likely that initially attempting to write the file will have truncated its previous contents, so should the editor be aborted without correctly writing the file not only will the recent changes be lost, but possibly much, or even all, of the data that previously existed.

There are several possible safe exits for a user caught in this situation. He may use the editor B shell escape command to examine his file space, and remove surplus files. Alternatively, using C shell, he may suspend the editor, remove some files, then resume it. A third possibility, is to write the file to some other filesystem (perhaps to a file on /tmp) where the user's quota has not been exceeded. Then after rectifying the quota situation, the file can be moved back to the filesystem.
Administering the quota system

To set up and establish the disc quota system, there are several steps necessary to be performed by the system administrator.

First, the system must be configured to include the disc quota sub-system. This is done by including the line:

```
options QUOTA
```

in the system configuration file, then running `config(8)` followed by a system configuration.

* See also the document "Building 4.2BSD UNIX Systems with Config".

Second, a decision as to what filesystems need to have quotas applied needs to be made. Usually, only filesystems that house users' home directories, or other user files, will need to be subjected to the quota system, though it may also prove useful to also include `/usr`.

If possible, `/tmp` should usually be free of quotas.

Having decided on which filesystems quotas need to be set upon, the administrator should then allocate the available space amongst the competing needs. How this should be done is (way) beyond the scope of this document.

Then, the `edquota(8)` command can be used to actually set the limits desired upon each user. Where a number of users are to be given the same quotas (a common occurrence) the `-p` switch to `edquota` will allow this to be easily accomplished.

Once the quotas are set, ready to operate, the system must be informed to enforce quotas on the desired filesystems. This is accomplished with the `quotaon(8)` command.

will either enable quotas for a particular filesystem, or
with the \fB\-a\fP switch, will enable quotas for each filesystem indicated in \fB/etc/fstab\fP as using quotas.

See
\fB/etc/fstab\fP|(5)
for details.

Most sites using the quota system, will include the line

\fBetc/quotaon -a\fP

in \fB/etc/rc.local\fP.

Should quotas need to be disabled, the \fBquotaoff\fP(8) command will do that, however, should the filesystem be about to be dismounted, the \fBumount\fP(8) command will disable quotas immediately before the filesystem is unmounted.

This is actually an effect of the \fBumount\fP(2) system call, and it guarantees that the quota system will not be disabled if the umount would fail because the filesystem is not idle.

Periodically (certainly after each reboot, and when quotas are first enabled for a filesystem), the records retained in the quota file should be checked for consistency with the actual number of blocks and files allocated to the user.

The \fBquotacheck\fP(8) command can be used to accomplish this.

It is not necessary to dismount the filesystem, or disable the quota system to run this command, though on active filesystems inaccurate results may occur.

This does no real harm in most cases, another run of \fBquotacheck\fP when the filesystem is idle will certainly correct any inaccuracy.

The super-user may use the \fBquota\fP(1) command to examine the usage and quotas of any user, and the \fBrepquota\fP(8) command may be used to check the usages and limits for all users on a filesystem.
Some implementation detail.

Disc quota usage and information is stored in a file on the filesystem that the quotas are to be applied to. Conventionally, this file is `/etc/quotas` in the root of the filesystem. While this name is not known to the system in any way, several of the user level utilities "know" it, and choosing any other name would not be wise.

The data in the file comprises an array of structures, indexed by uid, one structure for each user on the system (whether the user has a quota on this filesystem or not). If the uid space is sparse, then the file may have holes in it, which would be lost by copying, so it is best to avoid this.

The system is informed of the existence of the quota file by the `setquota(2)` system call. It then reads the quota entries for each user currently active, then for any files open owned by users who are not currently active. Each subsequent open of a file on the filesystem, will be accompanied by a pairing with its quota information. In most cases this information will be retained in core, either because the user who owns the file is running some process, because other files are open owned by the same user, or because some file (perhaps this one) was recently accessed.

In memory, the quota information is kept hashed by user-id and filesystem, and retained in an LRU chain so recently released data can be easily reclaimed. Information about those users whose last process has recently terminated is also retained in this way.

Each time a block is accessed or released, and each time an inode is allocated or freed, the quota system gets told about it, and in the case of allocations, gets the opportunity to object.

Measurements have shown that the quota code uses a very small percentage of the system cpu time consumed in writing a new block to disc.

Acknowledgments

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The current disc quota system is loosely based upon a very early scheme implemented at the University of New South Wales, and Sydney University in the mid 70's. That system implemented a single combined limit for both files and blocks on all filesystems.

A later system was implemented at the University of Melbourne by the author, but was not kept highly accurately, eg: chown's (etc) did not affect quotas, nor did i/o to a file other than one owned by the instigator.

The current system has been running (with only minor modifications) since January 82 at Melbourne. It is actually just a small part of a much broader resource control scheme, which is capable of controlling almost anything that is usually uncontrolled in unix. The rest of this is, as yet, still in a state where it is far too subject to change to be considered for distribution.

For the 4.2BSD release, much work has been done to clean up and sanely incorporate the quota code by Sam Leffler and Kirk McKusick at The University of California at Berkeley.

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* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/pot.po
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* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
  mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotaon.c
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
  mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotaio_v1.c
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
  mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/edquota.c
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
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*/

* QUOTA An implementation of the diskquota system for the LINUX operating
  * system. QUOTA is implemented using the BSD systemcall interface
  * as the means of communication with the user level. Should work for
  * all filesystems because of integration into the VFS layer of the
  * operating system. This is based on the Melbourne quota system wich
  * uses both user and group quota files.
  *
  * Program to mail to users that they are over there quota.
  *
* Author: Marco van Wieringen <mvw@planets.elm.net>
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* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
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* operating system. This is based on the Melbourne quota system which
* uses both user and group quota files.
* *
* Rquota service handlers.
* *
* Author: Marco van Wieringen <mvw@planets.elm.net>
* changes for new utilities by Jan Kara <jack@suse.cz>
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/*
* A daemon to read quota warning messages from the kernel netlink socket
* and either pipe them to the system DBUS or write them to user's console
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* operating system. QUOTA is implemented using the BSD systemcall
* interface as the means of communication with the user level.
* Should work for all filesystems because of integration into the
* VFS layer of the operating system.
* This is based on the Melbourne quota system which uses both user and
* group quota files.
* This part does the rpc-communication with the rquotad.
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# Optionas to pass to rpc.rquotad daemon. See rpc.rquotad(8) manual page for more details.
# -I, --autofs Ignore autofs mount points
# -p port, --port port Listen on alternative port
# -s, --no-setquota Don't allow setting quotas with RPC (default)
# -S, --setquota Allow setting quotas with RPC
# -x path, --xtab path Use alternative NFSD export table
RPCRQUOTADOPTS=""

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 *          This is based on the Melbourne quota system wich uses both user and
 *          group quota files.
 *          This part does the lookup of the info.
 *          
 *          Author: Marco van Wieringen <mvw@planets.elm.net>
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* /opt/cola/permits/1010185515_1654023061.7531073/0/xom-1-2-5-sources-jar/nu/xom/Namespace.java
* /opt/cola/permits/1010185515_1654023061.7531073/0/xom-1-2-5-sources-jar/nu/xom/XPathTypeException.java
* /opt/cola/permits/1010185515_1654023061.7531073/0/xom-1-2-5-sources-jar/nu/xom/XPathException.java
* /opt/cola/permits/1010185515_1654023061.7531073/0/xom-1-2-5-sources-jar/nu/xom/JaxenNavigator.java
* /opt/cola/permits/1010185515_1654023061.7531073/0/xom-1-2-5-sources-jar/nu/xom/canonical/CanonicalizationException.java
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* /opt/cola/permits/1010185515_1654023061.7531073/0/xom-1-2-5-sources-jar/nu/xom/Latin3Writer.java
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* /opt/cola/permits/1010185515_1654023061.7531073/0/xom-1-2-5-sources-jar-zip/xom-1-2-5-sources-jar/nu/xom/xinclude/BadEncodingAttributeException.java
* /opt/cola/permits/1010185515_1654023061.7531073/0/xom-1-2-5-sources-jar-zip/xom-1-2-5-sources-jar/nu/xom/xslt/XOMInputSource.java

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<head>
<link rel="stylesheet" type="text/css" href="styles.css" />
<title>uthash: a hash table for C structures</title>
</head>
<body>

<div id="banner">
<img src="banner.png" alt="uthash: a hash table for C structures" />
</div> <!-- banner -->

<div id="topnav">
<a href="http://troydhanson.github.com/uthash/">uthash home</a> &gt; BSD license
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<hr />

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analysis/common/src/resources/org/apache/lucene/analysis/snowball
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The full snowball package is available from
http://snowball.tartarus.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (http://morfologik.blogspot.com/).

Morfologik uses data from Polish ispell/myspell dictionary (http://www.sjp.pl/slawnik/en/) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

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Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from
http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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Nori Korean Morphological Analyzer - Apache Lucene Integration
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mecab-ko-dic-2.0.3-20170922

which can be obtained from

https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

1.1265 centos-release-virt-common 1-
1.el7.centos

1.1265.1 Available under license:
No license file was found, but licenses were detected in source scan.

Summary: Common release file to establish shared metadata for CentOS Virt SIG
Name: centos-release-virt-common
Epoch: 0
Version: 1
Release: 1%{?dist}
License: GPL
Group: System Environment/Base
Source0: RPM-GPG-KEY-CentOS-SIG-Virtualization
URL: http://wiki.centos.org/SpecialInterestGroup/Virtualization
BuildArch: noarch

Provides: centos-release-virt-common
Requires: centos-release

BuildRoot: %{_tmppath}/%{name}-root

%description
Common files needed by other centos-release components in the Virtualization SIG

%prep
%setup -q -n %{name} -T -c

%install
rm -rf $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT/etc/pki/rpm-gpg/
install -m 644 %SOURCE0 $RPM_BUILD_ROOT/etc/pki/rpm-gpg/

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root)
/etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-SIG-Virtualization

%changelog
* Thu Sep 3 2015 Karanbir Singh <kbsingh@centos.org> - 1-1
  - Basic setup with the gpg key

Found in path(s):
* /opt/cola/permits/1004217618_1646171704.27/0/centos-release-virt-common-1-1.el7.centos.src.rpm-cosi-expand-archive-4zqHotUb/centos-release-virt-common.spec

1.1266 lksctp-tools 1.0.17-2.el7
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1.1269 argparse 0.7.0

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Metadata-Version: 1.0
Name: argparse
Version: 0.7.0
Summary: An optparse-inspired command-line parsing library
Home-page: http://argparse.python-hosting.com/
Author: Steven Bethard
Author-email: steven.bethard@gmail.com
License: BSD
Description: Argparse takes the best of the optparse command-line parsing module
and brings it new life. Argparse adds positional as well as optional arguments, the ability to create parsers for sub-commands, more informative help and usage messages, and much more. At the same time, it retains the ease and flexibility of use that made optparse so popular.

Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
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* /opt/cola/permits/1110676525_1654022974.3949199/0/wildfly-cli-6-0-2-final-sources-1-jar/org/jboss/as/cli/impl/aesh/cmd/security/ssl/command_resources.properties
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* /opt/cola/permits/1110676525_1654022974.3949199/0/wildfly-cli-6-0-2-final-sources-1-jar/org/jboss/as/cli/impl/aesh/cmd/security/command_resources.properties

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* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/dtd/ContentSpec.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/dtd/DFAState.java
* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/dtd/DFAValidator.java

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* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sr/InputElementStack.java
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* /opt/cola/permits/1150985846_1617740758.56/0/woodstox-core-5-0-3-sources-3-jar/com/ctc/wstx/sr/TypedStreamReader.java
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jar/com/ctc/wstx/sw/BaseNsStreamWriter.java
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1.1278 ipvsadm 1.27-8.el7

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ipvsadm - Version 1.14 - 11th January 2001

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ipvsadm is a utility to administer the IP virtual server services offered by the Linux kernel with IP virtual server support.

This version of ipvsadm requires IPVS module v0.0.5 for kernel 2.4 or later. Check out the Linux Virtual Server Project home page on the World Wide Web:
http://www.LinuxVirtualServer.org/
or
http://www.Linux-VS.org/
for the most recent information and original sources about ipvsadm.

To make, make sure your Linux kernel is already patched with IPVS and "make menuconfig" or "make xconfig" to setup the right compiling options, see the README of the virtual server patch for detail, then simply type make
in the source directory.

Install to your liking. We suggest the following pathnames:
/sbin/ipvsadm
/usr/man/man8/ipvsadm.8
This will be done automatically when calling
make install
in the source directory.

Wensong Zhang <wensong@linuxvirtualserver.org>

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1.1281 util-linux 2.23.2 63.el7

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* */

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image
f1c9645d8c4e1f8d8dc1322685f26eb bsd.img
Create new DOS partition table
57c721e38d12d6c2d055067c18f2c9f bsd.img

---layout----------
  __ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

    Device  Boot  Start  End     Blocks   Id  System
----------  ------  ------  ------  ----------  ---  ----
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
  __ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

    Device  Boot  Start  End     Blocks   Id  System
----------  ------  ------  ------  ----------  ---  ----
__ts_dev__  2048  4095   1024    83 Linux

Create 2st primary partition
1beb87248e0566e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8f851a88a045db233418dd73f bsd.img
---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end   size     fstype [fsise bsize cpg]
c:  4096  20479  16384   unused  0     0

d:   0    16064  16065   unused  0     0

BSD disklabel command (m for help):
Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end   size     fstype [fsise bsize cpg]
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660           10  AdvFS
4  System V

BSD disklabel command (m for help):

1.1282 cifs-utils 6.2-10.el7

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 */

Found in path(s):
 * /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingTimeout.java
 * /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/SegmentedByteString.java
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*/

Found in path(s):
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Base64.java

1.1297 snake-yaml 1.23

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Found in path(s):
* /opt/cola/permits/1000770200_1646171503.5/0/snakeyaml-1-23-jar/META-INF/maven/org.yaml/snakeyaml/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bnd-LastModified: 1535387016033
Build-Jdk: 1.8.0_181
Built-By: somov
Bundle-Description: YAML 1.1 parser and emitter for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: SnakeYAML
Bundle-SymbolicName: org.yaml.snakeyaml
Bundle-Version: 1.23.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.yaml.snakeyaml;version="1.23",org.yaml.snakeyaml.composer;version="1.23",org.yaml.snakeyaml.constructor;version="1.23",org.yaml.snakeyaml.emitter;version="1.23",org.yaml.snakeyaml.error;version="1.23",org.yaml.snakeyaml.events;version="1.23",org.yaml.snakeyaml
1.1298 qrencode 3.4.1-3.el7

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The of the start-stop-daemon

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* in C (faster - it is executed many times during system startup).
* 
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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* /opt/cola/permits/1110675431_1654023011.4238825/0/wildfly-naming-14-0-1-final-sources-1.jar/org/jboss/as/naming/subsystem/RemoteNamingAdd.java

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* /opt/cola/permits/1110675431_1654023011.4238825/0/wildfly-naming-14-0-1-final-sources-1-
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  jar/org/jboss/as/naming/ManagedReferenceInjector.java
* /opt/cola/permits/1110675431_1654023011.4238825/0/wildfly-naming-14-0-1-final-sources-1-
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* /opt/cola/permits/1110675431_1654023011.4238825/0/wildfly-naming-14-0-1-final-sources-1-
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  jar/org/jboss/as/naming/deployment/ContextNames.java
* /opt/cola/permits/1110675431_1654023011.4238825/0/wildfly-naming-14-0-1-final-sources-1-
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* /opt/cola/permits/1110675431_1654023011.4238825/0/wildfly-naming-14-0-1-final-sources-1-
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* /opt/cola/permits/1110675431_1654023011.4238825/0/wildfly-naming-14-0-1-final-sources-1-
  jar/org/jboss/as/naming/InMemoryNamingStore.java
* /opt/cola/permits/1110675431_1654023011.4238825/0/wildfly-naming-14-0-1-final-sources-1-
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  jar/org/jboss/metadata/parser/Util/NoopXMLResolver.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/javaee/jboss/jndiRefsMetaData.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/merge/javaee/jboss/IgnoreDependencyMetaDataMerger.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/parser/ee/ConnectionFactoryMetaDataParser.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/merge/javaee/jboss/JndiRefsMetaDataMerger.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/javaee/spec/AnnotatedEJBReferenceMetaData.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/merge/javaee/spec/AnnotatedEJBReferenceMetaData.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/javaee/support/IdMetaDataImplWithDescriptionsWithOverride.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/parser/ee/ServiceReferenceHandlerChainsMetaDataParser.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/merge/javaee/spec/JMSDestinationsMetaDataMerger.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/javaee/spec/MessageDestinationsMetaDataMerger.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/merge/javaee/support/NamedModuleImplMerger.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
  jar/org/jboss/metadata/parser/ee/AddressingParser.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
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* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
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* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/javaee/spec/MailSessionMetaData.java
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* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/parser/ee/Attribute.java
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* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/merge/javaee/support/MessageDestinationUsageType.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/parser/ee/Attribute.java
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* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/jboss/metadata/javaee/spec/JMSConnectionFactoriesMetaData.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/jboss/metadata/javaee/support/IdMetaDataImplWithDescriptions.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/jboss/metadata/javaee/support/NonNullLinkedHashSet.java
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/jboss/metadata/javaee/spec/MessageDestinationMetaData.java
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* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/jboss/metadata/javaee/spec/ResourceSharingScopeType.java
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* /opt/cola/permits/110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/javaee/spec/IsolationLevelType.java
* /opt/cola/permits/110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/javaee/spec/EmptyMetaData.java
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* /opt/cola/permits/110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/parser/jbossee/Attribute.java
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* /opt/cola/permits/110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/javaee/support/AbstractMappedMetaData.java
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* /opt/cola/permits/110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/javaee/spec/ServiceReferencesMetaData.java
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* /opt/cola/permits/110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/javaee/jboss/AnnotationMetaData.java
* /opt/cola/permits/110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1.jar/org/jboss/metadata/javaee/support/WithDescriptions.java
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* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
jar/schema/javaee_web_services_1_3.xsd
* /opt/cola/permits/1110675444_1654022894.3714435/0/jboss-metadata-common-11-0-0-final-sources-1-
jar/schema/javaee_web_services_client_1_3.xsd
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jar/schema/javaee_6.xsd

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.1320 rabbitmq-java-client 3.1.0

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1.1321 wildfly-elytron-http-spnego

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  jar/org/wildfly/security/http/spnego/WildFlyElytronHttpSpnegoProvider.java
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1.1322 doxia-core 1.0

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1.1323 spring-boot 2.1.4.RELEASE

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* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/diagnostics/analyzer/NoSuchMethodFailureAnalyzer.java

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* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/tomcat/DisableReferenceClearingContextCustomizer.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/undertow/SslBuilderCustomizer.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/netty/SslServerCustomizer.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/diagnostics/analyzer/NoSuchMethodFailureAnalyzer.java

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* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/context/properties/bind/handler/NoUnboundElementsBindHandler.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/context/properties/bind/CollectionBinder.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/context/properties/source/InvalidConfigurationPropertyValueException.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/tomcat/TomcatServletWebServerFactory.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/jetty/SslServerCustomizer.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/tomcat/SslConnectorCustomizer.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/tomcat/CompressionConnectorCustomizer.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/tomcat/CompressionListener.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/context/config/ConfigFileApplicationListener.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/convert/DelimitedStringToArrayConverter.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/logging/log4j2/Log4J2LoggingSystem.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/convert/ArrayToDelimitedStringConverter.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/logging/log4j2/ExtendedWhitespaceThrowablePatternConverter.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/tomcat/TomcatServletWebServerFactory.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/jetty/ServerCustomizer.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/jetty/ServerConnectorCustomizer.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/embedded/jetty/ServerListener.java

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* /opt/cola/permits/110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/admin/package-info.java
* /opt/cola/permits/110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/context/properties/bind/UnboundConfigurationPropertiesException.java
* /opt/cola/permits/110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/logging/LoggerConfigurationComparator.java
* /opt/cola/permits/110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/ClearCachesApplicationListener.java
* /opt/cola/permits/110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/context/annotation/DeterminableImports.java
* /opt/cola/permits/110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/context/properties/NestedConfigurationProperty.java
* /opt/cola/permits/110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2-jar/org/springframework/boot/web/servlet/support/ServletContextApplicationContextInitializer.java
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* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2.jar/org/springframework/boot/CommandLineRunner.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2.jar/org/springframework/boot/diagnostics/package-info.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2.jar/org/springframework/boot/logging/logback/LogbackConfigurator.java
* /opt/cola/permits/1110675122_1606843835.27/0/spring-boot-2-1-4-release-sources-2.jar/org/springframework/boot/web/embedded/jetty/JasperInitializer.java

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*/
/**
* A [@link WebApplicationContext] that can be used to bootstrap itself from a contained
* [@link ServletWebServerFactory] bean.
*/
This context will create, initialize and run an `WebServer` by searching for a single `ServletWebServerFactory` bean within the `ApplicationContext` itself. The `ServletWebServerFactory` is free to use standard Spring concepts (such as dependency injection, lifecycle callbacks and property placeholder variables).

In addition, any `Servlet` or `Filter` beans defined in the context will be automatically registered with the web server. In the case of a single Servlet bean, the `/'` mapping will be used. If multiple Servlet beans are found then the lowercase bean name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').

For more advanced configuration, the context can instead define beans that implement the `ServletContextInitializer` interface (most often `ServletRegistrationBean` and/or `FilterRegistrationBean`)s. To prevent double registration, the use of `ServletContextInitializer` beans will disable automatic Servlet and Filter bean registration.

Although this context can be used directly, most developers should consider using the `AnnotationConfigServletWebServerApplicationContext` or `XmlServletWebServerApplicationContext` variants.

@see AnnotationConfigServletWebServerApplicationContext
@see XmlServletWebServerApplicationContext
@see ServletWebServerFactory

1.1324 maven-plugin-descriptor 2.0
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* /opt/cola/permits/1001160460_1606843910.98/0/maven-plugin-descriptor-2-0-sources-1.jar/org/apache/maven/plugin/descriptor/Requirement.java
* /opt/cola/permits/1001160460_1606843910.98/0/maven-plugin-descriptor-2-0-sources-1.jar/org/apache/maven/plugin/descriptor/DuplicateParameterException.java
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* /opt/cola/permits/1001160460_1606843910.98/0/maven-plugin-descriptor-2-0-sources-1.jar/org/apache/maven/plugin/descriptor/PluginDescriptor.java
* /opt/cola/permits/1001160460_1606843910.98/0/maven-plugin-descriptor-2-0-sources-1.jar/org/apache/maven/plugin/descriptor/MojoDescriptor.java
* /opt/cola/permits/1001160460_1606843910.98/0/maven-plugin-descriptor-2-0-sources-1.jar/org/apache/maven/plugin/descriptor/Parameter.java

1.1325 spring-jdbc 5.2.2.RELEASE
1.1325.1 Available under license:
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* /opt/cola/permits/1110676867_1654023009.7646334/0/wildfly-domain-management-6-0-2-final-sources-1.jar/org/jboss/as/domain/management/security/adduser/PromptNewUserState.java
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  * /opt/cola/permits/1110676867_1654023009.7646334/0/wildfly-domain-management-6-0-2-final-sources-1.jar/org/jboss/as/domain/management/security/adduser/PromptPasswordState.java

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public DomainManagementLogger_$logger(final Logger log) {

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1.1330 maven-invoker 2.0.9

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Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

Sure. The canonical versions are available on ftp.armory.com; you might
want to pick up the latest versions before modifying them.

John

On May 9,  1:36pm, Chet Ramey wrote:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May  9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

--
``The lyf so short, the craft so long to lerne.''' - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

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@ Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP 
(8.6.12+cwrw/1CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition).

-------

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* /opt/cola/permits/1110676305_1606843891.7/0/jboss-batch-api-1-0-spec-1-0-1-final-sources-2-jar/javax/batch/operations/BatchRuntimeException.java

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* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sw/BaseNsStreamWriter.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-jar/com/ctc/wstx/sw/SimpleNsStreamWriter.java
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* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/sax/WstxSAXParser.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/sax/WstxSAXParserFactory.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/sax/SAXProperty.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/sax/SAXFeature.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/sax/WrappedSaxException.java

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  jar/com/ctc/wstx/dtd/DTDValidatorBase.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDValidatorBase.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDValidatorBase.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDValidatorBase.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDValidatorBase.java
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* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/msv/GenericMsvValidator.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDSchemaFactory.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/stax/WstxOutputFactory.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/msv/BaseSchemaFactory.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDAttribute.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDElement.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DefaultAttrValue.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDId.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/sw/NonNsStreamWriter.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/util/SymbolTable.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/stax/WstxInputFactory.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDSchemaFactory.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDElement.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDAttribute.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
  jar/com/ctc/wstx/dtd/DTDId.java
jar/com/ctc/wstx/sr/ValidatingStreamReader.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/msv/W3CSchema.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/msv/W3CSchemaFactory.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/msv/AttributeProxy.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/evt/WstxEventReader.java
* /opt/cola/permits/1001157969_1646171599.34/0/woodstox-core-asl-4-1-4-sources-
jar/com/ctc/wstx/util/ElementIdMap.java

1.1338 atk 2.28.1 2.el7

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1.1340 taglibs-standard-compat 1.2.6-RC1

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* /opt/cola/permits/110676414_1654022971.8253255/0/wildfly-batch-jberet-14-0-1-final-sources-1-jar/org/wildfly/extension/batch/jberet/deployment/BatchDeploymentDescriptorParser_1_0.java
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jar/org/wildfly/extension/batch/jberet/LocalDescriptions.properties

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* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/about.html

Found in path(s):
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* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/HttpVersion.java
* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/HttpGenerator.java
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* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/PathMap.java
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* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/DateParser.java
* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/Http1FieldPreEncoder.java
* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/package-info.java
* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/BadMessageException.java
* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/HttpCompliance.java
* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/pathmap/PathSpec.java
* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/HttpCookie.java
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* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/pathmap/RegexPathSpec.java
* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/Header.java
* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/Tokens.java
* /opt/cola/permits/1001068494_1646171626.81/0/jetty-http-9-3-9-v20160517-sources-jar/org/eclipse/jetty/http/Fields.java
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NAME

Carp - alternative warn and die for modules

DESCRIPTION

The Carp routines are useful in your own modules because they act like
die() or warn(), but with a message which is more likely to be useful
to a user of your module. In the case of cluck, confess, and longmess
that context is a summary of every call in the call-stack. For a shorter
message you can use carp or croak which report the error as being from
where your module was called. There is no guarantee that that is where
the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing
some global variables in the Carp namespace.

INSTALLATION

perl Makefile.PL
make
make test
make install

AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution.
Since then it has been modified by several of the perl 5 porters.
Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent
distribution.

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=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

# warn user (from perspective of caller)
carp "string trimmed to 80 chars";

# die of errors (from perspective of caller)
croak "We're outta here!";

# die of errors with stack backtrace
confess "not implemented";

# cluck not exported by default
use Carp qw(cluck);
cluck "This is how we got here!";

=head1 DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use Carp<carp> or Carp<croak> which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace. See the section on CarpGLOBAL VARIABLES> below.

Here is a more complete description of how Carp<carp> and Carp<croak> work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:
Any call from a package to itself is safe.

Packages claim that there won’t be errors on calls to or from packages explicitly marked as safe by inclusion in C<@CARP_NOT>, or (if that array is empty) C<@ISA>. The ability to override what @ISA says is new in 5.8.

The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override C<@ISA> with C<@CARP_NOT>, then this trust relationship is identical to, "inherits from".

Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)

Any call to Perl’s warning system (eg Carp itself) is safe. (This rule is what keeps it from reporting the error at the point where you call C<carp> or C<croak>.)

C<$Carp::CarpLevel> can be set to skip a fixed number of additional call levels. Using this is not recommended because it is very difficult to get it to behave correctly.

As a debugging aid, you can force Carp to treat a croak as a confess and a carp as a cluck across I<all> modules. In other words, force a detailed stack trace to be given. This can be very helpful when trying to understand why, or from where, a warning or error is being generated.
This feature is enabled by 'importing' the non-existent symbol 'verbose'. You would typically enable it by saying

```
perl -MCarp=verbose script.pl
```

or by including the string `C<-MCarp=verbose>` in the PERL5OPT environment variable.

Alternately, you can set the global variable `$Carp::Verbose` to true. See the `<GLOBAL VARIABLES>` section below.

=begin
=head1 GLOBAL VARIABLES

=begin
=head2 $Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of `C<0>` to show all text.

Defaults to `C<0>`.

=begin
=head2 $Carp::MaxArgLen

This variable determines how many characters of each argument to a function to print. Use a value of `C<0>` to show the full length of the argument.

Defaults to `C<64>`.

=begin
=head2 $Carp::MaxArgNums

This variable determines how many arguments to each function to show. Use a value of `C<0>` to show all arguments to a function call.

Defaults to `C<8>`.

=begin
=head2 $Carp::Verbose

This variable makes `C<carp>` and `C<croak>` generate stack backtraces just like `C<cluck>` and `C<confess>`. This is how `use Carp 'verbose'` is implemented internally.

Defaults to `C<0>`.

=begin
=head2 @CARP_NOT

This variable, `I<in your package>`, says which packages are `I<not>` to be considered as the location of an error. The `C<carp()>` and `C<cluck()>` functions will skip over callers when reporting where an error occurred.
NB: This variable must be in the package's symbol table, thus:

```perl
# These work
our @CARP_NOT; # file scope
use vars qw(@CARP_NOT); # package scope
@My::Package::CARP_NOT = ... ; # explicit package variable

# These don't work
sub xyz { ... @CARP_NOT = ... } # w/o declarations above
my @CARP_NOT; # even at top-level
```

Example of use:

```perl
class My::Carping::Package;
use Carp;
our @CARP_NOT;
sub bar { ... or _error('Wrong input') }
sub _error {
    # temporary control of where'ness, __PACKAGE__ is implicit
    local @CARP_NOT = qw(My::Friendly::Caller);
    carp(@_)
}
```

This would make `C<Carp>` report the error as coming from a caller not in `C<My::Carping::Package>`, nor from `C<My::Friendly::Caller>`.

Also read the L</DESCRIPTION> section above, about how `C<Carp>` decides where the error is reported from.

Use `C<@CARP_NOT>`, instead of `C<$Carp::CarpLevel>`,

Overrides `C<Carp>`'s use of `C<@ISA>`.

=head2 %Carp::Internal

This says what packages are internal to Perl. `C<Carp>` will never report an error as being from a line in a package that is internal to Perl. For example:

```perl
%Carp::Internal{ (__PACKAGE__) }++; # time passes...
sub foo { ... or confess("whatever") }:
```

would give a full stack backtrace starting from the first caller outside of `__PACKAGE__`. (Unless that package was also internal to Perl.)
This says which packages are internal to Perl's warning system. For generating a full stack backtrace this is the same as being internal to Perl, the stack backtrace will not start inside packages that are listed in C<%Carp::CarpInternal>. But it is slightly different for the summary message generated by C<carp> or C<croak>. There errors will not be reported on any lines that are calling packages in C<%Carp::CarpInternal>.

For example C<Carp> itself is listed in C<%Carp::CarpInternal>. Therefore the full stack backtrace from C<confess> will not start inside of C<Carp>, and the short message from calling C<croak> is not placed on the line where C<croak> was called.

This variable determines how many additional call frames are to be skipped that would not otherwise be when reporting where an error occurred on a call to one of C<Carp>’s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that C<Carp> goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid C<$Carp::CarpLevel>. Instead use C<@CARP_NOT>, C<%Carp::Internal> and C<%Carp::CarpInternal>.

Defaults to C<0>.

The Carp routines don't handle exception objects currently. If called with a first argument that is a reference, they simply call die() or warn(), as appropriate.

The Carp module first appeared in Larry Wall's perl 5.000 distribution.
Since then it has been modified by several of the perl 5 porters.
Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent
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* /opt/cola/permits/1000849000_1646171590.41/0/perl-Carp-1.26-244.el7.src.rpm-cosi-expand-archive-
RCOFgpaK/Carp-1.26.tar.gz-cosi-expand-archive-8S7LqiRv/Carp-1.26/lib/Carp.pm
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---
abstract: 'alternative warn and die for modules'
author:
  - unknown
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: perl
metaSpec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Carp	noIndex:
directory:
  - t
  - inc
requires:
  Exporter: 0
  IPC::Open3: 1.0103
  Test::More: 0
  strict: 0
  warnings: 0
  version: 1.26

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  jar/org/jboss/as/management/client/content/ContentStorageException.java
* /opt/cola/permits/1110676189_1654023040.0316749/0/wildfly-management-client-content-6-0-2-final-sources-1-
  jar/org/jboss/as/management/client/content/ManagedDMRContentWriteAttributeHandler.java
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  jar/org/jboss/as/management/client/content/ManagedDMRContentAddHandler.java
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=head1 NAME

File::Path - Create or remove directory trees

=head1 VERSION

This document describes version 2.09 of File::Path, released 2013-01-17.

=head1 SYNOPSIS

use File::Path qw(make_path remove_tree);

make_path('foo/bar/baz', '/zug/zwang');
make_path('foo/bar/baz', '/zug/zwang', {
    verbose => 1,
    mode => 0711,
});

remove_tree('foo/bar/baz', '/zug/zwang');
remove_tree('foo/bar/baz', '/zug/zwang', {
    verbose => 1,
    error  => \my $err_list,
});

# legacy (interface promoted before v2.00)
mkpath('/foo/bar/baz');
mkpath('/foo/bar/baz', 1, 0711);
mkpath(['/foo/bar/baz', 'blurfl/quux'], 1, 0711);
rmtree('foo/bar/baz', 1, 1);
rmtree(['foo/bar/baz', 'blurfl/quux'], 1, 1);

# legacy (interface promoted before v2.06)
mkpath('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
rmtree('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
DESCRIPTION

This module provide a convenient way to create directories of arbitrary depth and to delete an entire directory subtree from the filesystem.

The following functions are provided:

- make_path( $dir1, $dir2, .... )
- make_path( $dir1, $dir2, ...., \%opts )

The `make_path` function creates the given directories if they don't exists before, much like the Unix command `mkdir -p`.

The function accepts a list of directories to be created. Its behaviour may be tuned by an optional hashref appearing as the last parameter on the call.

The function returns the list of directories actually created during the call; in scalar context the number of directories created.

The following keys are recognised in the option hash:

- mode => $num

  The numeric permissions mode to apply to each created directory (defaults to 0777), to be modified by the current `umask`. If the directory already exists (and thus does not need to be created), the permissions will not be modified.

  `mask` is recognised as an alias for this parameter.

- verbose => $bool

  If present, will cause `make_path` to print the name of each directory as it is created. By default nothing is printed.

- error => \$err

  If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L</"ERROR HANDLING"> section for more information.
If this parameter is not used, certain error conditions may raise
a fatal error that will cause the program will halt, unless trapped
in an \texttt{eval} block.

\begin{itemize}
  \item \texttt{owner} => \$owner
  \item \texttt{user} => \$owner
  \item \texttt{uid} => \$owner
\end{itemize}

If present, will cause any created directory to be owned by \texttt{$owner$}.
If the value is numeric, it will be interpreted as a uid, otherwise
as username is assumed. An error will be issued if the username cannot be
mapped to a uid, or the uid does not exist, or the process lacks the
privileges to change ownership.

Ownership of directories that already exist will not be changed.

\texttt{C	extless user	extgreater} and \texttt{C	extless uid	extgreater} are aliases of \texttt{C	extless owner	extgreater}.

\begin{itemize}
  \item \texttt{group} => \$group
\end{itemize}

If present, will cause any created directory to be owned by the group \texttt{$group$}.
If the value is numeric, it will be interpreted as a gid, otherwise
as group name is assumed. An error will be issued if the group name cannot be
mapped to a gid, or the gid does not exist, or the process lacks the
privileges to change group ownership.

Group ownership of directories that already exist will not be changed.

\begin{verbatim}
  make_path '/var/tmp/webcache', {owner=>'nobody', group=>'nogroup'};
\end{verbatim}

=back

\begin{itemize}
  \item \texttt{mkpath( $dir )}
  \item \texttt{mkpath( $dir, $verbose, $mode )}
  \item \texttt{mkpath( [ $dir1, $dir2, ... ], $verbose, $mode )}
  \item \texttt{mkpath( $dir1, $dir2, ..., \%opt )}
\end{itemize}

The \texttt{mkpath()} function provide the legacy interface of \texttt{make_path()} with
a different interpretation of the arguments passed. The behaviour and
return value of the function is otherwise identical to \texttt{make_path()}.
The `remove_tree` function deletes the given directories and any files and subdirectories they might contain, much like the Unix command `rm -r` or `del /s` on Windows.

The function accepts a list of directories to be removed. Its behaviour may be tuned by an optional hashref appearing as the last parameter on the call.

The function returns the number of files successfully deleted.

The following keys are recognised in the option hash:

- `verbose => $bool`
  - If present, will cause `remove_tree` to print the name of each file as it is unlinked. By default nothing is printed.

- `safe => $bool`
  - When set to a true value, will cause `remove_tree` to skip the files for which the process lacks the required privileges needed to delete files, such as delete privileges on VMS. In other words, the code will make no attempt to alter file permissions. Thus, if the process is interrupted, no filesystem object will be left in a more permissive mode.

- `keep_root => $bool`
  - When set to a true value, will cause all files and subdirectories to be removed, except the initially specified directories. This comes in handy when cleaning out an application's scratch directory.

- `result => \$res`
  - If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store all files and directories unlinked during the call. If nothing is unlinked, the array will be empty.
This is a useful alternative to the C<verbose> key.

=item error => \$err

If present, it should be a reference to a scalar. This scalar will be made to reference an array, which will be used to store any errors that are encountered. See the L</"ERROR HANDLING"> section for more information.

Removing things is a much more dangerous proposition than creating things. As such, there are certain conditions that C<remove_tree> may encounter that are so dangerous that the only sane action left is to kill the program.

Use C<error> to trap all that is reasonable (problems with permissions and the like), and let it die if things get out of hand. This is the safest course of action.

=back

=item rmmtree( $dir )

=item rmmtree( $dir, $verbose, $safe )

=item rmmtree( [ $dir1, $dir2,...], $verbose, $safe )

=item rmmtree( $dir1, $dir2,..., %opt )

The rmmtree() function provides the legacy interface of remove_tree() with a different interpretation of the arguments passed. The behaviour and return value of the function is otherwise identical to remove_tree().

=back

=head2 ERROR HANDLING

=over 4

=item B<NOTE:>

The following error handling mechanism is considered experimental and is subject to change pending feedback from users.

=back
If C<make_path> or C<remove_tree> encounter an error, a diagnostic message will be printed to C<STDERR> via C<carp> (for non-fatal errors), or via C<croak> (for fatal errors).

If this behaviour is not desirable, the C<error> attribute may be used to hold a reference to a variable, which will be used to store the diagnostics. The variable is made a reference to an array of hash references. Each hash contain a single key/value pair where the key is the name of the file, and the value is the error message (including the contents of C<$!> when appropriate). If a general error is encountered the diagnostic key will be empty.

An example usage looks like:

```perl
remove_tree( 'foo/bar', 'bar/rat', {error => \my $err} );
if (@$err) {
    for my $diag (@$err) {
        my ($file, $message) = %$diag;
        if ($file eq '') {
            print "general error: $message\n";
        } else {
            print "problem unlinking $file: $message\n";
        }
    }
} else {
    print "No error encountered\n";
}
```

Note that if no errors are encountered, C<$err> will reference an empty array. This means that C<$err> will always end up TRUE; so you need to test C<@$err> to determine if errors occured.

=head2 NOTES

C<File::Path> blindly exports C<mkpath> and C<rmtree> into the current namespace. These days, this is considered bad style, but to change it now would break too much code. Nonetheless, you are invited to specify what it is you are expecting to use:

```perl
use File::Path 'rmtree';
```

The routines C<make_path> and C<remove_tree> are B<not> exported by default. You must specify which ones you want to use.

```perl
use File::Path 'remove_tree';
```
Note that a side-effect of the above is that `C<mkpath>` and `C<rmtree>`
are no longer exported at all. This is due to the way the `C<Exporter>`
module works. If you are migrating a codebase to use the new
interface, you will have to list everything explicitly. But that’s
just good practice anyway.

    use File::Path qw(remove_tree rmtree);

=head3 API CHANGES

The API was changed in the 2.0 branch. For a time, `C<mkpath>` and
`C<rmtree>` tried, unsuccessfully, to deal with the two different
calling mechanisms. This approach was considered a failure.

The new semantics are now only available with `C<make_path>` and
`C<remove_tree>`. The old semantics are only available through
`C<mkpath>` and `C<rmtree>`. Users are strongly encouraged to upgrade
to at least 2.08 in order to avoid surprises.

=head3 SECURITY CONSIDERATIONS

There were race conditions 1.x implementations of File::Path's
`C<rmtree>` function (although sometimes patched depending on the OS
distribution or platform). The 2.0 version contains code to avoid the
problem mentioned in CVE-2002-0435.

See the following pages for more information:

    http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=286905
    http://www.nntp.perl.org/group/perl.perl5.porters/2005/01/msg97623.html

Additionally, unless the `C<safe>` parameter is set (or the
third parameter in the traditional interface is TRUE), should a
`C<remove_tree>` be interrupted, files that were originally in read-only
mode may now have their permissions set to a read-write (or "delete
OK") mode.

=head1 DIAGNOSTICS

FATAL errors will cause the program to halt (`C<croak>`), since the
problem is so severe that it would be dangerous to continue. (This
can always be trapped with `C<eval>`, but it's not a good idea. Under
the circumstances, dying is the best thing to do).

SEVERE errors may be trapped using the modern interface. If the
they are not trapped, or the old interface is used, such an error
will cause the program will halt.
All other errors may be trapped using the modern interface, otherwise they will be \texttt{carp}ed about. Program execution will not be halted.

\=over 4

\=item mkdir \texttt{[path]}: \texttt{[errmsg]} (SEVERE)

\texttt{mkdir} was unable to create the path. Probably some sort of permissions error at the point of departure, or insufficient resources (such as free inodes on Unix).

\=item No root path(s) specified

\texttt{mkdir} was not given any paths to create. This message is only emitted if the routine is called with the traditional interface. The modern interface will remain silent if given nothing to do.

\=item No such file or directory

On Windows, if \texttt{mkdir} gives you this warning, it may mean that you have exceeded your filesystem's maximum path length.

\=item cannot fetch initial working directory: \texttt{[errmsg]}

\texttt{remove_tree} attempted to determine the initial directory by calling \texttt{Cwd::getcwd}, but the call failed for some reason. No attempt will be made to delete anything.

\=item cannot stat initial working directory: \texttt{[errmsg]}

\texttt{remove_tree} attempted to stat the initial directory (after having successfully obtained its name via \texttt{Cwd::getcwd}), however, the call failed for some reason. No attempt will be made to delete anything.

\=item cannot chdir to \texttt{[dir]}: \texttt{[errmsg]}

\texttt{remove_tree} attempted to set the working directory in order to begin deleting the objects therein, but was unsuccessful. This is usually a permissions issue. The routine will continue to delete other things, but this directory will be left intact.

\=item directory \texttt{[dir]} changed before chdir, expected dev=\texttt{[n]} ino=\texttt{[n]}, actual dev=\texttt{[n]} ino=\texttt{[n]}, aborting. (FATAL)

\texttt{remove_tree} recorded the device and inode of a directory, and then moved into it. It then performed a \texttt{stat} on the current directory and detected that the device and inode were no longer the same. As this is at the heart of the race condition problem, the program
will die at this point.

=item cannot make directory [dir] read+writeable: [errmsg]

C<remove_tree> attempted to change the permissions on the current directory to ensure that subsequent unlinkings would not run into problems, but was unable to do so. The permissions remain as they were, and the program will carry on, doing the best it can.

=item cannot read [dir]: [errmsg]

C<remove_tree> tried to read the contents of the directory in order to acquire the names of the directory entries to be unlinked, but was unsuccessful. This is usually a permissions issue. The program will continue, but the files in this directory will remain after the call.

=item cannot reset chmod [dir]: [errmsg]

C<remove_tree>, after having deleted everything in a directory, attempted to restore its permissions to the original state but failed. The directory may wind up being left behind.

=item cannot remove [dir] when cwd is [dir]

The current working directory of the program is F</some/path/to/here> and you are attempting to remove an ancestor, such as F</some/path>. The directory tree is left untouched.

The solution is to C<chdir> out of the child directory to a place outside the directory tree to be removed.

=item cannot chdir to [parent-dir] from [child-dir]: [errmsg], aborting. (FATAL)

C<remove_tree>, after having deleted everything and restored the permissions of a directory, was unable to chdir back to the parent. The program halts to avoid a race condition from occurring.

=item cannot stat prior working directory [dir]: [errmsg], aborting. (FATAL)

C<remove_tree> was unable to stat the parent directory after have returned from the child. Since there is no way of knowing if we returned to where we think we should be (by comparing device and inode) the only way out is to C<croak>.

=item previous directory [parent-dir] changed before entering [child-dir], expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)
When `remove_tree` returned from deleting files in a child directory, a check revealed that the parent directory it returned to wasn't the one it started out from. This is considered a sign of malicious activity.

```
=item cannot make directory [dir] writeable: [errmsg]
```

Just before removing a directory (after having successfully removed everything it contained), `remove_tree` attempted to set the permissions on the directory to ensure it could be removed and failed. Program execution continues, but the directory may possibly not be deleted.

```
=item cannot remove directory [dir]: [errmsg]
```

`remove_tree` attempted to remove a directory, but failed. This may because some objects that were unable to be removed remain in the directory, or a permissions issue. The directory will be left behind.

```
=item cannot restore permissions of [dir] to [0nnn]: [errmsg]
```

After having failed to remove a directory, `remove_tree` was unable to restore its permissions from a permissive state back to a possibly more restrictive setting. (Permissions given in octal).

```
=item cannot make file [file] writeable: [errmsg]
```

`remove_tree` attempted to force the permissions of a file to ensure it could be deleted, but failed to do so. It will, however, still attempt to unlink the file.

```
=item cannot unlink file [file]: [errmsg]
```

`remove_tree` failed to remove a file. Probably a permissions issue.

```
=item cannot restore permissions of [file] to [0nnn]: [errmsg]
```

After having failed to remove a file, `remove_tree` was also unable to restore the permissions on the file to a possibly less permissive setting. (Permissions given in octal).

```
=item unable to map [owner] to a uid, ownership not changed
```

`make_path` was instructed to give the ownership of created directories to the symbolic name [owner], but `getpwnam` did not return the corresponding numeric uid. The directory will be created, but ownership will not be changed.

```
=item unable to map [group] to a gid, group ownership not changed
```
C<make_path> was instructed to give the group ownership of created directories to the symbolic name [group], but C<getgrnam> did not return the corresponding numeric gid. The directory will be created, but group ownership will not be changed.

=head1 SEE ALSO

=item *

L<File::Remove>

Allows files and directories to be moved to the Trashcan/Recycle Bin (where they may later be restored if necessary) if the operating system supports such functionality. This feature may one day be made available directly in C<File::Path>.

=item *

L<File::Find::Rule>

When removing directory trees, if you want to examine each file to decide whether to delete it (and possibly leaving large swathes alone), F<File::Find::Rule> offers a convenient and flexible approach to examining directory trees.

=head1 BUGS

Please report all bugs on the RT queue:

L<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

You can also send pull requests to the Github repository:

L<https://github.com/dland/File-Path>

=head1 ACKNOWLEDGEMENTS

Paul Szabo identified the race condition originally, and Brendan O'Dea wrote an implementation for Debian that addressed the problem. That code was used as a basis for the current code. Their efforts are greatly appreciated.
Gisle Aas made a number of improvements to the documentation for 2.07 and his advice and assistance is also greatly appreciated.

=head1 AUTHORS

Tim Bunce and Charles Bailey. Currently maintained by David Landgren <david@landgren.net>.

=head1 COPYRIGHT

This module is copyright (C) Charles Bailey, Tim Bunce and David Landgren 1995-2013. All rights reserved.

=head1 LICENSE

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1000849027_1646171591.96/0/perl-File-Path-2.09-2.el7.src.rpm-cosi-expand-archive-bdEsd6ze/File-Path-2.09.tar.gz-cosi-expand-archive-qBuSCUkq/File-Path-2.09/Path.pm
No license file was found, but licenses were detected in source scan.

This file is the README for File::Path version 2.09

INSTALLATION

perl Makefile.PL
make
make test
make install

TESTING

This module requires the following modules for thorough testing:

(These are core, you should be ok)
Cwd
File::Path
File::Spec::Functions
Test::More

(These are optional)
Test::Output
Test::Pod
Test::Pod::Coverage
For more advanced testing, it is possible to run the eg/setup-extra-tests program as root. This will create a directory 'EXTRA' that contains a mixture of files and directories owned both by root and a specified user (uid or login name).

```bash
sudo perl eg/setup-extra-tests -u david
make test
```

This is used to exercise parts of the code that ordinarily wouldn't be visited. That is, as root, some files and directories will be created that the user 'david', which will run the test suite, will not be able to remove.

It would be nice to do something tricksy like this for Win32, which has a much richer privilege scheme.

**BUGS**

Please report all bugs on the RT queue:


You can also send pull requests to the Github repository:

[L<https://github.com/dland/File-Path>](https://github.com/dland/File-Path)

**AUTHORS**

Tim Bunce and Charles Bailey.

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Found in path(s):

No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help          show short help
--version       show version
--patch=file    write one patch file with changes
--copy=suffix   write changed copies with suffix
--diff=program  use diff program and options
--compat-version=version  provide compatibility with Perl version
--cplusplus     accept C++ comments
--quiet         don't output anything except fatal errors
--nodiag        don't show diagnostics
--nohints  don't show hints
--nochanges don't suggest changes
--nofilter  don't filter input files

--strip     strip all script and doc functionality from pport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help
Display a brief usage summary.

=head2 --version
Display the version of F<ppport.h>.

=head2 --patch=I<file>
If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>
If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>
Manually set the diff program and options to use. The default
is to use Text::Diff, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version 5.003. You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.
The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.
If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_Global</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:
perl ppport.h --compat-version=5.6.0 --cplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4
The complete output from running "perl -V"

This file.

The name and version of the module you were trying to build.

A full log of the build that failed.

Any other information that you think could be relevant.

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '~{RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.19_02;

my %opt = (
    quiet       => 0,
    diag        => 1,
    hints       => 1,
    changes     => 1,
    cplusplus   => 0,
    filter      => 1,
    strip       => 0,
    version     => 0,
);

my($ppport) = $0 =~ /\([\w.]+)\$/;
my $LF = '(?:\r\n|\[\r\n\])';  # line feed
my $HS = "[ \t\]";            # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/\*';
my $cce  = '\*/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
    print "$0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
    if ($@) {
die "Invalid version number format: $opt{'compat-version'}\n"
;
}
die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;

$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)|([^|]*)|([^|]*)|([^|]*)$/
  ? ( $1 => 
    ($2                  ? ( base     => $2 ) : ()),
    ($3                  ? ( todo     => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())
  )
  : die "invalid spec: $_" } qw(AvFILLp|5.004050||p
AvFILL||n
CLASS||n
CPERL.scope|5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILE|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV_set|5.010001||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER||
ERRSV|5.004050||p
EXTEND||
EXTERN_C|5.005000||p
PL_dowarn||pn
PL_ergyv|5.004050||p
PL_error_count|5.011004||p
PL_expect|5.011004||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.011004||p
PL_in_my|5.011004||p
PL_keyword_plugin|5.011002|
PL_last_in_gv||n
PL_laststatval|5.005000||p
PL_lex_state|5.011004||p
PL_lex_stuff|5.011004||p
PL_linestr|5.011004||p
PL_modglobal|5.005000|n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv||n
PL_opfreehook|5.011000|n
PL_parser|5.009005|5.009005|p
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rsfp_filters|5.004050||p
PL_rsfp|5.004050||p
PL_rs||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_UNDEF|5.004050||pn
PL_sv_UNDEF|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.011004||p
POP_MULTICALL|5.011005|
POPi||n
POPi||n
POPi||n
POPpbytex|5.007001||n
POPpx|5.005030||n
POPp||n
POPs||n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
Open Source Used In Data Center Network Manager 11.5(1)  12462

PTR2UV[5.006000][p
PTR2nat[5.009003][p
PTR2ul[5.007001][p
PTRV[5.006000][p
PUSHMARK||
PUSH_MULTICALL||5.011005|
PUSHi||
PUSHmortal[5.009002][p
PUSHn||
PUSHp||
PUSHs||
PUSHu[5.004000][p
PUTBACK||
PerlIO_clearerr[5.007003]
PerlIO_close[5.007003]
PerlIO_context_layers[5.009004]
PerlIO_eof[5.007003]
PerlIO_error[5.007003]
PerlIO_filenno[5.007003]
PerlIO_fill[5.007003]
PerlIO_flush[5.007003]
PerlIO_get_base[5.007003]
PerlIO_get_bufsiz[5.007003]
PerlIO_get_cnt[5.007003]
PerlIO_get_ptr[5.007003]
PerlIO_read[5.007003]
PerlIO_seek[5.007003]
PerlIO_set_cnt[5.007003]
PerlIO_set_prcnt[5.007003]
PerlIO_setlinebuf[5.007003]
PerlIO_stderr[5.007003]
PerlIO_stdin[5.007003]
PerlIO_stdout[5.007003]
PerlIO_tell[5.007003]
PerlIO_unread[5.007003]
PerlIO_write[5.007003]
Perl_signbit[5.009005][n
PoisonFree[5.009004][p
PoisonNew[5.009004][p
PoisonWith[5.009004][p
Poison[5.008000][p
RETVAL[||n
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
SAVEPADSV||
SAVETMPS||
SAVE_DEFSV[5.004050]\p
SPAGAIN||
SP||
START_EXTERN_C[5.005000]\p
START_MY_CXT[5.007003]\p
STMT_END||\p
STMT_START||\p
STR_WITH_LEN[5.009003]\p
ST||
SV_CONST_RETURN[5.009003]\p
SV_COW_DROP_PV[5.008001]\p
SV_COW_SHARED_HASH_KEYS[5.009005]\p
SV_GMAGIC[5.007002]\p
SV_HAS_TRAILING_NUL[5.009004]\p
SV_IMMEDIATE_UNREF[5.007001]\p
SV_MUTABLE_RETURN[5.009003]\p
SV_NOSTEAL[5.009002]\p
SV_SMAGIC[5.009003]\p
SV_UTF8_NO_ENCODING[5.008001]\p
SVfARG[5.009005]\p
SVf_UTF8[5.006000]\p
SVf[5.006000]\p
SV_IV||
SV_NV||
SV_PVAV||
SV_PVCV||
SV_PVHV||
SV_PVMG||
SV_PV||
Safefree||
Slab_Alloc||
Slab_Free||
Slab_to_rw||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGAMAGIC[5.006001]
SvGETMAGIC[5.004050]\p
SvGROW||
SvIOK_UV[5.006000]
SvIOK_notUV[5.006000]
SvIOK_off||
SvIOK_only_UV[5.006000]
SvIOK_only||
SvIOK_on||
SvIOKp||
SvIOK||
SvIVX||
SvIV_nomg[5.009001]|p
SvIV_set||
SvIVx||
SvIV||
SvIsCOW_shared_hash[5.008003]
SvIsCOW[5.008003]
SvLEN_set||
SvLEN||
SvLOCK[5.007003]
SvMAGIC_set[5.009003]|p
SvNIOK_off||
SvNIOKp||
SvNOK||
SvNOK_off||
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pmop_dump
pmop_xmldump
pmruntime
pmtrans
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sv_setsv_flags[5.007002]
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xmldump_all_perl
xmldump_all
xmldump_attr
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xmldump_form
xmldump_indent
xmldump_packsubs_perl
xmldump_packsubs
xmldump_sub_perl
xmldump_sub
xmldump_vindent
yyerror
yylex
yyparse
yywarn
;

if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ", ":"x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
  }
  exit 0;
}

# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {

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my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {
  $function->[1] .= $_;
}
}$function = [$1, ”] if m{"DPPP\_(my_\(\w+\))"};

$replace = $1 if m{"\s+$rcce\s+Replace:\s+\(\d+\)\s+\$rcce\s+\$\"};
$replace{$2} = $1 if $replace and m{"\s+\#\s+define\s+\(\$rcce\)\s+\$rcce\s+\(\w+\)\s+\$rcce\s+\(\w+\)\s+\$rcce\s+\$\"};
$replace{$1} = $2 if m{"\s+$rcce\s+Replace \(\w+\) with \(\w+\) \$rcce\s+\$rcce\s+\$\"};
if (m{"\s+$rcce\s+\(\w+\)\s+\$rcce\s+\(\w+\)\s+\$rcce\s+\(\w+\)\s+\$rcce\s+\$\"}) {
  my @deps = map { s/\s+/\s+; $\_ / split \s+\/, $3; 
  my $d;
  for $d (map { s/\s+/\s+; $\_ / split \s+\/, $1) {
    push @{$depends{$d}}, @deps;
  }
}
}$need{$1} = 1 if m{"\#if\s+defined\(\$rcce\)\s+\$rcce\s+\$\"};
}
for (values %depends) {
  my $s;
  $s = [sort grep !$s{$_}++, @$_];
}
if (exists $opt{‘api-info‘}) {
  my $f;
  my $count = 0;
  my $match = $opt{‘api-info‘} =~ m!^/(.*)/$! ? $1 : “^$opt{‘api-info‘}$$”;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print “=== $f ===

”; my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print “Supported at least starting from perl-$base:\n”; $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003”;
        }
print "Support by $ppport provided back to perl-$todo.\n";
print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
print "Depends on: ", join(', ', @{$depends{$f}}), ",\n" if exists $depends{$f};
print "\nShints\n\n" if exists $shints{$f};
print "\nWARNING:\n\nwarnings\n\n" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching \nopt\n\napi-info\n\n\n.\n\n";
print "\n"
exit 0;
}

if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $API{$f}{provided};
  my @flags;
  push @flags, 'explicit' if exists $need{$f};
  push @flags, 'depend'   if exists $depends{$f};
  push @flags, 'hint'     if exists $shints{$f};
  push @flags, 'warning'  if exists $warnings{$f};
  my $flags = @flags ? '  [' . join(', ', @flags) . '] ' : "
  print "$f$flags\n"
}
exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else { warn "$_ is not a file.\n" }
    }
    else {
      my @new = grep { -f } glob $_
      or warn "$$_ does not exist.\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }

else {
  eval {
    require File::Find;
    File::Find::find(sub {
      $File::Find::name =~ /($srcext)$/i
      and push @files, $File::Find::name;
    }, '.');
  }
  if ($@) {
    @files = map { glob "*$_" } @srcext;
  }
}

if (!@ARGV || $opt{filter}) {
  my(@in, @out);
  my %xsc = map { /(.*)\sxs$/ ? ($1\.c" => 1, "$1\.cc" => 1) : () } @files;
  for (@files) {
    my $out = exists $xsc{$_} || /\Q$ppport\E$/i || !(/$srcext$/i;
      push @ { $out ? \@out : \@in }, $_;
    }
  }
  if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):\n", join "\n", @out);
  }
  @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my %file = (orig => $c, changes => 0);

for $filename (@files) {
  unless (open IN, "<$filename") {
    warn "Unable to read from $filename: $!\n";
    next;
  }

  info("Scanning $filename ...);

  my $c = do { local $/; <IN> };
  close IN;

  my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;

$c = s{ 
( ^SH*\#SH*include\b[^\r\n]+\b(?:QSppport\ExSUB\b)[^\r\n]* \\
| ^SH*\#SH*(?:define|elif|if(?:\:def)?)\b[^\r\n]* \\
| ( ^SH*[^\r\n]+\b[^
]* \\
| \([^\n]+\b[^
]+\b[^
\]* \\
| \([^\n]+\b[^
\]* \\
| / (?: \*[^\*]*\*+(?:[^\$ccs]\[^\*]*\*+)* / | /[^\r\n]*/ ) \\
} { defined $2 && push @ccom, $2; defined $1 ? $1 : "$ccs$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^SH*\#SH*include[^\r\n]+\bQSppport\Exb/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ Ab?:Perl_)\b($match)\b/ { 
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_PPerl}{$func}++ if $c =~ AbPerl_$func\b/;
    if (exists $API{$func}{provided}) { 
      $file{uses_provided}{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{\'compat-version\'}) { 
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) { 
          $file{uses_deps}{$func} = \@deps;
          for (@deps) { 
            $file{uses} {$_} = 0 unless exists $file{uses} {$_};
          }
        }
      }
      for ($func, @deps) { 
        $file{needs} {$_} = \'static\' if exists $need{$_};
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{\'compat-version\'}) { 
      if ($c =~ /Ab$func\b/) { 
        $file{uses_todo}{$func}++;
      }
    }
  }
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}

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if ($changes) {
    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
    $file{changes} += $changes;
}
}

else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\s*(aTHX_?)}{$func\1(}g);
}
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(’,’, @{$file{uses_deps}{$func}}));
        } else {  
            diag("Uses $func");
        }
    } $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version(API{$func}{todo}), ", even with '$ppport'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {

diag($message);
$file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
}
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$func_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_$func_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_$func_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m));
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@ {$global{needs}{$func}}] need $func, adding global request");
            }
            else {
                diag("File needs $func, adding static request");
            }
            $pp .= "$define NEED_$func$suffix\n";
        }
    }

    if ($pp && ($c =~ s/^$HS*#$HS*define$HS+NEED_\w+/\$pp/m)) {
        $pp = "";
        $file{changes}++;}
}
unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/$($HS*$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
    || ($c =~ s/$($HS*$HS*include.*$ppport\E)/$pp/m)
    || ($c =~ s/$($HS*$HS*include.*XSUB.*\w+*/$pp/m)
    || ($c =~ s/$/$/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/$($HS*$HS*include.*$ppport.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rcs$ix$rcce/$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rcs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : ";
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        }
    }
}
else {
    local *F;
    if (open F, "$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
    }
    else {
        error("Cannot open '$newfile' for writing: $!");
    }
}

elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, "$opt{patch}") {
                $patch_opened = 1;
            }
        }
        else {
            error("Cannot open '$opt{patch}' for writing: $!");
            delete $opt{patch};
            $opt{changes} = 1;
            goto fallback;
        }
        mydiff(*PATCH, $filename, $c);
    }
    else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
    else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
}
else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;
sub try_use { eval "use @_; return $@ eq "" }

sub mydiff
{
  local *F = shift;
  my($file, $str) = @_; 
  my $diff;

  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }

  if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
  }

  if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
  }

  if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
  }

  if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
  }

  print F $diff;
}

sub run_diff
{
  my($prog, $file, $str) = @_; 
  my $tmp = 'dppptemp';
  my $suf = 'aaa';
  my $diff = ''; 
  local *F;

  while (-e "$tmp.$suf") { $suf++ }
  $tmp = "$tmp.$suf";

  $tmp = "$tmp.$suf";
if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
        while (<F>) {
            s/Q$Q\tmp\E/$file.patched/;
            $diff .= $_;
        }
        close F;
        unlink $tmp;
        return $diff;
    }
    unlink $tmp;
} else {
    error("Cannot open 'tmp' for writing: $!");
}
return undef;
}

sub rec_depend {
    my($func, $seen) = @_;;
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
    return;
}

sub parse_version {
    my $ver = shift;
    if ($ver =~ /^\d+.\d+.\d+$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+.\d+\.[\d_]*/ ) {
        die "cannot parse version '$ver'
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+.(\d{3})(\d{3})/;
    return ($r, $v, $s);

$$v = \text{int} \ v;$$
$$s = \text{int} \ s;$$

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s \ % 10) {
        die "cannot parse version \$ver\n";
    }
}

return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    \$ver =~ s/$/000000/;
    my($r,$v,$s) = \$ver =~ /\d+\.(\d{3})\d{3}/;

    \$v = \text{int} \ \$v;
    \$s = \text{int} \ \$s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s \ % 10) {
            die "invalid version \$ver\n";
        }
        \$s /= 10;

        \$ver = \text{sprintf} "\%d.\%03d", \$r, \$v;
        \$s > 0 and \$ver .= \text{sprintf} "\%02d", \$s;

        return \$ver;
    }

    return \text{sprintf} "\%d.\%d.\%d", \$r, \$v, \$s;
}

sub info
{
    \$opt{quiet} and return;
    print @_, \"\n\";
}

sub diag
{
    \$opt{quiet} and return;
    \$opt{diag} and print @_, \"\n\";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

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exit 2;

/

sub strip
{
  my $self = do { local(@ARGV,$/=($0); <> );
      my($copy) = $self =~ /^=head\d+s+COPYRIGHT\s*\^\([^\^]*\)\^\=\w+\=\ms;
      $copy =~ s/^(?=$HS+)/    /gms;
      $self =~ s/^$HS+Do NOT edit.\^\=\ms;)
      $self =~ s/^SKIP.\^\=\ms;)
      if ($@ ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort }
        \$@ and die "Cannot require Devel::PPPort, please install\n"
        if (eval \$Devel::PPPort::VERSION < $VERSION) {
          die "$0 was originally generated with Devel::PPPort $VERSION\n"
          . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION\n"
          . "Please install a newer version, or --unstrip will not work\n"
        }
        Devel::PPPort::WriteFile($0);
        exit 0;
      }
      print <<END;
      Sorry, but this is a stripped version of \$0.
      To be able to use its original script and doc functionality,
      please try to regenerate this file using:
      \$^X $0 --unstrip
      END
      /
      /ms;
      my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
      $c =~ s{
        ( ?:\^[^\*_]*\*_+(?:[^$ccs]\^[^*_]*\*_+)* / | \[^
        )| ( "[^"\\]*(?:\\.[^"\\]*)*" | '\[^'\\]*(?:\\.[^'\\]*)*'
        | ($HS+) ) { defined $2 ? ' ' : ($1 || '') }gsex;
      $c =~ s!\s+$!!mg;
      $c =~ s!\s+!!mg;
      open OUT, ">$0" or die "cannot strip $0: $!
      print OUT "$pl$c\n"
      exit 0;

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Found in path(s):
* /opt/cola/permits/1000848938_1646171587.35/0/perl-Scalar-List-Utils-1.27-248.el7.src.rpm-cosi-expand-archive-
  CaOWMkPy/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-uUtPmjL/Scalar-List-Utils-1.27/ppport.h

No license file was found, but licenses were detected in source scan.

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=head1 NAME

List::Util - A selection of general-utility list subroutines

=head1 SYNOPSIS

use List::Util qw(first max maxstr min minstr reduce shuffle sum);

=head1 DESCRIPTION

C<List::Util> contains a selection of subroutines that people have
expressed would be nice to have in the perl core, but the usage would
not really be high enough to warrant the use of a keyword, and the size
so small such that being individual extensions would be wasteful.

By default C<List::Util> does not export any subroutines. The
subroutines defined are

=over 4

=item first BLOCK LIST

Similar to C<grep> in that it evaluates BLOCK setting C<$_> to each element
of LIST in turn. C<first> returns the first element where the result from
BLOCK is a true value. If BLOCK never returns true or LIST was empty then
C<undef> is returned.

$foo = first { defined($_) } @list    # first defined value in @list
$foo = first { $_ > $value } @list    # first value in @list which
# is greater than $value

This function could be implemented using C<reduce> like this

$foo = reduce { defined($a) ? $a : wanted($b) ? $b : undef } undef, @list
for example wanted() could be defined() which would return the first defined value in @list

=item max LIST

Returns the entry in the list with the highest numerical value. If the list is empty then C<undef> is returned.

$foo = max 1..10 # 10
$foo = max 3,9,12 # 12
$foo = max @bar, @baz # whatever

This function could be implemented using C<reduce> like this

$foo = reduce { $a > $b ? $a : $b } 1..10

=item maxstr LIST

Similar to C<max>, but treats all the entries in the list as strings and returns the highest string as defined by the C<gt> operator. If the list is empty then C<undef> is returned.

$foo = maxstr 'A'..'Z' # 'Z'
$foo = maxstr "hello","world" # "world"
$foo = maxstr @bar, @baz # whatever

This function could be implemented using C<reduce> like this

$foo = reduce { $a gt $b ? $a : $b } 'A'..'Z'

=item min LIST

Similar to C<max> but returns the entry in the list with the lowest numerical value. If the list is empty then C<undef> is returned.

$foo = min 1..10 # 1
$foo = min 3,9,12 # 3
$foo = min @bar, @baz # whatever

This function could be implemented using C<reduce> like this

$foo = reduce { $a < $b ? $a : $b } 1..10

=item minstr LIST

Similar to C<min>, but treats all the entries in the list as strings and returns the lowest string as defined by the C<lt> operator. If the list is empty then C<undef> is returned.
$foo = \text{minstr} 'A'..'Z' \quad # 'A' \\
$foo = \text{minstr} "hello","world" \quad # "hello" \\
$foo = \text{minstr} @\text{bar}, @\text{baz} \quad # \text{whatever}

This function could be implemented using C<reduce> like this

$foo = \text{reduce} \{ \text{a lt $b \ ? $a : $b } \} 'A'..'Z'$

=item reduce BLOCK LIST

Reduces LIST by calling BLOCK, in a scalar context, multiple times, setting C<$a>$ and C<$b>$ each time. The first call will be with C<$a>$ and C<$b>$ set to the first two elements of the list, subsequent calls will be done by setting C<$a>$ to the result of the previous call and C<$b>$ to the next element in the list.

Returns the result of the last call to BLOCK. If LIST is empty then C<undef> is returned. If LIST only contains one element then that element is returned and BLOCK is not executed.

$foo = \text{reduce} \{ \text{a lt $b \ ? $a : $b } \} 1..10 \quad # \text{min} \\
$foo = \text{reduce} \{ \text{a lt $b \ ? $a : $b } \} 'aa'..'zz' \quad # \text{minstr} \\
$foo = \text{reduce} \{ \text{a + $b } \} 1 .. 10 \quad # \text{sum} \\
$foo = \text{reduce} \{ \text{a . $b } \} @\text{bar} \quad # \text{concat}

If your algorithm requires that C<reduce> produce an identity value, then make sure that you always pass that identity value as the first argument to prevent C<undef> being returned

$foo = \text{reduce} \{ \text{a + $b } \} 0, @\text{values}; \quad # \text{sum with 0 identity value}

=item shuffle LIST

Returns the elements of LIST in a random order

@\text{cards} = \text{shuffle} 0..51 \quad # 0..51 in a random order

=item sum LIST

Returns the sum of all the elements in LIST. If LIST is empty then C<undef> is returned.

$foo = \text{sum} 1..10 \quad # 55 \\
$foo = \text{sum} 3,9,12 \quad # 24 \\
$foo = \text{sum} @\text{bar}, @\text{baz} \quad # \text{whatever}

This function could be implemented using C<reduce> like this
$foo = reduce { $a + $b } 1..10

If your algorithm requires that $sum produce an identity of 0, then make sure that you always pass $0 as the first argument to prevent $undef being returned.

$foo = sum 0, @values;

=sum0 LIST

Similar to $sum, except this returns 0 when given an empty list, rather than $undef.

=back

=head1 KNOWN BUGS

With perl versions prior to 5.005 there are some cases where reduce will return an incorrect result. This will show up as test 7 of reduce.t failing.

=head1 SUGGESTED ADDITIONS

The following are additions that have been requested, but I have been reluctant to add due to them being very simple to implement in perl:

# One argument is true

sub any { return 1 for @_; 0 }

# All arguments are true

sub all { return 1 for @_; 1 }

# All arguments are false

sub none { return 1 for @_; 0 }

# One argument is false

sub notall { return 1 for @_; 0 }

# How many elements are true

sub true { scalar $_ for @_; 1 }

# How many elements are false

sub false { scalar $_ for @_; 0 }
sub false { scalar grep { !$_ } @_ }

=head1 SEE ALSO

L<Scalar::Util>, L<List::MoreUtils>

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=cut

Found in path(s):
* /opt/cola/permits/1000848938_1646171587.35/0/perl-Scalar-List-Utils-1.27-248.el7.src.rpm-cosi-expand-archive-
CaOWMkPy/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-uUutpmjL/Scalar-List-Utils-1.27/lib/List/Util.pm
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Found in path(s):
* /opt/cola/permits/1000848938_1646171587.35/0/perl-Scalar-List-Utils-1.27-248.el7.src.rpm-cosi-expand-archive-
CaOWMkPy/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-uUutpmjL/Scalar-List-Utils-1.27/ListUtil.xs
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=head1 NAME

Scalar::Util - A selection of general-utility scalar subroutines

=head1 SYNOPTIS

use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype
tainted weaken isweak isvstring looks_like_number
set_prototype);
# and other useful utils appearing below

=head1 DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have
expressed would be nice to have in the perl core, but the usage would
not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines. The subroutines defined are

=over 4

=item blessed EXPR

If EXPR evaluates to a blessed reference the name of the package that it is blessed into is returned. Otherwise C<undef> is returned.

```perl
$scalar = "foo";
$class = blessed $scalar; # undef

$ref   = [];
$class = blessed $ref;   # undef

$obj   = bless [], "Foo";
$class = blessed $obj;   # "Foo"
```

=item dualvar NUM, STRING

Returns a scalar that has the value NUM in a numeric context and the value STRING in a string context.

```perl
$foo = dualvar 10, "Hello";
$num = $foo + 2;       # 12
$str = $foo . " world"; # Hello world
```

=item isdual EXPR

If EXPR is a scalar that is a dualvar, the result is true.

```perl
$foo = dualvar 86, "Nix";
$dual = isdual($foo);  # true
```

Note that a scalar can be made to have both string and numeric content through numeric operations:

```perl
$foo = "10";
$dual = isdual($foo); # false
$bar = $foo + 0;
$dual = isdual($foo); # true
```

Note that although C<$!> appears to be dual-valued variable, it is actually implemented using a tied scalar:
$! = 1;
print("$!\n");          # "Operation not permitted"
$dual = isdual($!);       # false

You can capture its numeric and string content using:

$err = dualvar $!, $!;
$dual = isdual($err);       # true

=item isvstring EXPR

If EXPR is a scalar which was coded as a vstring the result is true.

$vs   = v49.46.48;
$fmt  = isvstring($vs) ? "%vd" : "%s"; #true
printf($fmt,$vs);

=item looks_like_number EXPR

Returns true if perl thinks EXPR is a number. See
L<perlapi/looks_like_number>.

=item openhandle FH

Returns FH if FH may be used as a filehandle and is open, or FH is a tied
handle. Otherwise C<undef> is returned.

$fh = openhandle(*STDIN);   # *STDIN
$fh = openhandle(\*STDIN);  # *STDIN
$fh = openhandle(*NOTOPEN); # undef
$fh = openhandle("scalar"); # undef

=item readonly SCALAR

Returns true if SCALAR is readonly.

sub foo { readonly($_[0]) }

$readonly = foo($bar);    # false
$readonly = foo(0);       # true

=item refaddr EXPR

If EXPR evaluates to a reference the internal memory address of
the referenced value is returned. Otherwise C<undef> is returned.

$addr = refaddr "string";  # undef
$addr = refaddr \$var;   # eg 12345678
$addr = refaddr [];     # eg 23456784

$obj = bless {}, "Foo";
$addr = refaddr $obj;   # eg 88123488

=item reftype EXPR

If EXPR evaluates to a reference the type of the variable referenced
is returned. Otherwise C<undef> is returned.

$type = reftype "string";   # undef
$type = reftype \$var;      # SCALAR
ftype = reftype [];        # ARRAY

$obj = bless {}, "Foo";
$type = reftype $obj;      # HASH

=item set_prototype CODEREF, PROTOTYPE

Sets the prototype of the given function, or deletes it if PROTOTYPE is
undefined. Returns the CODEREF.

set_prototype \&foo, '$$';

=item tainted EXPR

Return true if the result of EXPR is tainted.

$taint = tainted("constant");   # false
$type = tainted($ENV{PWD});    # true if running under -T

=item weaken REF

REF will be turned into a weak reference. This means that it will not
hold a reference count on the object it references. Also when the reference
count on that object reaches zero, REF will be set to undef.

This is useful for keeping copies of references, but you don't want to
prevent the object being DESTROY-ed at its usual time.

{
    my $var;
    $ref = \$var;
    weaken($ref);       # Make $ref a weak reference
}
    # $ref is now undef
Note that if you take a copy of a scalar with a weakened reference, the copy will be a strong reference.

    my $var;
    my $foo = \$var;
    weaken($foo);          # Make $foo a weak reference
    my $bar = $foo;        # $bar is now a strong reference

This may be less obvious in other situations, such as C<grep()> for instance when grepping through a list of weakened references to objects that may have been destroyed already:

    @object = grep { defined } @object;

This will indeed remove all references to destroyed objects, but the remaining references to objects will be strong, causing the remaining objects to never be destroyed because there is now always a strong reference to them in the @object array.

=item isweak EXPR

If EXPR is a scalar which is a weak reference the result is true.

    $ref  = \$foo;
    $weak = isweak($ref);   # false
    weaken($ref);
    $weak = isweak($ref);   # true

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

    $copy = $ref;
    $weak = isweak($copy);  # false

=back

=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=over

=item Weak references are not implemented in the version of perl

The version of perl that you are using does not implement weak references, to use C<isweak> or C<weaken> you will need to use a newer release of perl.

=item Vstrings are not implemented in the version of perl
The version of perl that you are using does not implement Vstrings, to use C<isvstring> you will need to use a newer release of perl.

=item C<NAME> is only available with the XS version of Scalar::Util

C<Scalar::Util> contains both perl and C implementations of many of its functions so that those without access to a C compiler may still use it. However some of the functions are only available when a C compiler was available to compile the XS version of the extension.

At present that list is: weaken, isweak, dualvar, isvstring, set_prototype

=back

=head1 KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

=head1 SEE ALSO

L<List::Util>

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Except weaken and isweak which are

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=cut

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This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.
After unpacking the distribution, to install this module type

    perl Makefile.PL  
    make               
    make test          
    make install       

KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

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Found in path(s):
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Name: perl-Scalar-List-Utils
Version: 1.27
Release: 248%{?dist}
Summary: A selection of general-utility scalar and list subroutines
License: GPL+ or Artistic
Group: Development/Libraries
URL: http://search.cpan.org/dist/Scalar-List-Utils/
Source0: http://search.cpan.org/CPAN/authors/id/P/PE/PEVANS/Scalar-List-Utils-% {version}.tar.gz
BuildRequires: perl
BuildRequires: perl(base)
BuildRequires: perl(Carp)
BuildRequires: perl(Config)
BuildRequires: perl(constant)
BuildRequires: perl(Exporter)
BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(File::Spec)
BuildRequires: perl(IO::File)
BuildRequires: perl(IO::Handle)
BuildRequires: perl(Math::BigInt)
BuildRequires: perl(overload)
BuildRequires: perl(strict)
BuildRequires: perl(Symbol)
BuildRequires: perl(Test::More)
BuildRequires: perl(threads)
BuildRequires: perl(threads::shared)
BuildRequires: perl(Tie::Handle)
BuildRequires: perl(Tie::Scalar)
BuildRequires: perl(Tie::StdScalar)
BuildRequires: perl(vars)
BuildRequires: perl(warnings)
BuildRequires: perl(XSLoader)
Requires: perl(MODULE_COMPAT_%(eval "\"%{__perl} -V:version\"; echo $version))
Requires: perl(Carp)

%{?perl_default_filter}

%description
This package contains a selection of subroutines that people have expressed
would be nice to have in the perl core, but the usage would not really be
high enough to warrant the use of a keyword, and the size so small such
that being individual extensions would be wasteful.

%prep
%setup -q -n Scalar-List-Utils-%{version}

%build
%{__perl} Makefile.PL INSTALLDIRS=vendor OPTIMIZE="%{optflags}"
make %{?_smp_mflags}

%install
make pure_install DESTDIR=%{buildroot}

find %{buildroot} -type f -name .packlist -exec rm -f {} \;
find %{buildroot} -type f -name ".*.bs" -size 0 -exec rm -f {} \;

%{_fixperms} %{buildroot}/*

%check
make test

%files
%doc Changes README
%{perl_vendorarch}/auto/*
%{perl_vendorarch}/List*
%{perl_vendorarch}/Scalar*
%{_mandir}/man3/*

%changelog
* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 1.27-248
  - Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.27-247
  - Mass rebuild 2013-12-27
* Wed Jul 31 2013 Petr Pisar <ppisar@redhat.com> - 1.27-246
  - Specify all dependencies

* Fri Jan 04 2013 Iain Arnell <iarnell@gmail.com> 1.27-245
  - update to latest upstream version

* Fri Aug 17 2012 Petr Pisar <ppisar@redhat.com> - 1.25-240
  - Increase release to replace perl sub-package (bug #848961)

* Thu Aug 16 2012 Petr Pisar <ppisar@redhat.com> - 1.25-4
  - Correct dependencies

* Tue Aug 14 2012 Daniel Mach <dmach@redhat.com> - 1.25-3.1
  - Rebuild for perl 5.16

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.25-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Wed Jun 06 2012 Petr Pisar <ppisar@redhat.com> - 1.25-2
  - Perl 5.16 rebuild

* Sun Mar 25 2012 Iain Arnell <iarnell@gmail.com> 1.25-1
  - update to latest upstream version

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.23-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Fri Jun 17 2011 Marcela Malov <mmaslano@redhat.com> - 1.23-2
  - Perl mass rebuild

* Mon Feb 21 2011 Iain Arnell <iarnell@gmail.com> 1.23-1
  - Specfile autogenerated by cpanspec 1.79.

Found in path(s):
* /opt/cola/permits/1000848938_1646171587.35/0/perl-Scalar-List-Utils-1.27-248.el7.src.rpm-cosi-expand-archive-CaOWMkPy/perl-Scalar-List-Utils.spec
  No license file was found, but licenses were detected in source scan.

  license: perl

  Found in path(s):
    No license file was found, but licenses were detected in source scan.

---

abstract: 'Common Scalar and List utility subroutines'

author:
List::Util::XS - Indicate if List::Util was compiled with a C compiler

SYNOPSIS

use List::Util::XS 1.20;

DESCRIPTION

C<List::Util::XS> can be used as a dependency to ensure List::Util was installed using a C compiler and that the XS version is installed.

During installation C<$List::Util::XS::VERSION> will be set to C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using the XS implementation, but for backwards compatibility, we still ship the C<List::Util::XS> module which just loads C<List::Util>.
SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

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MAN(1)
===============
:doctype: manpage

NAME
----
man - an interface to the online reference manuals

SYNOPSIS
--------
*man* ['OPTIONS'] 'FILE'

DESCRIPTION
-----------
*man* is forge's manual pager. Each page arguments given to man is normally the name of a program, utility, function or command. The 'manual' 'page' associated with each of these arguments is then found and displayed. 'Sections' are not yet supported.
OPTIONS
-------
None yet

FORMAT
-------
The man page need to be written in 'asciidoc' 'manpage' syntax. More info can be found here: 'http://www.methods.co.nz/asciidoc/userguide.html#X1'
An example can be seen here: http://asciidoc.googlecode.com/hg/doc/asciidoc.1.txt

BUGS
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Probably a lot

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- jsp_2_3.xsd
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Nori Korean Morphological Analyzer - Apache Lucene Integration
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mecab-ko-dic-2.0.3-20170922
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1.1364 java-diff-utils 4.0

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* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1-
  jar/com/github/difflib/algorithm/Change.java
* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1-
  jar/com/github/difflib/algorithm/jgit/HistogramDiff.java
* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1-
  jar/com/github/difflib/UnifiedDiffUtils.java
* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1-
  jar/com/github/difflib/patch/DeltaType.java

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* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1-jar/com/github/difflib/patch/DiffException.java
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* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1-jar/com/github/difflib/algorithm/DifferentiationFailedException.java
* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1-jar/com/github/difflib/text/StringUtils.java
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* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1-jar/com/github/difflib/DiffUtils.java
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* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1.jar/com/github/difflib/algorithm/DiffAlgorithmI.java
* /opt/cola/permits/1001477276_1606843467.84/0/java-diff-utils-4-0-sources-1.jar/com/github/difflib/patch/AbstractDelta.java

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**1.1366 spring-boot-autoconfigure**

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* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2-
jar/org/springframework/boot/autoconfigure/AutoConfigureAfter.java
* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2-
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* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2-
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* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2-
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* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2.jar/org/springframework/boot/autoconfigure/ldap/package-info.java
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* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2.jar/org/springframework/boot/autoconfigure/jooq/package-info.java
* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2.jar/org/springframework/boot/autoconfigure/transaction/package-info.java
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* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2.jar/org/springframework/boot/autoconfigure/jms/JmsConnectionFactoryAutoConfiguration.java

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* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2.jar/org/springframework/boot/autoconfigure/freemarker/package-info.java
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* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2.jar/org/springframework/boot/autoconfigure/solr/SolrAutoConfiguration.java
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* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2.jar/org/springframework/boot/autoconfigure/session/SessionProperties.java
* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2.jar/org/springframework/boot/autoconfigure/data/redis/LettuceClientConfigurationBuilderCustomizer.java
* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2.jar/org/springframework/boot/autoconfigure/elasticsearch/rest/RestClientBuilderCustomizer.java
* /opt/cola/permits/1136608074_1613807149.93/0/spring-boot-autoconfigure-2-1-8-release-sources-2.jar/org/springframework/boot/autoconfigure/sendgrid/SendGridAutoConfiguration.java
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1.1368 jetty 8.1.7.v20120910

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Connector: HTTP Connector.
server: MObject:RO:The server for this connector
requestHeaderSize: The size of a request header buffer
requestBufferSize: The size of a request content buffer
responseHeaderSize: The size of a response header buffer
responseBufferSize: The size of a response content buffer
integralPort: Port to use for integral redirections
integralScheme: Scheme to use for integral redirections
confidentialPort: Port to use for confidential redirections
confidentialScheme: Scheme to use for confidential redirections
host: Host name to accept connections on
port: TCP/IP port to accept connections on
maxIdleTime: Maximum time in ms that a connection can be idle before being closed
statsOn: True if statistics collection is turned on.
statsOnMs: Time in milliseconds stats have been collected for.
statsReset(): Reset statistics.
connections: Number of connections accepted by the server since statsReset() called. Undefined if setStatsOn(false).
connectionsOpen: Number of connections currently open that were opened since statsReset() called. Undefined if setStatsOn(false).
connectionsOpenMax: Maximum number of connections opened simultaneously since statsReset() called.
Undefined if setStatsOn(false).
connectionsDurationMean: Mean duration in milliseconds of open connections since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationStdDev: Standard deviation of duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMax: Maximum duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationTotal: Total duration in milliseconds of all open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMean: Mean number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsStdDev: Standard deviation of number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMax: Maximum number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
requests: Number of requests since statsReset() called. Undefined if setStatsOn(false).
open(): Open the listening port
close(): Close the listening port (but allow existing connections to continue for graceful shutdown)

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard {@link java.lang.Appendable} and provides methods to append UTF-8
 * encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to {@link #append(byte)} may be needed before state a character is
 * appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
 * inspired by
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 *
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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

Found in path(s):
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/*
 * @see org.eclipse.jetty.server.Connector#getConfidentialPort()
 */
/*
 * @see org.eclipse.jetty.server.Connector#getConfidentialScheme()
 */
/*
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
 */
/*
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
 */
/**
 * @param confidentialPort
 *            The confidentialPort to set.
 */
/**
 * @param confidentialScheme
 *            The confidentialScheme to set.
 */

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/*
 * @(#)UnixCrypt.java 0.9 96/11/25
 * 
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/**
 * @return The port to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()} *
 */
/**
 * @return The schema to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()} *
 */
/**
 * @param request A request
 * @return true if the request is confidential. This normally means the https schema has been used.
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/Connector.java
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AbstractConnector: Abstract implementation of the Connector interface.
acceptors: The number of acceptor threads.
acceptQueueSize: The size of the accept queue.
acceptorPriorityOffset: Priority offset of the acceptor threads. The priority is adjusted by this amount to either favor the acceptance of new threads and newly active connections or to favor the handling of already dispatched connections.
forwardedForHeader: The header name for forwarded for (default x-forwarded-for).
forwardedHostHeader: The header name for forwarded hosts (default x-forwarded-host)
forwardedServerHeader: The header name for forwarded server (default x-forwarded-server)
forwarded: Whether reverse proxy handling is on. True if this connector is checking the forwarded for/host/server headers.
host: Host name of the server.
hostHeader: Forced value for the host header. Only used if forwarded is true.
soLingerTime: Enable or disable SO_LINGER with the specified linger time in seconds.
reuseAddress: Whether the server socket will be opened in SO_REUSEADDR mode.
name: Name of the connector.
resolveNames: Whether or not to use DNS when handling forwards.
confidentialPort: Port to use for confidential redirections.
confidentialScheme: Scheme to use for confidential redirections.
integralPort: Port to use for integral redirections.
integralScheme: Scheme to use for integral redirections.
lowResourcesMaxIdleTime: The period in ms that a connection may be idle when the connector has low resources,
before it is closed.

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
jar/org/eclipse/jetty/server/jmx/AbstractConnector-mbean.properties
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/**
 * By default, we're confidential, given we speak SSL. But, if we've been
 * told about an confidential port, and said port is not our port, then
 * we're not. This allows separation of listeners providing INTEGRAL versus
 * CONFIDENTIAL constraints, such as one SSL listener configured to require
 * client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
jar/org/eclipse/jetty/server/ssl/SslSelectChannelConnector.java
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Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/about.html
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/**
* Find out if the request supports CONFIDENTIAL security.
* @param request the incoming HTTP request
* @return the result of calling \{@link Connector#isConfidential(Request)\}, or false
* if there is no connector
*/

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
  jar/org/eclipse/jetty/server/AbstractHttpConnection.java

1.1369 commons-lang3 2.4

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1.1370 clutter-gtk 1.8.4-1.el7

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1.1373 perl-encode 2.51-7.el7

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=head1 NAME

Encode - character encodings in Perl

=head1 SYNOPSIS

use Encode qw(decode encode);
$characters = decode('UTF-8', $octets, Encode::FB_CROAK);
$octets = encode('UTF-8', $characters, Encode::FB_CROAK);

=head2 Table of Contents

Encode consists of a collection of modules whose details are too extensive
to fit in one document. This one itself explains the top-level APIs
and general topics at a glance. For other topics and more details,
see the documentation for these modules:
DESCRIPTION

The C<Encode> module provides the interface between Perl strings and the rest of the system. Perl strings are sequences of I<characters>.

The repertoire of characters that Perl can represent is a superset of those defined by the Unicode Consortium. On most platforms the ordinal values of a character as returned by C<ord(I<S>)> is the I<Unicode codepoint> for that character. The exceptions are platforms where the legacy encoding is some variant of EBCDIC rather than a superset of ASCII; see L<perlebcdic>.

During recent history, data is moved around a computer in 8-bit chunks, often called "bytes" but also known as "octets" in standards documents. Perl is widely used to manipulate data of many types: not only strings of characters representing human or computer languages, but also "binary" data, being the machine's representation of numbers, pixels in an image, or just about anything.

When Perl is processing "binary data", the programmer wants Perl to process "sequences of bytes". This is not a problem for Perl: because a byte has 256 possible values, it easily fits in Perl's much larger "logical character".

This document mostly explains the I<how>. L<perlunitut> and L<perlunifaq> explain the I<why>.
=head3 character

A character in the range 0 .. 2**32-1 (or more); what Perl's strings are made of.

=head3 byte

A character in the range 0..255; a special case of a Perl character.

=head3 octet

8 bits of data, with ordinal values 0..255; term for bytes passed to or from a non-Perl context, such as a disk file, standard I/O stream, database, command-line argument, environment variable, socket etc.

=head1 THE PERL ENCODING API

=head2 Basic methods

=head3 encode

$octets = encode(ENCODING, STRING[, CHECK])

Encodes the scalar value I<STRING> from Perl's internal form into I<ENCODING> and returns a sequence of octets. I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">. For CHECK, see L</"Handling Malformed Data">.

For example, to convert a string from Perl's internal format into ISO-8859-1, also known as Latin1:

$octets = encode("iso-8859-1", $string);

B<CAVEAT>: When you run C<$octets = encode("utf8", $string)>; then $octets I<might not be equal to> $string. Though both contain the same data, the UTF8 flag for $octets is I<always> off. When you encode anything, the UTF8 flag on the result is always off, even when it contains a completely valid utf8 string. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 decode

$string = decode(ENCODING, OCTETS[, CHECK])

This function returns the string that results from decoding the scalar
value I<ENCODING>, assumed to be a sequence of octets in I<ENCODING>, into Perl's internal form. The returns the resulting string. As with encode(), I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">; for I<CHECK>, see L</"Handling Malformed Data">.

For example, to convert ISO-8859-1 data into a string in Perl's internal format:

```perl
$string = decode("iso-8859-1", $octets);
```

B<CAVEAT>: When you run C<$string = decode("utf8", $octets)> then $string I<might not be equal to> $octets. Though both contain the same data, the UTF8 flag for $string is on unless $octets consists entirely of ASCII data on ASCII machines or EBCDIC on EBCDIC machines. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 find_encoding

[$obj =] find_encoding(ENCODING)

Returns the I<encoding object> corresponding to I<ENCODING>. Returns C<undef> if no matching I<ENCODING> is find. The returned object is what does the actual encoding or decoding.

```perl
$utf8 = decode($name, $bytes);
```

is in fact

```perl
$utf8 = do {
    $obj = find_encoding($name);
    croak qq(encoding "$name" not found) unless ref $obj;
    $obj->decode($bytes);
};
```

with more error checking.

You can therefore save time by reusing this object as follows;

```perl
my $enc = find_encoding("iso-8859-1");
while(<>) {
    my $utf8 = $enc->decode($_);
    ... # now do something with $utf8;
}
```

Besides L</decode> and L</encode>, other methods are
available as well. For instance, C<name()> returns the canonical name of the encoding object.

    find_encoding("latin1")->name; # iso-8859-1

See L<Encode::Encoding> for details.

=head3 from_to

[$length =] from_to($octets, FROM_ENC, TO_ENC [, CHECK])

Converts I<in-place> data between two encodings. The data in $octets must be encoded as octets and I<not> as characters in Perl's internal format. For example, to convert ISO-8859-1 data into Microsoft's CP1250 encoding:

    from_to($octets, "iso-8859-1", "cp1250");

and to convert it back:

    from_to($octets, "cp1250", "iso-8859-1");

Because the conversion happens in place, the data to be converted cannot be a string constant: it must be a scalar variable.

C<from_to()> returns the length of the converted string in octets on success, and C<undef> on error.

B<CAVEAT>: The following operations may look the same, but are not:

    from_to($data, "iso-8859-1", "utf8"); #1
    $data = decode("iso-8859-1", $data); #2

Both #1 and #2 make $data consist of a completely valid UTF-8 string, but only #2 turns the UTF8 flag on. #1 is equivalent to:

    $data = encode("utf8", decode("iso-8859-1", $data));

See L</"The UTF8 flag"> below.

Also note that:

    from_to($octets, $from, $to, $check);

is equivalent to

    $octets = encode($to, decode($from, $octets), $check);
Yes, it does not respect the $check during decoding. It is deliberately done that way. If you need minute control, use C<decode> followed by C<encode> as follows:

```
$octets = encode($to, decode($from, $octets, $check_from), $check_to);
```

=head3 encode_utf8

```
$octets = encode_utf8($string);
```

Equivalent to C<$octets = encode("utf8", $string)>. The characters in $string are encoded in Perl's internal format, and the result is returned as a sequence of octets. Because all possible characters in Perl have a (loose, not strict) UTF-8 representation, this function cannot fail.

=head3 decode_utf8

```
$string = decode_utf8($octets [, CHECK]);
```

Equivalent to C<$string = decode("utf8", $octets [, CHECK])>. The sequence of octets represented by $octets is decoded from UTF-8 into a sequence of logical characters. Because not all sequences of octets are valid UTF-8, it is quite possible for this function to fail. For CHECK, see L</"Handling Malformed Data">.

=head2 Listing available encodings

```
use Encode;
@list = Encode->encodings();
```

Returns a list of canonical names of available encodings that have already been loaded. To get a list of all available encodings including those that have not yet been loaded, say:

```
@all_encodings = Encode->encodings(":all");
```

Or you can give the name of a specific module:

```
@with_jp = Encode->encodings("Encode::JP");
```

When "C::<::>" is not in the name, "C<Encode::>" is assumed.

```
@ebcdic = Encode->encodings("EBCDIC");
```

To find out in detail which encodings are supported by this package, see L<Encode::Supported>.
=head2 Defining Aliases

To add a new alias to a given encoding, use:

use Encode;
use Encode::Alias;
define_alias(NEWNAME => ENCODING);

After that, I<NEWNAME> can be used as an alias for I<ENCODING>.
I<ENCODING> may be either the name of an encoding or an
I<encoding object>.

Before you do that, first make sure the alias is nonexistent using
C<resolve_alias()> which returns the canonical name thereof.
For example:

    Encode::resolve_alias("latin1") eq "iso-8859-1" # true
    Encode::resolve_alias("iso-8859-12") # false; nonexistent
    Encode::resolve_alias($name) eq $name # true if $name is canonical

C<resolve_alias()> does not need C<use Encode::Alias>; it can be
imported via C<use Encode qw(resolve_alias)>.

See L<Encode::Alias> for details.

=head2 Finding IANA Character Set Registry names

The canonical name of a given encoding does not necessarily agree with
IANA Character Set Registry, commonly seen as C<< Content-Type:
text/plain; charset=I<WHATEVER> >>. For most cases, the canonical name
works, but sometimes it does not, most notably with "utf-8-strict".

As of C<Encode> version 2.21, a new method C<mime_name()> is therefore added.

use Encode;
my $enc = find_encoding("UTF-8");
warn $enc->name;  # utf-8-strict
warn $enc->mime_name; # UTF-8

See also: L<Encode::Encoding>

=head1 Encoding via PerlIO

If your perl supports C<PerlIO> (which is the default), you can use a
C<PerlIO> layer to decode and encode directly via a filehandle. The
following two examples are fully identical in functionality:

### Version 1 via PerlIO
open(INPUT, "< :encoding(shiftjis)", $infile)  
    || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :encoding(euc-jp)", $outfile) 
    || die "Can't open > $outfile for writing: $!";
while (<INPUT>) {   # auto decodes $_
    print OUTPUT;   # auto encodes $_
}
close(INPUT)   || die "can't close $infile: $!";
close(OUTPUT)  || die "can't close $outfile: $!";

### Version 2 via from_to()
open(INPUT, "< :raw", $infile) 
    || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :raw", $outfile) 
    || die "Can't open > $outfile for writing: $!";

while (<INPUT>) {
    from_to($_, "shiftjis", "euc-jp", 1);  # switch encoding
    print OUTPUT;   # emit raw (but properly encoded) data
}
close(INPUT)   || die "can't close $infile: $!";
close(OUTPUT)  || die "can't close $outfile: $!";

In the first version above, you let the appropriate encoding layer
handle the conversion. In the second, you explicitly translate
from one encoding to the other.

Unfortunately, it may be that encodings are C<PerlIO>-savvy. You can check
to see whether your encoding is supported by C<PerlIO> by invoking the
C<perlio_ok> method on it:

    Encode::perlio_ok("hz");             # false
    find_encoding("euc-cn")->perlio_ok;  # true wherever PerlIO is available

use Encode qw(perlio_ok);            # imported upon request
perlio_ok("euc-jp")

Fortunately, all encodings that come with C<Encode> core are C<PerlIO>-savvy
except for C<hz> and C<ISO-2022-kr>. For the gory details, see
L<Encode::Encoding> and L<Encode::PerlIO>.

=head1 Handling Malformed Data

The optional I<CHECK> argument tells C<Encode> what to do when
encountering malformed data. Without I<CHECK>, C<Encode::FB_DEFAULT>
(== 0) is assumed.

As of version 2.12, C<Encode> supports coderef values for C<CHECK>:
see below.

B<NOTE:> Not all encodings support this feature.
Some encodings ignore the I<CHECK> argument. For example, L<Encode::Unicode> ignores I<CHECK> and it always croaks on error.

=head2 List of I<CHECK> values

=head3 FB_DEFAULT

I<CHECK> = Encode::FB_DEFAULT ( == 0)

If I<CHECK> is 0, encoding and decoding replace any malformed character with a I<substitution character>. When you encode, I<SUBCHAR> is used. When you decode, the Unicode REPLACEMENT CHARACTER, code point U+FFFD, is used. If the data is supposed to be UTF-8, an optional lexical warning of warning category C<"utf8"> is given.

=head3 FB_CROAK

I<CHECK> = Encode::FB_CROAK ( == 1)

If I<CHECK> is 1, methods immediately die with an error message. Therefore, when I<CHECK> is 1, you should trap exceptions with C<eval{}>, unless you really want to let it C<die>.

=head3 FB_QUIET

I<CHECK> = Encode::FB_QUIET

If I<CHECK> is set to C<Encode::FB_QUIET>, encoding and decoding immediately return the portion of the data that has been processed so far when an error occurs. The data argument is overwritten with everything after that point; that is, the unprocessed portion of the data. This is handy when you have to call C<decode> repeatedly in the case where your source data may contain partial multi-byte character sequences, (that is, you are reading with a fixed-width buffer). Here's some sample code to do exactly that:

my($buffer, $string) = ("", "");
while (read($fh, $buffer, 256, length($buffer))) {
    $string .= decode($encoding, $buffer, Encode::FB_QUIET);
    # $buffer now contains the unprocessed partial character
}

=head3 FB_WARN

I<CHECK> = Encode::FB_WARN

I<CHECK> = Encode::FB_WARN
This is the same as C<FB_QUIET> above, except that instead of being silent on errors, it issues a warning. This is handy for when you are debugging.

=head3 FB_PERLQQ FB_HTMLCREF FB_XMLCREF

=over 2

=item perlqq mode (I<CHECK> = Encode::FB_PERLQQ)

=item HTML charref mode (I<CHECK> = Encode::FB_HTMLCREF)

=item XML charref mode (I<CHECK> = Encode::FB_XMLCREF)

=back

For encodings that are implemented by the C<Encode::XS> module, C<CHECK> C<--->
C<Encode::FB_PERLQQ> puts C<encode> and C<decode> into C<perlqq> fallback mode.

When you decode, C<\xI<HH>> is inserted for a malformed character, where
I<HH> is the hex representation of the octet that could not be decoded to utf8. When you encode, C<\x{I<HHHH>}> will be inserted, where I<HHHH> is the Unicode code point (in any number of hex digits) of the character that cannot be found in the character repertoire of the encoding.

The HTML/XML character reference modes are about the same. In place of C<\x{I<HHHH>}> HTML uses C<&#I<NNN>;> where I<NNN> is a decimal number, and
XML uses C<&#xI<HHHH>;> where I<HHHH> is the hexadecimal number.

In C<Encode> 2.10 or later, C<LEAVE_SRC> is also implied.

=head3 The bitmask

These modes are all actually set via a bitmask. Here is how the C<FB_I<XXX>>
constants are laid out. You can import the C<FB_I<XXX>> constants via
C<use Encode qw(:fallbacks)>, and you can import the generic bitmask
constants via C<use Encode qw(:fallback_all)>.

FB_DEFAULT FB_CROAK FB_QUIET FB_WARN FB_PERLQQ

<table>
<thead>
<tr>
<th>Constant</th>
<th>Mask</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIE_ON_ERR</td>
<td>0x0001</td>
<td>X</td>
</tr>
<tr>
<td>WARN_ON_ERR</td>
<td>0x0002</td>
<td>X</td>
</tr>
<tr>
<td>RETURN_ON_ERR</td>
<td>0x0004</td>
<td>X X</td>
</tr>
<tr>
<td>LEAVE_SRC</td>
<td>0x0008</td>
<td>X</td>
</tr>
<tr>
<td>PERLQQ</td>
<td>0x0100</td>
<td>X</td>
</tr>
<tr>
<td>HTMLCREF</td>
<td>0x0200</td>
<td></td>
</tr>
<tr>
<td>XMLCREF</td>
<td>0x0400</td>
<td></td>
</tr>
</tbody>
</table>

=head3 LEAVE_SRC
Encode::LEAVE_SRC

If the C<Encode::LEAVE_SRC> bit is I<not> set but I<CHECK> is set, then the source string to encode() or decode() will be overwritten in place. If you're not interested in this, then bitwise-OR it with the bitmask.

=head2 coderef for CHECK

As of C<Encode> 2.12, C<CHECK> can also be a code reference which takes the ordinal value of the unmapped character as an argument and returns a string that represents the fallback character. For instance:

```perl
$ascii = encode("ascii", $utf8, sub{ sprintf "<U+%04X>", shift });
```

Acts like C<FB_PERLQQ> but U+I<XXXX> is used instead of C\\x{I<XXXX>}.

=head1 Defining Encodings

To define a new encoding, use:

```perl
use Encode qw(define_encoding);
define_encoding($object, CANONICAL_NAME [, alias...]);
```

I<CANONICAL_NAME> will be associated with I<$object>. The object should provide the interface described in L<Encode::Encoding>. If more than two arguments are provided, additional arguments are considered aliases for I<$object>.

See L<Encode::Encoding> for details.

=head1 The UTF8 flag

Before the introduction of Unicode support in Perl, The C<eq> operator just compared the strings represented by two scalars. Beginning with Perl 5.8, C<eq> compares two strings with simultaneous consideration of I<the UTF8 flag>. To explain why we made it so, I quote from page 402 of I<Programming Perl, 3rd ed.>

=over 2

=item Goal #1:

Old byte-oriented programs should not spontaneously break on the old byte-oriented data they used to work on.

=item Goal #2:
Old byte-oriented programs should magically start working on the new character-oriented data when appropriate.

=item Goal #3:

Programs should run just as fast in the new character-oriented mode as in the old byte-oriented mode.

=item Goal #4:

Perl should remain one language, rather than forking into a byte-oriented Perl and a character-oriented Perl.

When I<Programming Perl, 3rd ed.> was written, not even Perl 5.6.0 had been born yet, many features documented in the book remained unimplemented for a long time. Perl 5.8 corrected much of this, and the introduction of the UTF8 flag is one of them. You can think of there being two fundamentally different kinds of strings and string-operations in Perl: one a byte-oriented mode for when the internal UTF8 flag is off, and the other a character-oriented mode for when the internal UTF8 flag is on.

Here is how C<Encode> handles the UTF8 flag.

=over 2

=item *

When you I<encode>, the resulting UTF8 flag is always B<off>.

=item *

When you I<decode>, the resulting UTF8 flag is B<on>—I<unless> you can unambiguously represent data. Here is what we mean by "unambiguously". After C<$utf8 = decode("foo", $octet)>,

When $octet is...   The UTF8 flag in $utf8 is
---------------------------------------------
In ASCII only (or EBCDIC only)            OFF
In ISO-8859-1                              ON
In any other Encoding                      ON
---------------------------------------------

As you see, there is one exception: in ASCII. That way you can assume Goal #1. And with C<Encode>, Goal #2 is assumed but you still have to be careful in the cases mentioned in the B<CAVEAT> paragraphs above.
This UTF8 flag is not visible in Perl scripts, exactly for the same reason you cannot (or rather, you I<don't have to>) see whether a scalar contains a string, an integer, or a floating-point number. But you can still peek and poke these if you will. See the next section.

=back

=head2 Messing with Perl's Internals

The following API uses parts of Perl's internals in the current implementation. As such, they are efficient but may change in a future release.

=head3 is_utf8

is_utf8(STRING [, CHECK])

[INTERNAL] Tests whether the UTF8 flag is turned on in the I<STRING>. If I<CHECK> is true, also checks whether I<STRING> contains well-formed UTF-8. Returns true if successful, false otherwise.

As of Perl 5.8.1, L<utf8> also has the C<utf8::is_utf8> function.

=head3 _utf8_on

_utf8_on(STRING)

[INTERNAL] Turns the I<STRING>'s internal UTF8 flag B<on>. The I<STRING> is I<not> checked for containing only well-formed UTF-8. Do not use this unless you I<know with absolute certainty> that the STRING holds only well-formed UTF-8. Returns the previous state of the UTF8 flag (so please don't treat the return value as indicating success or failure), or C<undef> if I<STRING> is not a string.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head3 _utf8_off

_utf8_off(STRING)

[INTERNAL] Turns the I<STRING>'s internal UTF8 flag B<off>. Do not use frivolously. Returns the previous state of the UTF8 flag, or C<undef> if I<STRING> is not a string. Do not treat the return value as indicative of success or failure, because that isn't what it means: it is only the previous setting.

B<NOTE>: For security reasons, this function does not work on tainted values.
UTF-8 vs. utf8 vs. UTF8

...We now view strings not as sequences of bytes, but as sequences of numbers in the range 0 .. 2**32-1 (or in the case of 64-bit computers, 0 .. 2**64-1) -- Programming Perl, 3rd ed.

That has historically been Perl's notion of UTF-8, as that is how UTF-8 was first conceived by Ken Thompson when he invented it. However, thanks to later revisions to the applicable standards, official UTF-8 is now rather stricter than that. For example, its range is much narrower (0 .. 0x10_FFFF to cover only 21 bits instead of 32 or 64 bits) and some sequences are not allowed, like those used in surrogate pairs, the 31 non-character code points 0xFDD0 .. 0xFDEF, the last two code points in any plane (0xFXXX_FFFFE and 0xFXXX_FFFFF), all non-shortest encodings, etc.

The former default in which Perl would always use a loose interpretation of UTF-8 has now been overruled:

From: Larry Wall <larry@wall.org>
Date: December 04, 2004 11:51:58 JST
To: perl-unicode@perl.org
Subject: Re: Make Encode.pm support the real UTF-8
Message-Id: <20041204025158.GA28754@wall.org>

On Fri, Dec 03, 2004 at 10:12:12PM +0000, Tim Bunce wrote:
: I've no problem with 'utf8' being perl's unrestricted utf8 encoding,
: but "UTF-8" is the name of the standard and should give the
: corresponding behaviour.

For what it's worth, that's how I've always kept them straight in my head.

Also for what it's worth, Perl 6 will mostly default to strict but make it easy to switch back to lax.

Larry

Got that? As of Perl 5.8.7, B"UTF-8" means UTF-8 in its current sense, which is conservative and strict and security-conscious, whereas B"utf8" means UTF-8 in its former sense, which was liberal and loose and lax. C<Encode> version 2.10 or later thus groks this subtle but critically important distinction between C"UTF-8" and C"utf8".

```
encode("utf8", "\x{FFFF_FFFF}", 1); # okay
encode("UTF-8", "\x{FFFF_FFFF}", 1); # croaks
```

In the C<Encode> module, C"UTF-8" is actually a canonical name for C"utf-8-strict". That hyphen between the C"UTF" and the C"8" is
critical; without it, C<Encode> goes "liberal" and (perhaps overly-)permissive:

    find_encoding("UTF-8")->name # is 'utf-8-strict'
find_encoding("utf-8")->name # ditto. names are case insensitive
find_encoding("utf_8")->name ditto. "_" are treated as "-
find_encoding("UTF8")->name # is 'utf8'.

Perl's internal UTF8 flag is called "UTF8", without a hyphen. It indicates
whether a string is internally encoded as "utf8", also without a hyphen.

=head1 SEE ALSO

L<Encode::Encoding>, L<Encode::Supported>, L<Encode::PerlIO>,
L<encoding>, L<perlebcdic>, L<perlfunc/open>,
L<perlunicode>, L<perluniintro>, L<perlunifaq>, L<perlunitut>
L<utf8>,
the Perl Unicode Mailing List L<http://lists.perl.org/list/perl-unicode.html>

=head1 MAINTAINER

This project was originated by the late Nick Ing-Simmons and later
maintained by Dan Kogai I<< <dankogai@cpan.org> >>. See AUTHORS
for a full list of people involved. For any questions, send mail to
I<< <perl-unicode@perl.org> >> so that we can all share.

While Dan Kogai retains the copyright as a maintainer, credit
should go to all those involved. See AUTHORS for a list of those
who submitted code to the project.

=head1 COPYRIGHT

Copyright 2002-2013 Dan Kogai I<< <dankogai@cpan.org> >>.

This library is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1000848976_1646171591.25/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-
zE3mozfI/Encode-2.51.tar.gz-cosi-expand-archive-Fimf2xiA/Encode-2.51/Encode.pm
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic
Found in path(s):
* /opt/cola/permits/1000848976_1646171591.25/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-zE3mozIf/perl-Encode.spec

No license file was found, but licenses were detected in source scan.

=head1 NAME

Encode::Supported -- Encodings supported by Encode

=head1 DESCRIPTION

=head2 Encoding Names

Encoding names are case insensitive. White space in names is ignored. In addition, an encoding may have aliases. Each encoding has one "canonical" name. The "canonical" name is chosen from the names of the encoding by picking the first in the following sequence (with a few exceptions).

=over 2

=item *

The name used by the Perl community. That includes 'utf8' and 'ascii'. Unlike aliases, canonical names directly reach the method so such frequently used words like 'utf8' don't need to do alias lookups.

=item *

The MIME name as defined in IETF RFCs. This includes all "iso-"s.

=item *

The name in the IANA registry.

=item *

The name used by the organization that defined it.

=back

In case I<de jure> canonical names differ from that of the Encode module, they are always aliased if it ever be implemented. So you can safely tell if a given encoding is implemented or not just by passing the canonical name.

Because of all the alias issues, and because in the general case
encodings have state, "Encode" uses an encoding object internally once an operation is in progress.

=head1 Supported Encodings

As of Perl 5.8.0, at least the following encodings are recognized. Note that unless otherwise specified, they are all case insensitive (via alias) and all occurrence of spaces are replaced with "-". In other words, "ISO 8859 1" and "iso-8859-1" are identical.

Encodings are categorized and implemented in several different modules but you don't have to C<use Encode::XX> to make them available for most cases. Encode.pm will automatically load those modules on demand.

=head2 Built-in Encodings

The following encodings are always available.

<table>
<thead>
<tr>
<th>Canonical</th>
<th>Aliases</th>
<th>Comments &amp; References</th>
</tr>
</thead>
<tbody>
<tr>
<td>ascii</td>
<td>US-ascii ISO-646-US</td>
<td>[ECMA]</td>
</tr>
<tr>
<td>ascii-ctrl</td>
<td></td>
<td>Special Encoding</td>
</tr>
<tr>
<td>iso-8859-1</td>
<td>latin1</td>
<td>[ISO]</td>
</tr>
<tr>
<td>null</td>
<td></td>
<td>Special Encoding</td>
</tr>
<tr>
<td>utf8</td>
<td>UTF-8</td>
<td>[RFC2279]</td>
</tr>
</tbody>
</table>

I<null> and I<ascii-ctrl> are special. "null" fails for all characters so when you set fallback mode to PERLQQ, HTMLCREF or XMLENCREF, ALL CHARACTERS will fall back to character references. Ditto for "ascii-ctrl" except for control characters. For fallback modes, see L<Encode>.

=head2 Encode::Unicode -- other Unicode encodings

Unicode coding schemes other than native utf8 are supported by Encode::Unicode, which will be autoloading on demand.

<table>
<thead>
<tr>
<th>Canonical</th>
<th>Aliases</th>
<th>Comments &amp; References</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCS-2BE</td>
<td>UCS-2, iso-10646-1</td>
<td>[IANA, UC]</td>
</tr>
<tr>
<td>UCS-2LE</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-16</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-16BE</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-16LE</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-32</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-32BEUCS-4</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-32LE</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-7</td>
<td></td>
<td>[RFC2152]</td>
</tr>
</tbody>
</table>
To find how (UCS-2|UTF-(16|32))(LE|BE)? differ from one another, see L<Encode::Unicode>.

UTF-7 is a special encoding which "re-encodes" UTF-16BE into a 7-bit encoding. It is implemented separately by Encode::Unicode::UTF7.

=head2 Encode::Byte -- Extended ASCII

Encode::Byte implements most single-byte encodings except for Symbols and EBCDIC. The following encodings are based on single-byte encodings implemented as extended ASCII. Most of them map \x80-\xff (upper half) to non-ASCII characters.

=over 2

=item ISO-8859 and corresponding vendor mappings

Since there are so many, they are presented in table format with languages and corresponding encoding names by vendors. Note that the table is sorted in order of ISO-8859 and the corresponding vendor mappings are slightly different from that of ISO. See L<http://czyborra.com/charsets/iso8859.html> for details.

<table>
<thead>
<tr>
<th>Lang/Regions</th>
<th>ISO/Other Std.</th>
<th>DOS</th>
<th>Windows</th>
<th>Macintosh</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. America</td>
<td>(ASCII)</td>
<td>cp437</td>
<td>cp863 (DOSCanadaF)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N. Europe</td>
<td>iso-8859-1</td>
<td>cp850</td>
<td>cp1252 MacRoman nextstep</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>hp-roman8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>cp860 (DOSP ortuguese)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cntrl. Europe</td>
<td>iso-8859-2</td>
<td>cp852</td>
<td>cp1250 MacCentralEurRoman</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MacCroatian</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MacRomanian</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MacRumanian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin3[1]</td>
<td>iso-8859-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin4[2]</td>
<td>iso-8859-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyrillics</td>
<td>iso-8859-5</td>
<td>cp855</td>
<td>cp1251 MacCyrillic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(See also next section)</td>
<td>cp866</td>
<td></td>
<td>MacUkrainian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arabic</td>
<td>iso-8859-6</td>
<td>cp864</td>
<td>cp1256 MacArabic</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>cp1006 MacFarsi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greek</td>
<td>iso-8859-7</td>
<td>cp737</td>
<td>cp1253 MacGreek</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>cp869 (DOSGreek2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hebrew</td>
<td>iso-8859-8</td>
<td>cp862</td>
<td>cp1255 MacHebrew</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turkish</td>
<td>iso-8859-9</td>
<td>cp857</td>
<td>cp1254 MacTurkish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nordics</td>
<td>iso-8859-10</td>
<td>cp865</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MacIcelandic</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MacSami
Thai is-8859-11[3] cp874 MacThai
(iso-8859-12 is nonexistent. Reserved for Indics?)
Baltics is-8859-13 cp775 cp1257
Celtics is-8859-14
Latin9 [4] is-8859-15
Latin10 is-8859-16
Vietnamese viscii cp1258 MacVietnamese

----------------------------------------------------------------

[1] Esperanto, Maltese, and Turkish. Turkish is now on 8859-9.
[3] TIS 620 + Non-Breaking Space (0xA0 / U+00A0)
[4] Nicknamed Latin0; the Euro sign as well as French and Finnish
   letters that are missing from 8859-1 were added.

All cp* are also available as ibm-* , ms-* , and windows-* . See also

Macintosh encodings don't seem to be registered in such entities as
IANA. "Canonical" names in Encode are based upon Apple's Tech Note
for details.

=item KOI8 - De Facto Standard for the Cyrillic world

Though ISO-8859 does have ISO-8859-5, the KOI8 series is far more
popular in the Net. L<Encode> comes with the following KOI charsets.
For gory details, see L<http://czyborra.com/charsets/cyrillic.html>

----------------------------------------------------------------

ekoi8-f
koi8-r cp878 [RFC1489]
koi8-u [RFC2319]

----------------------------------------------------------------

=back

=head2 gsm0338 - Hentai Latin 1

GSM0338 is for GSM handsets. Though it shares alphanumerals with
ASCII, control character ranges and other parts are mapped very
differently, mainly to store Greek characters. There are also escape
sequences (starting with 0x1B) to cover e.g. the Euro sign.

This was once handled by L<Encode::Bytes> but because of all those
unusual specifications, Encode 2.20 has relocated the support to
L<Encode::GSM0338>. See L<Encode::GSM0338> for details.
=over 2

=item gsm0338 support before 2.19

Some special cases like a trailing 0x00 byte or a lone 0x1B byte are not well-defined and decode() will return an empty string for them. One possible workaround is

```
$gsm =~ s/\x00\z/\x00\x00/;
$uni = decode("gsm0338", $gsm);
$uni .= "\xA0" if $gsm =~ /\x1B\z/;
```

Note that the Encode implementation of GSM0338 does not implement the reuse of Latin capital letters as Greek capital letters (for example, the 0x5A is U+005A (LATIN CAPITAL LETTER Z), not U+0396 (GREEK CAPITAL LETTER ZETA)).

The GSM0338 is also covered in Encode::Byte even though it is not an "extended ASCII" encoding.

=back

=head2 CJK: Chinese, Japanese, Korean (Multibyte)

Note that Vietnamese is listed above. Also read "Encoding vs Charset" below. Also note that these are implemented in distinct modules by countries, due to the size concerns (simplified Chinese is mapped to 'CN', continental China, while traditional Chinese is mapped to 'TW', Taiwan). Please refer to their respective documentation pages.

=over 2

=item Encode::CN -- Continental China

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win</th>
<th>Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>(gbk)</td>
<td>cp936 [2]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>gb12345-raw</td>
<td></td>
<td>{ GB12345 without CES }</td>
<td></td>
</tr>
<tr>
<td>gb2312-raw</td>
<td></td>
<td>{ GB2312 without CES }</td>
<td></td>
</tr>
<tr>
<td>hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-ir-165</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[1] GB2312 is aliased to this. See L<Microsoft-related naming mess>
[2] gbk is aliased to this. See L<Microsoft-related naming mess>
### Encode::JP -- Japan

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-jp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shiftjis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7bit-jis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp</td>
<td></td>
<td>[RFC1468]</td>
</tr>
<tr>
<td>iso-2022-jp-1</td>
<td></td>
<td>[RFC2237]</td>
</tr>
<tr>
<td>jis0201-raw</td>
<td>JIS X 0201 (roman + halfwidth kana) without CES</td>
<td></td>
</tr>
<tr>
<td>jis0208-raw</td>
<td>JIS X 0208 (Kanji + fullwidth kana) without CES</td>
<td></td>
</tr>
<tr>
<td>jis0212-raw</td>
<td>JIS X 0212 (Extended Kanji) without CES</td>
<td></td>
</tr>
</tbody>
</table>

### Encode::KR -- Korea

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-kr</td>
<td></td>
<td>[RFC1557]</td>
</tr>
<tr>
<td>cp949</td>
<td></td>
<td>[RFC1557]</td>
</tr>
<tr>
<td>iso-2022-kr</td>
<td></td>
<td>[RFC1557]</td>
</tr>
<tr>
<td>ksc5601-raw</td>
<td>KSC5601 without CES</td>
<td></td>
</tr>
</tbody>
</table>

[1] ks_c_5601-1987, (x-)?windows-949, and uhc are aliased to this. See below.

### Encode::TW -- Taiwan

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>big5-eten</td>
<td></td>
<td></td>
</tr>
<tr>
<td>big5-hkscs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Encode::HanExtra -- More Chinese via CPAN

Due to the size concerns, additional Chinese encodings below are distributed separately on CPAN, under the name Encode::HanExtra.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>big5ext</td>
<td></td>
<td>CMEX's Big5e Extension</td>
</tr>
<tr>
<td>big5plus</td>
<td></td>
<td>CMEX's Big5+ Extension</td>
</tr>
<tr>
<td>cccii</td>
<td></td>
<td>Chinese Character Code for Information Interchange</td>
</tr>
<tr>
<td>euc-tw</td>
<td></td>
<td>EUC (Extended Unix Character)</td>
</tr>
<tr>
<td>gb18030</td>
<td></td>
<td>GBK with Traditional Characters</td>
</tr>
</tbody>
</table>
Due to size concerns, additional Japanese encodings below are distributed separately on CPAN, under the name Encode::JIS2K.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-jisx0213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shiftjisx0123</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>jis0213-1-raw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>jis0213-2-raw</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Miscellaneous encodings

=over 2

Encode::EBCDIC

See L<perlebcdic> for details.

symbol

dingbats

MacDingbats

AdobeZdingbat

AdobeSymbol

Encode::MIME::Header
Strictly speaking, MIME header encoding documented in RFC 2047 is more of encapsulation than encoding. However, their support in modern world is imperative so they are supported.

---

MIME-Header [RFC2047]
MIME-B [RFC2047]
MIME-Q [RFC2047]
---

=item Encode::Guess

This one is not a name of encoding but a utility that lets you pick up the most appropriate encoding for a data out of given suspects. See L<Encode::Guess> for details.

=back

=head1 Unsupported encodings

The following encodings are not supported as yet; some because they are rarely used, some because of technical difficulties. They may be supported by external modules via CPAN in the future, however.

=over 2


Not very popular yet. Needs Unicode Database or equivalent to implement encode() (because it includes JIS X 0208/0212, KSC5601, and GB2312 simultaneously, whose code points in Unicode overlap. So you need to lookup the database to determine to what character set a given Unicode character should belong).

=item ISO-2022-CN [RFC1922]

Not very popular. Needs CNS 11643-1 and -2 which are not available in this module. CNS 11643 is supported (via euc-tw) in Encode::HanExtra. Autrijus Tang may add support for this encoding in his module in future.

=item Various HP-UX encodings

The following are unsupported due to the lack of mapping data.

'8' - arabic8, greek8, hebrew8, kana8, thai8, and turkish8
'15' - japanese15, korean15, and roi15
Anton Tagunov doubts its usefulness.

None of the Encode team knows Hebrew enough (ISO-8859-8, cp1255 and MacHebrew are supported because and just because there were mappings available at L<http://www.unicode.org/>). Contributions welcome.

Ditto.

Ditto.

Though Jungshik Shin has reported that Mozilla supports this encoding, it was too late before 5.8.0 for us to add it. In the future, it may be available via a separate module. See L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.uf> and L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.ut> if you are interested in helping us.

The following are unsupported due to the lack of mapping data.

MacArmenian, MacBengali, MacBurmese, MacEthiopic
MacExtArabic, MacGeorgian, MacKannada, MacKhmer
MacLaotian, MacMalayalam, MacMongolian, MacOriya
MacSinhalese, MacTamil, MacTelugu, MacTibetan
MacVietnamese

The rest which are already available are based upon the vendor mappings at L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/>.

The maps for the following are available at L<http://www.unicode.org/> but remain unsupported because those encodings need an algorithmical approach, currently unsupported by F<enc2xs>:

MacDevanagari
MacGurmukhi
MacGujarati

For details, please see C<Unicode mapping issues and notes:> at L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/DEVANAGA.TXT>.

I believe this issue is prevalent not only for Mac Indics but also in other Indic encodings, but the above were the only Indic encodings maps that I could find at L<http://www.unicode.org/>.

=back

=head1 Encoding vs. Charset -- terminology

We are used to using the term (character) I<encoding> and I<character set> interchangeably. But just as confusing the terms byte and character is dangerous and the terms should be differentiated when needed, we need to differentiate I<encoding> and I<character set>.

To understand that, here is a description of how we make computers grok our characters.

=over 2

=item *

First we start with which characters to include. We call this collection of characters I<character repertoire>.

=item *

Then we have to give each character a unique ID so your computer can tell the difference between 'a' and 'A'. This itemized character repertoire is now a I<character set>.

=item *

If your computer can grow the character set without further processing, you can go ahead and use it. This is called a I<coded character set> (CCS) or I<raw character encoding>. ASCII is used this way for most cases.

=item *

But in many cases, especially multi-byte CJK encodings, you have to tweak a little more. Your network connection may not accept any data with the Most Significant Bit set, and your computer may not be able to tell if a given byte is a whole character or just half of it. So you
have to encode the character set to use it.

A character encoding scheme (CES) determines how to encode a given character set, or a set of multiple character sets. 7bit ISO-2022 is an example of a CES. You switch between character sets via escape sequences.

Technically, or mathematically, speaking, a character set encoded in such a CES that maps character by character may form a CCS. EUC is such an example. The CES of EUC is as follows:

- Map ASCII unchanged.

- Map such a character set that consists of 94 or 96 powered by N members by adding 0x80 to each byte.

You can also use 0x8E and 0x8F to indicate that the following sequence of characters belongs to yet another character set. To each following byte is added the value 0x80.

By carefully looking at the encoded byte sequence, you can find that the byte sequence conforms a unique number. In that sense, EUC is a CCS generated by a CES above from up to four CCS (complicated?). UTF-8 falls into this category. See perlUnicode/UTF-8 to find out how UTF-8 maps Unicode to a byte sequence.

You may also have found out by now why 7bit ISO-2022 cannot comprise a CCS. If you look at a byte sequence \x21\x21, you can't tell if it is two !'s or IDEOGRAPHIC SPACE. EUC maps the latter to \xA1\xA1 so you have no trouble differentiating between "!". and S" >.

Encoding Classification (by Anton Tagunov and Dan Kogai)

This section tries to classify the supported encodings by their applicability for information exchange over the Internet and to choose the most suitable aliases to name them in the context of
such communication.

=over 2

=item *

To (en|de)code encodings marked by C<(**)>, you need C<Encode::HanExtra>, available from CPAN.

=back

Encoding names

  US-ASCII  UTF-8  ISO-8859-*  KOI8-R
  EUC-KR  Big5  GB2312

are registered with IANA as preferred MIME names and may be used over the Internet.

C<Shift_JIS> has been officialized by JIS X 0208:1997. L<Microsoft-related naming mess> gives details.

C<GB2312> is the IANA name for C<EUC-CN>. See L<Microsoft-related naming mess> for details.

C<GB_2312-80> I<raw> encoding is available as C<gb2312-raw> with Encode. See L<Encode::CN> for details.

EUC-CN
KOI8-U  [RFC2319]

have not been registered with IANA (as of March 2002) but seem to be supported by major web browsers. The IANA name for C<EUC-CN> is C<GB2312>.

KS_C_5601-1987

is heavily misused. See L<Microsoft-related naming mess> for details.

C<KS_C_5601-1987> I<raw> encoding is available as C<kcs5601-raw> with Encode. See L<Encode::KR> for details.

UTF-16 UTF-16BE UTF-16LE

are IANA-registered C<charset>s. See [RFC 2781] for details. Jungshik Shin reports that UTF-16 with a BOM is well accepted
by MS IE 5/6 and NS 4/6. Beware however that

=over 2

=it is

C<UTF-16> support in any software you're going to be using/interoperating with has probably been less tested than C<UTF-8> support

=it is

C<UTF-8> coded data seamlessly passes traditional command piping (C<cat>, C<more>, etc.) while C<UTF-16> coded data is likely to cause confusion (with its zero bytes, for example)

=it is

it is beyond the power of words to describe the way HTML browsers encode non-C<ASCII> form data. To get a general impression, visit L<http://www.alanflavell.org.uk/charset/form-i18n.html>. While encoding of form data has stabilized for C<UTF-8> encoded pages (at least IE 5/6, NS 6, and Opera 6 behave consistently), be sure to expect fun (and cross-browser discrepancies) with C<UTF-16> encoded pages!

=back

The rule of thumb is to use C<UTF-8> unless you know what you're doing and unless you really benefit from using C<UTF-16>.

ISO-IR-165 [RFC1345]
VISCII
GB 12345
GB 18030 (***) (see links bellow)
EUC-TW (***)

are totally valid encodings but not registered at IANA. The names under which they are listed here are probably the most widely-known names for these encodings and are recommended names.

BIG5PLUS (***)

is a proprietary name.

=head2 Microsoft-related naming mess
Microsoft products misuse the following names:

=over 2

=item KS_C_5601-1987

Microsoft extension to C<EUC-KR>.

Proper names: C<CP949>, C<UHC>, C<x-windows-949> (as used by Mozilla).


Encode aliases C<KS_C_5601-1987> to C<cp949> to reflect this common misusage. I<Raw> C<KS_C_5601-1987> encoding is available as C<kcs5601-raw>.

See L<Encode::KR> for details.

=item GB2312

Microsoft extension to C<EUC-CN>.

Proper names: C<CP936>, C<GBK>.

C<GB2312> has been registered in the C<EUC-CN> meaning at IANA. This has partially repaired the situation: Microsoft's C<GB2312> has become a superset of the official C<GB2312>.

Encode aliases C<GB2312> to C<euc-cn> in full agreement with IANA registration. C<cp936> is supported separately. I<Raw> C<GB_2312-80> encoding is available as C<gb2312-raw>.

See L<Encode::CN> for details.

=item Big5

Microsoft extension to C<Big5>.

Proper name: C<CP950>.

Encode separately supports C<Big5> and C<cp950>.

=item Shift_JIS

Microsoft's understanding of C<Shift_JIS>.
JIS has not endorsed the full Microsoft standard however. The official C<Shift_JIS> includes only JIS X 0201 and JIS X 0208 character sets, while Microsoft has always used C<Shift_JIS> to encode a wider character repertoire. See C<IANA> registration for C<Windows-31J>.

As a historical predecessor, Microsoft's variant probably has more rights for the name, though it may be objected that Microsoft shouldn't have used JIS as part of the name in the first place.

Unambiguous name: C<CP932>. C<IANA> name (also used by Mozilla, and provided as an alias by Encode): C<Windows-31J>.

Encode separately supports C<Shift_JIS> and C<cp932>.

=back

=head1 Glossary

=over 2

=item character repertoire

A collection of unique characters. A I<character> set in the strictest sense. At this stage, characters are not numbered.

=item coded character set (CCS)

A character set that is mapped in a way computers can use directly. Many character encodings, including EUC, fall in this category.

=item character encoding scheme (CES)

An algorithm to map a character set to a byte sequence. You don't have to be able to tell which character set a given byte sequence belongs. 7-bit ISO-2022 is a CES but it cannot be a CCS. EUC is an example of being both a CCS and CES.

=item charset (in MIME context)

has long been used in the meaning of C<encoding>, CES.

While the word combination C<character set> has lost this meaning in MIME context since [RFC 2130], the C<charset> abbreviation has retained it. This is how [RFC 2277] and [RFC 2278] bless C<charset>:

This document uses the term "charset" to mean a set of rules for
mapping from a sequence of octets to a sequence of characters, such as the combination of a coded character set and a character encoding scheme; this is also what is used as an identifier in MIME "charset=" parameters, and registered in the IANA charset registry ... (Note that this is NOT a term used by other standards bodies, such as ISO). [RFC 2277]

=item EUC


=item ISO-2022

A CES that was carefully designed to coexist with ASCII. There are a 7 bit version and an 8 bit version.

The 7 bit version switches character set via escape sequence so it cannot form a CCS. Since this is more difficult to handle in programs than the 8 bit version, the 7 bit version is not very popular except for iso-2022-jp, the I<de facto> standard CES for e-mails.

The 8 bit version can form a CCS. EUC and ISO-8859 are two examples thereof. Pre-5.6 perl could use them as string literals.

=item UCS

Short for I<Universal Character Set>. When you say just UCS, it means I<Unicode>.

=item UCS-2

ISO/IEC 10646 encoding form: Universal Character Set coded in two octets.

=item Unicode

A character set that aims to include all character repertoires of the world. Many character sets in various national as well as industrial standards have become, in a way, just subsets of Unicode.

=item UTF

Short for I<Unicode Transformation Format>. Determines how to map a Unicode character into a byte sequence.

=item UTF-16

A UTF in 16-bit encoding. Can either be in big endian or little
The big endian version is called UTF-16BE (equal to UCS-2 + surrogate support) and the little endian version is called UTF-16LE.

See Also

L<Encode>, L<Encode::Byte>, L<Encode::CN>, L<Encode::JP>, L<Encode::KR>, L<Encode::TW>, L<Encode::EBCDIC>, L<Encode::Symbol> L<Encode::MIME::Header>, L<Encode::Guess>

References

ECMA
European Computer Manufacturers Association
L<http://www.ecma.ch>

ECMA-035 (eq C<ISO-2022>)
L<http://www.ecma.ch/ecma1/STAND/ECMA-035.HTM>
The specification of ISO-2022 is available from the link above.

IANA
Internet Assigned Numbers Authority
L<http://www.iana.org/>

Assigned Charset Names by IANA
L<http://www.iana.org/assignments/character-sets>

Most of the C<canonical names> in Encode derive from this list so you can directly apply the string you have extracted from MIME header of mails and web pages.
=item ISO

International Organization for Standardization
L<http://www.iso.ch/>

=item RFC

Request For Comments -- need I say more?
L<http://www.faqs.org/rfcs/>

=item UC

Unicode Consortium
L<http://www.unicode.org/>

=over 2

=item Unicode Glossary

L<http://www.unicode.org/glossary/>

The glossary of this document is based upon this site.

=back

=back

=head2 Other Notable Sites

=over 2

=item czyborra.com

L<http://czyborra.com/>

Contains a lot of useful information, especially gory details of ISO
vs. vendor mappings.

=item CJK.inf

L<http://examples.oreilly.com/cjkvinfo/doc/cjk.inf>

Somewhat obsolete (last update in 1996), but still useful. Also try

You will find brief info on C<EUC-CN>, C<GBK> and mostly on C<GB 18030>.

=item Jungshik Shin's Hangul FAQ

L<http://jshin.net/faq>

And especially its subject 8.

L<http://jshin.net/faq/qa8.html>

A comprehensive overview of the Korean (C<KS */) standards.

=item debian.org: "Introduction to i18n"

A brief description for most of the mentioned CJK encodings is contained in

=back

=head2 Offline sources

=over 2

=item C<CJKV Information Processing> by Ken Lunde

CJKV Information Processing

The modern successor of C<CJK.inf>.

Features a comprehensive coverage of CJKV character sets and encodings along with many other issues faced by anyone trying to better support CJKV languages/scripts in all the areas of information processing.

To purchase this book, visit
L<http://oreilly.com/catalog/9780596514471/>
or your favourite bookstore.

=back

=cut

Found in path(s):
* /opt/cola/permits/1000848976_1646171591.25/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-
  zE3mozfI/Encode-2.51.tar.gz-cosi-expand-archive-Fimf2xiA/Encode-2.51/lib/Encode/Supported.pod
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Encode
no_index:
directory:
  - t
  - inc
requires: {}
version: 2.51

Found in path(s):

No license file was found, but licenses were detected in source scan.

Encode::$_Name_ version 0.1

======

NAME
   Encode::$_Name_ - <describe encoding>

SYNOPSIS
   use Encode::$_Name_;  
   #<put more words here>

ABSTRACT
   <fill this in>

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install
DEPENDENCIES

This module requires perl version 5.7.3 or later.

COPYRIGHT AND LICENCE

Copyright (C) 2002 Your Name <your@address.domain>

This library is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1000848976_1646171591.25/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-
  zE3mozfl/Encode-2.51.tar.gz-cosi-expand-archive-Fimf2xiA/Encode-2.51/Encode/README.e2x

1.1374 libnl3 3.2.28-4.el7
1.1374.1 Available under license :  
  GNU LESSER GENERAL PUBLIC LICENSE  
  Version 2.1, February 1999

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[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it.  You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
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1.1377 jackson-databind 2.10.5

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1380 netty-buffer 4.1.45.Final

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* /opt/ws_local/PERMITS_SQL/1068271477_1594339203.93/0/netty-buffer-4-1-45-final-sources-1-
  jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068271477_1594339203.93/0/netty-buffer-4-1-45-final-sources-1-
  jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

1.1381 msgpack 0.6.8

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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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1.1386 python-backports-ssl-match-hostname 3.5.0.1-1.ph3

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* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-jar/springfox/documentation/spring/web/plugins/JacksonSerializerConvention.java
* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-jar/springfox/documentation/spring/web/PropertySourcedRequestMappingHandlerMapping.java
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* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-jar/springfox/documentation/spring/web/PropertySourcedMapping.java
* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-jar/springfox/documentation/spring/web/plugins/PathAndParametersEquivalence.java

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  jar/springfox/documentation/spring/web/plugins/DefaultConfiguration.java
* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-
  jar/springfox/documentation/spring/web/plugins/Docket.java
* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-
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jar/springfox/documentation/spring/web/json/JsonSerializer.java
* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationTagsReader.java
* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-jar/springfox/documentation/spring/web/json/JacksonModuleRegistrar.java
* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-jar/springfox/documentation/spring/web/SpringGroupingStrategy.java
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* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-jar/springfox/documentation/spring/web/readers/operation/ModelAttributeField.java

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* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationParameterReader.java
* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-jar/springfox/documentation/spring/web/scanners/ApiDescriptionLookup.java
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* /opt/cola/permits/1001071314_1646171619.71/0/springfox-spring-web-2-8-0-sources-
jar/springfox/documentation/spring/web/readers/parameter/ParameterTypeReader.java

1.1389 docker-ce 17.09.1-ce

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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Written by: Philip Hazel
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1.1395 freehep-io 2.2.2

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.1402 redhat-rpm-config 9.1.0 88.el7.centos

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* /opt/cola/permits/209695304_1654022959.2839324/0/redhat-rpm-config-9.1.0-88.el7.centos.src.rpm-cosi-expand-archive-SuPkJAji/redhat-rpm-config.spec
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From: Jiri Benc <jbenc@redhat.com>
Subject: Build correctly with z-stream kernels

In brew, there's usually a newer kernel installed than the one used for installation. Handle this situation correctly by allowing the spec file to define kernel_version to be used in rpm dependencies, while building against a compatible newer (z-stream) kernel.

Signed-off-by: Jiri Benc <jbenc@redhat.com>
---

kmodtool | 31 ++++++++++++++++++++++++++++++++++++---

macros | 2 +--

2 files changed, 29 insertions(+), 4 deletions(-)

--- a/kmodtool
+++ b/kmodtool
@@ -9,6 +9,7 @@

# Copyright (c) 2003-2010 Ville Skyttä <ville.skytta@iki.fi>,
# Thorsten Leemhuis <fedora@leemhuis.info>
# Jon Masters <jcm@redhat.com>
++# Copyright (c) 2012-2013 Jiri Benc <jbenc@redhat.com>
#
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# a copy of this software and associated documentation files (the
@@ -49,9 +50,25 @@

get_kernel_release ()
{
+  if [ -z $1 ]; then
+    uname -r
+    return
+  fi
+  local arch=$arch
+  local verrel=${1%.$arch}
+  local verprefix=${verrel%.*}
+  local versuffix=${verrel#$verprefix}
+  verrel=$(ls -Ud /usr/src/kernels/$verprefix*$versuffix.$arch | sort -V | tail -n 1)
+  verrel=${verrel##*/}
+  [[ -z $verrel ]] && verrel=$1.$arch
+  echo "$verrel"
+
get_verrel ()
{
  - verrel=$(1:-$(uname -r))
+  verrel=$(get_kernel_release "$1")
    verrel=${verrel%..knownvariants/}
}

@@ -61,10 +78,16 @@

print_verrel ()
  echo "${verrel}"
}

+get_verrel_for_deps ()
+{

---
+ verrel_dep=${1:-$(uname -r)}
+ verrel_dep=${verrel_dep/%.5knownvariants/}
+
+ get_variant ()
{
  get_verrel $@
  variant=${1:-$(uname -r)}
  variant=${variant#/verrel?/}
  variant=${variant:/""/}
}
@@ -129,7 +152,7 @@ get_rpmtemplate ()
    echo "%global _use_internal_dependency_generator 0"

    cat <<EOF
-Provides:         kernel-modules >= ${verrel}${dotvariant}
+Provides:         kernel-modules >= ${verrel_dep}${dotvariant}
Provides:         ${kmod_name}-kmod = %{?epoch:%{epoch}:}%{version}-%{release}
Requires(post):   /sbin/depmod
Requires(postun): /sbin/depmod
@@ -206,6 +229,8 @@ print_rpmtemplate ()
    shift
    kver="${1}"
    get_verrel "${1}""
+ get_verrel_for_deps "$1"
+ [ -z $kver ] && kver=${verrel}
    shift
    if [ -z "${kmod_name}" ] ; then
      echo "Please provide the kmodule-name as first parameter." >&2
      --- a/macros
      +++ b/macros
    @@ -218,7 +218,7 @@ package or when debugging this package.\n    then \n    nobuildreqs="yes" \n    fi \n -override_filelist="filelist" override_preamble="preamble" nobuildreqs="buildreqs"
 kmod_version=%kmod_version kmod_release=%kmod_release %kmodtool rpmtemplate %{-n}%-n\%name \%kver \n +override_filelist="filelist" override_preamble="preamble" nobuildreqs="buildreqs"
 kmod_version=%kmod_version kmod_release=%kmod_release %kmodtool rpmtemplate %{-n}%-n\%name \n %
})

#=================================================================================

Found in path(s):
* /opt/cola/permits/209695304_1654022959.2839324/0/redhat-rpm-config-9.1.0-88.el7.centos.src.rpm-cosi-expand-
archive-SuPkJAji/redhat-rpm-config-9.1.0-kmod-brew-build.patch
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* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/IDPType.java
* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/parsers/SAMLConfigParser.java
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* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/idm/resolver/PropertyResolver.java
* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/package-info.java
* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/IdentityURLProviderType.java
* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/KeyProviderType.java
* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/ClaimsProcessorType.java
* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/parsers/STSType.java
* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/ServiceProvidersType.java
* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/TokenProvidersType.java
* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/handler/package-info.java
* /opt/cola/permits/1003069751_1654022944.6225371/0/picketlink-config-2-5-5-sp12-sources-1-
jar/org/picketlink/config/federation/STSType.java
1.1404 jettison 1.1

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  jar/javax/el/MethodNotFoundException.java
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  jar/javax/el/LambdaExpression.java
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  jar/javax/el/ELProcessor.java
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1.1406 hibernate-search-engine 5.10.3.Final

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jar/org/hibernate/search/backend/impl/LocalBackend.java
* /opt/cola/permits/1110675044_1654022837.7950735/0/hibernate-search-engine-5-10-3-final-sources-1-
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jar/org/hibernate/search/bridge/impl/WorkQueueSynchronization.java
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jar/org/hibernate/search/bridge/impl/TikaParseContextProvider.java
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jar/org/hibernate/search/annotations/impl/FilterCacheModeType.java
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jar/org/hibernate/search/bridge/impl/package-info.java
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* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/xml/ConstrainedGetterBuilder.java
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* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/metadata/aggregated/PropertyMetaData.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/metadata/raw/ConstrainedElement.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/metadata/aggregated/ParameterMetaData.java
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* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/constraintvalidators/ModCheckValidator.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/constraintvalidators/ModCheckValidator.java
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* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/validators/br/TituloEleitoral.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/validators/internal/URLValidator.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/validators/br/TituloEleitoral.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/validators/context/ReturnValueTarget.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/validators/context/MethodConstraintMappingContext.java

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*/
/
*/
* Retrieves constraint related meta data for the parameters of the given
* executable.
*
* @param executable The executable of interest.
*
* @return A list with parameter meta data for the given executable.
*/

Found in path(s):
*/
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java
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* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/constraintvalidators/PatternValidator.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/metadata/core/MetaConstraint.java
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* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/constraintvalidators/SizeValidatorForArray.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/util/privilegedactions/NewInstance.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/constraintvalidators/DecimalMaxValidatorForNumber.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-jar/org/hibernate/validator/internal/util/privilegedactions/GetConstructor.java
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  jar/org/hibernate/validator/internal/constraintvalidators/SizeValidatorForArraysOfShort.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-
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* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-
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* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-
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  jar/org/hibernate/validator/internal/engine/ConfigurationImpl.java
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  jar/org/hibernate/validator/internal/util/annotationfactory/AnnotationDescriptor.java
* /opt/cola/permits/1106204258_1654022816.6429286/0/bean-validator-2-3-0-b10-sources-
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go-previous.png
icon-general.png (originally preferences-desktop.png)
icon-language.png (originally preferences-desktop-locale.png)
icon-network.png (originally applications-internet.png)
icon-security.png (originally dialog-warning.png)
icon-stylesheet.png (originally applications-graphics.png)
media-playback-pause.png
media-playback-start.png
process-stop.png
system-search.png
utilities-system-monitor.png
view-refresh.png
window-new.png

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File	Original filename
-----------------------------------------------
zoom-in.png	viewmag+.png
zoom-out.png	viewmag-.png

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JPython was created in late 1997 by Jim Hugunin. Jim was also the primary developer while he was at CNRI. In February 1999 Barry Warsaw took over as primary developer and released JPython version 1.1.

In October 2000 Barry helped move the software to SourceForge where it was renamed to Jython. Jython 2.0 and 2.1 were developed under the Jython specific license below.

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Jikes RVM Addendum.

We have modified Iburg in two ways:
(1) We modified the input patterns it accepts to be consistent with
our intermediate representation.
(2) We modified it to produce Java code instead of C code.
(3) Ian Rogers modified it to improve the quality of the code it generates.

All bug reports related to the use of iburg in building Jikes RVM
should be reported to the Jikes RVM project and _not_ to David
R. Hanson or the iburg project. Please report them using the the
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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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2.5.1  2.5  2007  PSF  yes
2.5.2  2.5.2  2008  PSF  yes

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<th>Original filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>zoom-in.png</td>
<td>viewmag+.png</td>
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<tr>
<td>zoom-out.png</td>
<td>viewmag-.png</td>
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The actual DOM Java Language Binding classes in xml-commons came from:
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The specification of DOM Level 3’s various parts is at:
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The specification of DOM Level 2's various parts is at:
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The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
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The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
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The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5- jar/com/google/common/collection/RegularImmutableAsList.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5- jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5- jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5- jar/com/google/common/collection/ForwardingImmutableSet.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5- jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5- jar/com/google/common/collection/AbstractMultimap.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/Count.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5.jar/com/google/common/primitives/Bytes.java
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 * /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/hash/HashingInputStream.java

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jar/com/google/common/util/concurrent/Monitor.java
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jar/com/google/common/annotations/Beta.java
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jar/com/google/common/collect/ForwardingSortedSetMultimap.java
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jar/com/google/common/hash/HashCode.java
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jar/com/google/common/collect/EmptyImmutableSortedMultiset.java
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jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/collect/RegularContiguousSet.java
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jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/collect/TreeRangeSet.java
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jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-
jar/com/google/common/hash/Murmur3_128HashFunction.java
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jar/com/google/common/hash/HashingOutputStream.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/MapMaker.java
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* /opt/cola/permits/1150909106_1617718339.43/0/guava-16-0-1-sources-5-jar/com/google/common/collect/SparseImmutableTable.java
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 */
* method in OpenJDK 7's java.util.HashMap class.
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1.1419 go-farm 2.0.1

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1.1420 wildfly-microprofile-config-smallrye

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==================

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* /opt/cola/permits/1000522418_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/iterator/IteratorFactory.java
* /opt/cola/permits/1000522418_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/closure/Closure.java
* /opt/cola/permits/1000522418_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/function/closure/InvokableMethod.java
* /opt/cola/permits/1000522418_1646171478.7/0/lambdaj-2-3-3-sources-jar/ch/lambdaj/collection/LambdaGroup.java
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/**
 * Thanks to Mockito guys for some modifications. This class has been further modified for use in lambdaj.
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*/

Found in path(s):
* /opt/cola/permits/1000522418_1646171478.70/lambdaj-2-3-3-sources-jar/ch/lambdaj/proxy/ClassImposterizer.java

1.1429 aesh-readline 1.10

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* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/action/ActionEvent.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/cursor/CursorLocator.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/util/ShortHelper.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/terminal/formatting/TerminalCharacter.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/action/mappings/UpCaseChar.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/terminal/impl/AbstractWindowsTerminal.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/terminal/utils/ShutdownHooks.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/action/mappings/Enter.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/action/mappings/DeleteForwardBigWord.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/action/mappings/MovementAction.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/action/mappings/BackwardWord.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/completion/SimpleCompletionHandler.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/action/mappings/ChangeCaseChar.java
jar/org/aesh/readline/action/mappings/DeletePrevChar.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/action/mappings/MoveBackwardBigWord.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/terminal/impl/NativeSignalHandler.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/action/mappings/ChangeAction.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/terminal/impl/Pty.java

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* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/terminal/impl/SignalHandlers.java

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* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources.jar/org/aesh/readline/action/mappings/EndOfFile.java
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/*
 * This is an implementation of wcwidth() and wcswidth() (defined in
 * IEEE Std 1002.1-2001) for Unicode.
 *
 * http://www.opengroup.org/onlinepubs/007904975/functions/wcwidth.html
 * http://www.opengroup.org/onlinepubs/007904975/functions/wcswidth.html
 *
 * In fixed-width output devices, Latin characters all occupy a single
 * "cell" position of equal width, whereas ideographic CJK characters
 * occupy two such cells. Interoperability between terminal-line
 * applications and (teletype-style) character terminals using the
 * UTF-8 encoding requires agreement on which character should advance
 * the cursor by how many cell positions. No established formal
 * standards exist at present on which Unicode character shall occupy
 * how many cell positions on character terminals. These routines are
 * a first attempt of defining such behavior based on simple rules
 * applied to data provided by the Unicode Consortium.
 *
 * For some graphical characters, the Unicode standard explicitly
 * defines a character-cell width via the definition of the East Asian
 * FullWidth (F), Wide (W), Half-width (H), and Narrow (Na) classes.
 * In all these cases, there is no ambiguity about which width a
 * terminal shall use. For characters in the East Asian Ambiguous (A)
 * class, the width choice depends purely on a preference of backward
 * compatibility with either historic CJK or Western practice.
 * Choosing single-width for these characters is easy to justify as
 * the appropriate long-term solution, as the CJK practice of
 * displaying these characters as double-width comes from historic
 * implementation simplicity (8-bit encoded characters were displayed
 * single-width and 16-bit ones double-width, even for Greek,
 * Cyrillic, etc.) and not any typographic considerations.
 * Much less clear is the choice of width for the Not East Asian

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* (Neutral) class. Existing practice does not dictate a width for any
* of these characters. It would nevertheless make sense
* typographically to allocate two character cells to characters such
* as for instance EM SPACE or VOLUME INTEGRAL, which cannot be
* represented adequately with a single-width glyph. The following
* routines at present merely assign a single-cell width to all
* neutral characters, in the interest of simplicity. This is not
* entirely satisfactory and should be reconsidered before
* establishing a formal standard in this area. At the moment, the
* decision which Not East Asian (Neutral) characters should be
* represented by double-width glyphs cannot yet be answered by
* applying a simple rule from the Unicode database content. Setting
* up a proper standard for the behavior of UTF-8 character terminals
* will require a careful analysis not only of each Unicode character,
* but also of each presentation form, something the author of these
* routines has avoided to do so far.
*
* http://www.unicode.org/unicode/reports/tr11/
*
* Markus Kuhn -- 2007-05-26 (Unicode 5.0)
*
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*
* Latest version: http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c
*/

Found in path(s):
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  jar/org/aesh/readline/util/WcWidth.java
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  jar/org/aesh/readline/cursor/Line.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources-
  jar/org/aesh/readline/cursor/CursorLocation.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources-
  jar/org/aesh/readline/terminal/TerminalDevice.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources-
  jar/org/aesh/readline/Readline.java
* /opt/cola/permits/1003069671_1654022814.519162/0/aesh-readline-1-10-sources-
  jar/org/aesh/readline/cursor/CursorListener.java

1.1430 libxxf86vm 1.1.4-1.el7
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1.1431 undertow-servlet 2.0.13.Final

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 */

/**
 * Servlet specific extension to {link SinglePortConfidentialityHandler}
 *
 * @author <a href="mailto:darran.lofthouse@jboss.com">Darran Lofthouse</a>
 */

/**
 * Use the HttpServerExchange supplied to check if this request is already 'sufficiently' confidential.
 *
 * Here we say 'sufficiently' as sub-classes can override this and maybe even go so far as querying the actual
 * SSLSession.
 *
 * @param exchange - The {link HttpServerExchange} for the request being processed.
 * @return true if the request is 'sufficiently' confidential, false otherwise.
 */

Found in path(s):
* /opt/cola/permits/1110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-
jar/io/undertow/servlet/handlers/security/ServletConfidentialityConstraintHandler.java

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* /opt/cola/permits/1110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/api/InstanceHandle.java
* /opt/cola/permits/1110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/core/Lifecycle.java
* /opt/cola/permits/1110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/api/SessionManagerFactory.java
* /opt/cola/permits/1110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/core/ServletExtensionHolder.java
* /opt/cola/permits/1110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/handlers/FilterHandler.java
* /opt/cola/permits/1110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/core/InMemorySessionManagerFactory.java
* /opt/cola/permits/1110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/spec/UpgradeServletOutputStream.java
* /opt/cola/permits/1110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/spec/WebConnectionImpl.java
* /opt/cola/permits/1110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/api/ThreadSetupAction.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/handlers/security/ServletAuthenticationCallHandler.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/handlers/ServletDispatchingHandler.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/attribute/ServletRequestedSessionIdValidAttribute.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/core/DefaultAuthorizationManager.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/core/DeploymentImpl.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/api/ErrorPage.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/spec/UpgradeServletInputStream.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/api/ConfidentialPortManager.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/handlers/ServletPathMatches.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/attribute/ServletRelativePathAttribute.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/api/FilterInfo.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/sse/ServerSentEvent.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/api/DeploymentInfo.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/core/SecurityActions.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/core/ManagedFilter.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/predicate/FilePredicate.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/attribute/ServletRequestCharacterEncodingAttribute.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/api/ListenerInfo.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/api/InstanceFactory.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/core/MetricsChainHandler.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/spec/SecurityActions.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/UndertowServletLogger.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/util/IteratorEnumeration.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2.0.13-final-sources-1.jar/io/undertow/servlet/UndertowServletMessages.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/attribute/ServletSessionIdAttribute.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/websockets/SecurityActions.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/spec/ServletInputStreamImpl.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/spec/ServletContextImpl.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/api/WebResourceCollection.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/spec/ServletCookieAdaptor.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/spec/SessionCookieConfigImpl.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/spec/ContentTypeInfo.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/Servlets.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/spec/FilterConfigImpl.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/api/Deployment.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/api/ServletDispatcher.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/api/SessionPersistenceManager.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/spec/PartImpl.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/attribute/ServletRequestedSessionIdFromCookieAttribute.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/core/ServletUpgradeListener.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/api/LegacyThreadSetupActionWrapper.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/util/EmptyEnumeration.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/core/SessionListenerBridge.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/util/InMemorySessionPersistence.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1-jar/io/undertow/servlet/api/AuthMethodConfig.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/handlers/ServletPathMatchesData.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/api/TransportGuaranteeType.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/spec/HttpServletRequestImpl.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/api/SingleConstraintMatch.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/api/ThreadSetupHandler.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/core/ManagedListener.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/spec/FilterRegistrationImpl.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/util/ImmediateInstanceFactory.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/spec/PushBuilderImpl.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/attribute/ServletRequestParameterAttribute.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/handlers/ServletRequestContext.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/api/SessionConfigWrapper.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/compat/rewrite/Substitution.java
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* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/api/ClassIntrospecter.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/core/ServletRequestContextThreadSetupAction.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/handlers/ServletHandler.java
* /opt/cola/permits/110676233_1606843341.52/0/undertow-servlet-2-0-13-final-sources-1.jar/io/undertow/servlet/api/DefaultServletConfig.java

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Found in path(s):
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    private static final String noConfidentialPortAvailable = "UT010053: No confidential port is available to redirect the current request.";
    protected String noConfidentialPortAvailableStr() {
        return noConfidentialPortAvailable;
    }
    public final IllegalArgumentException noConfidentialPortAvailable() {
        final IllegalArgumentException result = new IllegalArgumentException(String.format(getLoggingLocale(),
            noConfidentialPortAvailableStr()));
    }

Found in path(s):

1.1432 gtk 3.22.30-5.el7
1.1432.1 Available under license:

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 * /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-
 * jar/org/springframework/web/filter/CharacterEncodingFilter.java
 * /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-
 * jar/org/springframework/web/bind/support/WebBindingInitializer.java
 * /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-
 * jar/org/springframework/web/bind/support/SessionStatus.java
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* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-jar/org/springframework/web/context/request/AbstractRequestAttributes.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-jar/org/springframework/web/filter/Log4jNestedDiagnosticContextFilter.java

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* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources.jar/org/springframework/web/multipart/commons/ CommonsMultipartFile.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources.jar/org/springframework/web/method/annotation/RequestHeaderMethodArgumentResolver.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources.jar/org/springframework/web/context/request/async/CallableProcessingInterceptorAdapter.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources.jar/org/springframework/web/context/support/ServletContextPropertyPlaceholderConfigurer.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources.jar/org/springframework/web/context/request/RequestScope.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources.jar/org/springframework/web/context/request/async/StandardServletAsyncWebRequest.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources.jar/org/springframework/web/context/request/async/DeferredResultInterceptorChain.java
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* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources.jar/org/springframework/web/context/support/ServletContextPropertyPlaceholderConfigurer.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources.jar/org/springframework/web/context/support/ServletContextPropertyPlaceholderConfigurer.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources.jar/org/springframework/web/context/support/ServletContextPropertyPlaceholderConfigurer.java
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  jar/org/springframework/http/server/ServerHttpRequest.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-
  jar/org/springframework/http/HttpRequest.java
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* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4.0.2-release-sources-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
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* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java
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* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-jar/org/springframework/web/client/RequestCallback.java
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* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-jar/org/springframework/remoting/jaxws/SimpleJaxWsServiceExporter.java
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* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-jar/org/springframework/http/client/support/HttpAccessor.java
* /opt/ws_local/PERMITS_SQL/1091709731_1600571963.26/0/spring-web-4-0-2-release-sources-jar/org/springframework/remoting/jaxws/HttpServerJaxWsServiceExporter.java
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* /opt/cola/permits/1001074081_1607080282.86/0/spring-osgi-core-1-2-0-sources-jar/org/springframework/osgi/config/BundleBeanDefinitionParser.java
* /opt/cola/permits/1001074081_1607080282.86/0/spring-osgi-core-1-2-0-sources-jar/org/springframework/osgi/config/ServiceBeanDefinitionParser.java
* /opt/cola/permits/1001074081_1607080282.86/0/spring-osgi-core-1-2-0-sources-jar/org/springframework/osgi/service/importer/support/LocalBundleContext.java
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// more details.

Found in path(s):
* /opt/cola/permits/1106204234_1605323236.01/0/postgresql-42-2-14-jre7-sources-jar/org/postgresql.Driver.java
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Manifest-Version: 1.0
Implementation-Title: PostgreSQL JDBC Driver
Bundle-License: BSD-2-Clause
Implementation-Version: 42.2.14.jre7
Specification-Vendor: Oracle Corporation
Specification-Title: JDBC
Implementation-Vendor-Id: org.postgresql
Specification-Version: 4.1
Implementation-Vendor: PostgreSQL Global Development Group

Found in path(s):
This code is a stripped down version of Robert Harder's Public Domain Base64 implementation. GZIP support, InputStream and OutputStream stuff and some unneeded encode/decode methods have been removed.

-- Original comments follow --

Encodes and decodes to and from Base64 notation.

Change Log:

- v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
- v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
- v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
- v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format ({@code int}s that you "OR" together).
- v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using [.@code decode( String s, boolean gzipCompressed )]. Added the ability to "suspend" encoding in the OutputStream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).
- v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.
- v1.4 - Added helper methods to read/write files.
- v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
- v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
- v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
- v1.3.3 - Fixed I/O streams which were totally messed up.

I am placing this code in the Public Domain. Do with it as you will. This software comes with no guarantees or warranties but with plenty of well-wishing instead! Please visit [http://iharder.net/base64](http://iharder.net/base64) periodically to check for updates or to contribute improvements.
Found in path(s):
* /opt/cola/permits/1106204234_1605323236.01/0/postgresql-42-2-14-jre7-sources-jar/org/postgresql/util/Base64.java
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* /opt/cola/permits/1106204234_1605323236.01/0/postgresql-42-2-14-jre7-sources-jar/org/postgresql/translation/zh_TW.po
* /opt/cola/permits/1106204234_1605323236.01/0/postgresql-42-2-14-jre7-sources-jar/org/postgresql/translation/ja.po
* /opt/cola/permits/1106204234_1605323236.01/0/postgresql-42-2-14-jre7-sources-jar/org/postgresql/translation/pl.po
* /opt/cola/permits/1106204234_1605323236.01/0/postgresql-42-2-14-jre7-sources-jar/org/postgresql/translation/it.po
* /opt/cola/permits/1106204234_1605323236.01/0/postgresql-42-2-14-jre7-sources-jar/org/postgresql/translation/bg.po
* /opt/cola/permits/1106204234_1605323236.01/0/postgresql-42-2-14-jre7-sources-jar/org/postgresql/translation/sr.po
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- web-app_3_0.xsd
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  jar/org/codehaus/plexus/archiver/tar/TarConstants.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-
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* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-
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* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-jar/org/codehaus/plexus/archiver/manager/DefaultArchiverManager.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-jar/org/codehaus/plexus/archiver/manager/NoSuchArchiverException.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-jar/org/codehaus/plexus/archiver/bzip2/BZip2Constants.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-jar/org/codehaus/plexus/archiver/UnixStat.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-jar/org/codehaus/plexus/archiver/zip/ZipExtraField.java

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* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-jar/org/codehaus/plexus/archiver/AbstractUnArchiver.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-jar/org/codehaus/plexus/archiver/gzip/GZipUnArchiver.java
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* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-jar/org/codehaus/plexus/archiver/zip/AbstractZipArchiver.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-jar/org/codehaus/plexus/archiver/jar/ManifestException.java
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  jar/org/codehaus/plexus/archiver/tar/TarEntry.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-
  jar/org/codehaus/plexus/archiver/tar/TarLongFileMode.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-
  jar/org/codehaus/plexus/archiver/war/WarArchiver.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-
  jar/org/codehaus/plexus/archiver/tar/TarInputStream.java
* /opt/cola/permits/1001477393_1606843053.27/0/plexus-archiver-1-0-alpha-7-sources-1-
  jar/org/codehaus/plexus/archiver/tar/TarCompressionMethod.java
1.1453 t-digest 3.2

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* /opt/ws_local/PERMITS_SQL/1023334023_1591385099.21/0/spring-core-5-1-6-release-sources-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
* /opt/ws_local/PERMITS_SQL/1023334023_1591385099.21/0/spring-core-5-1-6-release-sources-jar/org/springframework/core/io/Resource.java
* /opt/ws_local/PERMITS_SQL/1023334023_1591385099.21/0/spring-core-5-1-6-release-sources-jar/org/springframework/core/codec/ResourceEncoder.java
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* /opt/ws_local/PERMITS_SQL/1023334023_1591385099.21/0/spring-core-5-1-6-release-sources-jar/org/springframework/core/io/stream/StreamUtils.java
* /opt/ws_local/PERMITS_SQL/1023334023_1591385099.21/0/spring-core-5-1-6-release-sources-jar/org/springframework/core/io/support/StreamUtils.java

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* /opt/ws_local/PERMITS_SQL/1023334023_1591385099.21/0/spring-core-5-1-6-release-sources-jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java
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* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
  jar/com/google/errorprone/annotations/MustBeClosed.java
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* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
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Bellis, Ray
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Boardman, Spider
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Bowes, Keith
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Braun, Rob
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Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
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Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
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Wilk, Jakub
Winiger, Gary
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Blittermann, Mario
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jackson-jq

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 */

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

http://wiki.apache.org/solr/CommitterInfo
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It specifically implements StAX 1.0 API:

which defines what is closest to being the J2xXE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>.

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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
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Byte Buddy is a code generation and manipulation library for creating and modifying Java classes during the runtime of a Java application and without the help of a compiler.

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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before

<<understanding-analyzers-tokenizers-and-filters.adoc#understanding-analyzers-tokenizers-and-filters,analysis>> is
done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.

Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field.:

[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----

[IMPORTANT]
=====

The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.

=====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., _you cannot_ copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----

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1.1473 python-more-itertools 6.0.0

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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hostname -- set the host name or show the host/domain name

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/**
 * Encodes and decodes to and from Base64 notation.
 *
 * Homepage: http://iharder.net/base64
 *
 * Example:
 *
 * String encoded = Base64.encode( myByteArray );
 *
 * byte[] myByteArray = Base64.decode( encoded );
 *
 * The options parameter, which appears in a few places, is used to pass several pieces of information to the encoder. In the "higher level" methods such as encodeBytes( bytes, options ) the options parameter can be used to indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered dialects.
 *
 * Note, according to RFC3548, Section 2.1, implementations should not add line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines by default.
 */
The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

```java
String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );
```
to compress the data before encoding it and then making the output have newline characters.

Also...

```java
String encoded = Base64.encodeBytes( crazyString.getBytes() );
```

**Change Log:**

- **v2.3.7** - Fixed subtle bug when base 64 input stream contained the value 01111111, which is an invalid base 64 character but should not throw an ArrayIndexOutOfBoundsException either. Led to discovery of mishandling (or potential for better handling) of other bad input characters. You should now get an IOException if you try decoding something that has bad characters in it.
- **v2.3.6** - Fixed bug when breaking lines and the final byte of the encoded string ended in the last column; the buffer was not properly shrunk and contained an extra (null) byte that made it into the string.
- **v2.3.5** - Fixed bug in `@link #encodeFromFile` where estimated buffer size was wrong for files of size 31, 34, and 37 bytes.
- **v2.3.4** - Fixed bug when working with gzipped streams whereby flushing the Base64.OutputStream closed the Base64 encoding (by padding with equals signs) too soon. Also added an option to suppress the automatic decoding of gzipped streams. Also added experimental support for specifying a class loader when using the `@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)` method.
- **v2.3.3** - Changed default char encoding to US-ASCII which reduces the internal Java footprint with its CharEncoders and so forth. Fixed some javadocs that were inconsistent. Removed imports and specified things like `java.io.IOException` explicitly inline.
- **v2.3.2** - Reduced memory footprint! Finally refined the "guessing" of how big the final encoded data will be so that the code doesn't have to create two output arrays: an oversized initial one and then a final, exact-sized one. Big win when using the `@link #encodeBytesToBytes(byte[])` family of methods (and not using the gzip options which uses a different mechanism with streams and stuff).
- **v2.3.1** - Added `@link #encodeBytesToBytes(byte[], int, int, int)` and some similar helper methods to be more efficient with memory by not returning a `String` but just a byte array.
- **v2.3** - This is not a drop-in replacement! This is two years of comments and bug fixes queued up and finally executed. Thanks to everyone who sent me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
- Much bad coding was cleaned up including throwing exceptions where necessary instead of returning null values or something similar. Here are some changes that may affect you:
* Does not break lines, by default. This is to keep in compliance with RFC3548.
* Threw exceptions instead of returning null values. Because some operations
  * (especially those that may permit the GZIP option) use IO streams, there
  * is a possibility of an java.io.IOException being thrown. After some discussion and
  * thought, I've changed the behavior of the methods to throw java.io.IOExceptions
  * rather than return null if ever there's an error. I think this is more
  * appropriate, though it will require some changes to your code. Sorry,
  * it should have been done this way to begin with.
* Removed all references to System.out, System.err, and the like.
* Shame on me. All I can say is sorry they were ever there.
* Throws NullPointerExceptions and IllegalArgumentExceptions as needed
  * such as when passed arrays are null or offsets are invalid.
* Cleaned up as much javadoc as I could to avoid any javadoc warnings.
  * This was especially annoying before for people who were thorough in their
  * own projects and then had gobs of javadoc warnings on this file.
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
  * when using very small files (~<lt; 40 bytes).
* v2.2 - Added some helper methods for encoding/decoding directly from
  * one file to the next. Also added a main() method to support command line
  * encoding/decoding from one file to the next. Also added these Base64 dialects:
* The default is RFC3548 format.
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
  * URL and file name friendly format as described in Section 4 of RFC3548.
  * http://www.faqs.org/rfcs/rfc3548.html
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
  * URL and file name friendly format that preserves lexical ordering as described
  * in http://www.faqs.org/qa/rfc2-1940.html
* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
  * some convenience methods for reading and writing to and from files.
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
  * with other encodings (like EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
  * encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options.
  * Now everything is more consolidated and cleaner. The code now detects
  * when data that's being decoded is gzip-compressed and will decompress it
  * automatically. Generally things are cleaner. You'll probably have to
  * change some method calls that you were making to support the new
  * options format (<tt>int</tt>s that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a
  * byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).
* v1.5 - Output stream pases on flush() command but doesn't do anything itself.
  * This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
  * where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.
* </ul>
* </p>
* I am placing this code in the Public Domain. Do with it as you will.
* This software comes with no guarantees or warranties but with
* plenty of well-wishing instead!
* Please visit http://iharder.net/base64 periodically to check for updates or to contribute improvements.
* </p>
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

Found in path(s):
* /opt/cola/permits/1110677246_1606843651.0/0/resteasy-jaxrs-3-6-1-final-sources-2-
  jar/org/jboss/resteasy/util/Base64.java
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/**
* Any exception thrown by a MessageBodyWriter chain that is not an instance of a WriterException is caught
* by the Resteasy runtime and wrapped with an instance of WriterException.
* If you want to have special exception handling for exceptions thrown by MessageBodyWriters and their
* interceptors, then write an exception
* mapper for WriterException.
* Also, you may extend this class and throw instances of it from your MessageBodyWriters (and interceptors)
* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
* @version $Revision: 1 $
*/

Found in path(s):
* /opt/cola/permits/1110677246_1606843651.0/0/resteasy-jaxrs-3-6-1-final-sources-2-
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/**
 * Any exception thrown by a MessageBodyReader chain that is not an instance of a ReaderException is caught internally
 * by the Resteasy runtime and wrapped with an instance of ReaderException.
 * * If you want to have special exception handling for exceptions thrown by MessageBodyReaders, then write an exception
 * * mapper for ReaderException.
 * * Also, you may extend this class and throw instances of it from your MessageBodyReaders (and interceptors)
 * *
 * @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
 * @version $Revision: 1 $
 */

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* $Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/TypeHandler.java,v 1.2 2002/06/06 22:49:36 bayard Exp $  *
* $Revision: 1.2 $  *
* $Date: 2002/06/06 22:49:36 $  *
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  jar/org/apache/commons/cli/Parser.java
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/*
* $Header: /home/cvs/jakarta-commons-
  sandbox/cli/src/java/org/apache/commons/cli/MissingArgumentException.java,v 1.2 2002/06/06 09:37:26 jstrachan
  Exp $ 
* $Revision: 1.2 $ 
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jar/org/apache/commons/cli/GnuParser.java

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jar/org/apache/commons/cli/OptionGroup.java
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/*/ $Header: /home/cvs/jakarta-commons-
sandbox/cli/src/java/org/apache/commons/cli/MissingOptionException.java,v 1.2 2002/06/06 09:37:26 jstrachan
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* $Date: 2002/06/06 22:50:14 $
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  jar/org/apache/commons/cli/Option.java
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* 22:59:43 jkeyes Exp $
* $Revision: 1.11 $
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 * $Revision: 1.12 $
 * $Date: 2002/10/15 22:50:45 $
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1.2 2002/06/06 22:49:36 bayard Exp $
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* /opt/cola/permits/1147456877_1617040684.68/0/commons-cli-1-0-sources-2-
  jar/org/apache/commons/cli/PatternOptionBuilder.java

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 * $Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/AlreadySelectedException.java,v 1.4 2002/06/06 09:37:26 jstrachan Exp $
 * $Revision: 1.4 $
 * $Date: 2002/06/06 09:37:26 $
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  jar/org/apache/commons/cli/AlreadySelectedException.java
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* $Header: /home/cvs/jakarta-commons-sandbox/cli/src/java/org/apache/commons/cli/ParseException.java,v 1.2
* 2002/06/06 09:37:26 jstrachan Exp $
* $Revision: 1.2 $
* $Date: 2002/06/06 09:37:26 $
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* /opt/cola/permits/1147456877_1617040684.68/0/commons-cli-1-0-sources-2-
  jar/org/apache/commons/cli/ParseException.java
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/*
* SHheader:/home/cvs/jakarta-commons/cli/src/java/org/apache/commons/cli/BasicParser.java,v 1.3 2002/09/19
22:59:43 jkeyes Exp $
* $Revision: 1.3 $
* $Date: 2002/09/19 22:59:43 $
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jar/org/apache/commons/cli/BasicParser.java
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 * Header: /home/cvs/jakarta-commons/cli/src/java/org/apache/commons/cli/CommandLineParser.java,v 1.4
 * 2002/09/19 22:59:43 jkeyes Exp $
 * $Revision: 1.4 $
 * $Date: 2002/09/19 22:59:43 $
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(1)

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(2)

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(3)

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Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF
The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000.

(4) the file com/lowagie/text/pdf/codec/TIFFConstants
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it in new free programs; and that you are informed that you can do  
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rights. These restrictions translate to certain responsibilities for  
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or for a fee, you must give the recipients all the rights that we gave  
you. You must make sure that they, too, receive or can get the source  
code. If you link other code with the library, you must provide  
complete object files to the recipients, so that they can relink them  
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

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Library is used in it and that the Library and its use are covered by
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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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END OF TERMS AND CONDITIONS

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<plejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.
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Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
--------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan

-- Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> ----Original Message-----
> From: cracklib-devel-bounces@li... [mailto:cracklib-devel-bounces@li...]
> On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

Unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which imo is just wrong. It isn't the place of a library to dictate what license they should be using. Thus LGPL-2.1 enters to fill this void.

-Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

----Original Message----
From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
Sent: Monday, October 01, 2007 8:33 PM
To: Neulinger, Nathan
Cc: cracklib-devel@li...; Alec Muffett
Subject: Re: [Cracklib-devel] cracklib license

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec
directly
> and see if he wants to relicense his code as LGPL... but at this
point,
> it was enough to just get it consistent and documented as to what
it was
> released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> > license
> > change until it was mentioned in the latest notes.
> > >=20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
   > > Seems like the ideal thing here would be for you and the other distro
   > > maintainers to get together with Alec in a conversation and come to a
   > > decision as to what licensing scheme y'all want. I haven't really done
   > > much other than cleaning up the packaging and patches and a small
   > > bit of
   > > additional code, so whatever licensing y'all come up with is fine
   > > by me.
   >
   > I am sympathetic. Guys, what do you reckon?
   >
   > What I am hearing so far is that LGPL makes sense, since it can be
   > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable

timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
   > On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
   > > > Seems like the ideal thing here would be for you and the other distro
   > > > maintainers to get together with Alec in a conversation and come to a
   > > > decision as to what licensing scheme y'all want. I haven't really done
   > > > much other than cleaning up the packaging and patches and a small
   > > > bit of
   > > > additional code, so whatever licensing y'all come up with is fine
   > > > by me.
   > >
   >
   >

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> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
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> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
- mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

- mike
CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
  Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
  by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
  by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
  for <nneul@umr.edu>; Mon, 01 Oct 2007 11:59:55 -0000
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
  by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
  for <nneul@neulinger.org>; Mon, 01 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
  id 11cOCX-0004Qt-6L
  for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBBFEBE6E9F@crypticide.com>
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)
----------

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=mike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,

it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

----Original Message-----
From: cracklib-devel-bounces@li...
[mailto:cracklib-devel-bounces@li...] On Behalf Of
Mike Frylinger
Sent: Monday, October 01, 2007 8:15 PM
To: cracklib-devel@li...
Subject: [Cracklib-devel] cracklib license

looks like 2.8.11 is out and marked as "GPL-2" ... releasing
libraries under
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

=mike

Re: [Cracklib-devel] cracklib license
From: Mike Frylinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i didn't notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. It isn't the place of a library to dictate to application writes what license they should be using. Thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Fryisinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
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GPL-2 ... it was a modified artistic license ... i didnt notice the license change until it was mentioned in the latest notes.

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-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.
Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
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> by me.
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
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> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
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> linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
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the change now ?
-mike

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-a

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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> 
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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1.1498 jackson 2.10.0
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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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* /opt/cola/permits/1157317056_1_654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/metamodel/MapAttribute.java
* /opt/cola/permits/1157317056_1_654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/optimisticlock/OptimisticLockException.java
* /opt/cola/permits/1157317056_1_654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/PrePersist.java
* /opt/cola/permits/1157317056_1_654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/JoinColumns.java
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* /opt/cola/permits/1157317056_1_654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/PersistenceUnits.java
* /opt/cola/permits/1157317056_1_654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/EntityNotFoundException.java
* /opt/cola/permits/1157317056_1_654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/criteria/ListJoin.java
* /opt/cola/permits/1157317056_1_654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/MapKey.java
* /opt/cola/permits/1157317056_1_654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/OrderColumn.java
* /opt/cola/permits/1157317056_1_654022855.910856/0/javax-persistence-api-2-2-sources-2-jar/javax/persistence/EntityTransaction.java
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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b) Accompany the work with a written offer, valid for at
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1.1514 commons-beanutils 1.9.3

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ASM: a very small and fast Java bytecode manipulation framework

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* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/tls/BasicCertificateChainCleaner.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/tls/TrustRootIndex.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/tls/TrustRootIndex.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/tls/TrustRootIndex.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/tls/TrustRootIndex.java
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* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2Connection.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2Reader.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2Stream.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2Writer.java

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* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/cache/CacheInterceptor.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/platform/OptionalMethod.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/connection/RealConnection.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/BridgeInterceptor.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/tls/DistinguishedNameParser.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Connection.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Headers.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/tls/CertificateChainCleaner.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/connection/ConnectInterceptor.java

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* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/connection/StreamAllocation.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/io/FileSystem.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/connection/ConnectionSpecSelector.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Cookie.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/cache/FaultHidingSink.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/HttpUrl.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/CookieJar.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/connection/RouteException.java

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* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/HttpHeaders.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http1/Http1Codec.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/HttpCodec.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/util/Util.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2Codec.java
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jar/org/springframework/core/serializer/DefaultSerializer.java
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* /opt/ws_local/PERMITS_SQL/1068290162_1594350281.54/0/spring-core-5-2-2-release-sources-jar/org/springframework/util/PathMatcher.java
* /opt/ws_local/PERMITS_SQL/1068290162_1594350281.54/0/spring-core-5-2-2-release-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
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* /opt/ws_local/PERMITS_SQL/1068290162_1594350281.54/0/spring-core-5-2-2-release-sources-jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java
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/**
 * Checks if the ID/IDREF semantics is associated with this
 * datatype.
 */
This method is introduced to support the RELAX NG DTD compatibility spec. (Of course it's always free to use this method for other purposes.)

If you are implementing a datatype library and have no idea about the "RELAX NG DTD compatibility" thing, just return \texttt{ID_TYPE_NULL} is fine.

@returns

If this datatype doesn't have any ID/IDREF semantics, it returns \texttt{#ID_TYPE_NULL}. If it has such a semantics (for example, XSD:ID, XSD:IDREF and comp:ID type), then it returns \texttt{#ID_TYPE_ID}, \texttt{#ID_TYPE_IDREF} or \texttt{#ID_TYPE_IDREFS}.

1.1536 jboss-transaction-api 1.0.1.Final

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 */

Found in path(s):
* /opt/cola/permits/1110675810_1654022880.0859015/0/jboss-ejb3-ext-api-2-2-0-final-sources-1-jar/org/jboss/ejb3/annotation/RunAsPrincipal.java

1.1538 antlr 3.5.2
1.1538.1 Available under license:
No license file was found, but licenses were detected in source scan.

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*/

group Perl5;

/** The overall file structure of a recognizer; stores methods for rules * and cyclic DFAs plus support code. */

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, 
    docComment, recognizer, 
    name, tokens, tokenNames, rules, cyclicDFAs, 
    bitsets, buildTemplate, buildAST, rewriteMode, profile, 
    backtracking, synpreds, memoize, numRules, 
    fileName, ANTLRVersion, generatedTimestamp, trace, 
    scopes, superClass, literals) ::= 
    <<
    # $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
    <actions.(actionScope).header>

    <@imports>
    <if(TREE_PARSER)>
    <endif>
    <if(backtracking)>
    <endif>
    <@end>

    <docComment>
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
       filterMode, superClass="ANTLR::Runtime::Lexer") ::= <<
package <name>;

use Carp;
use English qw( -no_match_vars ) ;
use Readonly;
use Switch;

use ANTLR::Runtime::BaseRecognizer;
use ANTLR::Runtime::DFA;
use ANTLR::Runtime::NoViableAltException;

use Moose;

extends 'ANTLR::Runtime::Lexer';

Readonly my $HIDDEN => ANTLR::Runtime::BaseRecognizer->HIDDEN;
sub HIDDEN [ $HIDDEN ]

use constant {
    <tokens:{ <it.name> => <it.type>, }; separator="$\n"
};<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif> }}
<actions.lexer.members>

sub BUILD {
    my ($self, $arg_ref) = @_;
    $self->init_dfas();
}

sub get_grammar_file_name {
    return "<fileName>";
}

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="$\n\n">

<synpreds:{p | <lexerSynpred(p)> }>

<cyclicDFAs:{dfa | has 'dfa<dfa.decisionNumber>\';}; separator="$\n">
sub init_dfas {
    my ($self) = @_;

    <cyclicDFAs:{dfa |
       $self->dfa<dfa.decisionNumber>(<name>::DFA<dfa.decisionNumber>-new({ recognizer => $self }));
    }; separator="\n">

    return;
}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

no Moose;
__PACKAGE__->meta->make_immutable();
1;

/perlTypeInitMap ::= [
    "\$":"undef",
    "@": "()",
    "%": "()",
    default: "undef"
]

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
   * for matches. No error can be generated upon error; just rewind, consume
   * a token and then try again. backtracking needs to be set as well.
   * Make rule memoization happen only at levels above 1 as we start mTokens
   * at backtracking==1.
   */
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) { return Token.EOF_TOKEN; }
        token = null;
        channel = Token.DEFAULT_CHANNEL;
        tokenStartCharIndex = input.index();
        tokenStartCharPositionInLine = input.getCharPositionInLine();
        tokenStartLine = input.getLine();
        text = null;
        try {
            int m = input.mark();
            backtracking=1; <! means we won't throw slow exception !>
            failed=false;
            mTokens();
        }

        return token;
backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
 and we set the synpredgate to allow actions at level 1. !>
if ( failed ) {
    input.rewind(m);
    input.consume(); <! advance one char and try again !>
}
else {
    emit();
    return token;
}
catch (RecognitionException re) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}
}
}

public void memoize(IntStream input,
        int ruleIndex,
        int ruleStartIndex)
{
    if ( backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}

>>

actionGate() ::= "$self->state->backtracking==0"

filteringActionGate() ::= "backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
        bitsets, inputStreamType, superClass, filterMode,
        ASTLabelType="Object", labelType, members) ::= <<
package <name>;

use English qw( -no_match_vars ) ;
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::BitSet;
use Moose;

extends '{@superClassName}<superClass>@end';

Readonly my $token_names => [ "\<invalid\>", "\<EOR\>", "\<DOWN\>", "\<UP\>", <tokenNames; separator="", ">
];

use constant {
<tokens:{ <it.name> => <it.type>, }; separator="n">
};

<bitsets:bitset(name={FOLLOW_<it.name>._in_<it.inName><it.tokenIndex>},
    words64=it.bits)>

<scopes:{<if(it.isDynamicGlobalScope)<globalAttributeScope(scope=it)><endif> }}

@members

<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

sub BUILD {
    my ($self, $arg_ref) = @_;;

    <if(backtracking)>
        $self->state->rule_memo({});
    <endif>
}

sub get_token_names {
    return $token_names;
}

sub get_grammar_file_name {
    return "<fileName>";
}

@members

<rules; separator="\n\n">

<synpreds:{p | <synpred(p)>}>}

<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = __PACKAGE__::DFA<dfa.decisionNumber>-new($self);}; separator="n">}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

no Moose;
```perl
__PACKAGE__->meta->make_immutable();
1;
__END__

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="ANTLR::Runtime::Parser", labelType="ANTLR::Runtime::Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ANTLR::Runtime::TokenStream", ...)>
>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="ANTLR::Runtime::TreeParser", members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# $ANTLR start <ruleName>
sub <ruleName>_fragment {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>
<if(trace)>
$self->traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
  eval {
    <block>
  };
$self->traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
  if (SEVAL_ERROR) {
    croak SEVAL_ERROR;
  }
<else>
  <block>
<endif>
}
# $ANTLR end <ruleName>
>>
```
synpred(name) ::= <<
public final boolean <name>() {
    backtracking++;
    @start()
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = !failed;
    input.rewind(start);
    @stop()
    backtracking--;
    failed=false;
    return success;
} 
>>

lexerSynpred(name) ::= <<
synpred(name)
>>

ruleMemoization(name) ::= <<
@if(memoize)
if ( backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue()>; }
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)
if ($self->state->failed) {
    return <ruleReturnResult>;
}
@endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)if (backtracking>0) {failed=true; return <ruleReturnResult>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

# $ANTLR start <ruleName>
# <fileName>:<description>
sub <ruleName>() {
    my ($self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>) = @_;
    <if(trace)>$self->traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    eval {
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp()>
        <(ruleDescriptor.actions.after):execAction()>
    };
    <if(exceptions)>
        <exceptions:{e|<catch(decl=e.decl,action=e.action)><
        >}
    <else>
    <if(!emptyRule)>
        <if(actions.(actionScope).rulecatch)>
            <actions.(actionScope).rulecatch>
        <else>
        my $exception = $EVAL_ERROR;
        if (ref $exception & $exception->isa('ANTLR::Runtime::RecognitionException')) {
            $self->report_error($exception);
            $self->recover($self->input, $exception);
            $exception = undef;
        }
    <endif>
    <endif>
    <endif>
    <if(trace)>$self->traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
    if ($exception) {
        croak $exception;
        #$exception->rethrow();
    }
    <@postamble()>
    return <ruleReturnValue()>
}
# $ANTLR end <ruleName>
>>
catch(decl, action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    my $retval = <returnType()>::new();
    $retval->set_start($self->input->LT(1));<
  <else>
    my $<a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif;>
  <endif>
  <if(memoize)>
    my $<ruleDescriptor.name>_start_index = $self->input->index();
  <endif>
>>

ruleScopeSetUp() ::= <<
  <ruleDescriptor.useScopes:{<it>_stack.push(new <it>_scope());}; separator="\n">
  <ruleDescriptor.ruleScope:{<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
  <ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
  <ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
  <ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels>{my $<it.label.text> = undef;}; separator="\n"
  <ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>{List list_<it.label.text>=null;}; separator="\n"
  <ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
  <ruleDescriptor.ruleListLabels:{ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
  <ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.ruleLabels>{<labelType> <it.label.text>=null;}; separator="\n"
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n
<else>
    my $_type = <ruleName>;
    my $_channel = $self->DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    $self->state->type($_type);
    $self->state->channel($_channel);
    <$ruleDescriptor.actions.after>execAction()>
    <endif>
};
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>

if ($EVAL_ERROR) {
    croak $EVAL_ERROR;
}
#
## $ANTLR end <ruleName>

/** How to generate code for the implicitly-defined lexer grammar rule
 *  that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
sub m_tokens {
    my ($self) = @_;
    <block><\n
// S U B R U L E S

// A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    my $alt<decisionNumber> = <maxAlt>;
    <decls>
    <@predecision()><\n
// Open Source Used In Data Center Network Manager 11.5(1) 14706
switch ($alt<decisionNumber>) {
    <alts:altSwitchCase()>
}  
<@postbranch()>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>::<description>
    my $alt<decisionNumber> = <maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    switch ($alt<decisionNumber>) {
        <alts:altSwitchCase()>
    }
}>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    # <fileName>::<description>
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
}>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    # <fileName>::<description>
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
}>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description)
    ::= <<
        # <fileName>::<description>
        my $cnt<decisionNumber> = 0;
        <decls>
        <$cnt<decisionNumber> = 0;
        <@preloop()>
        LOOP<decisionNumber>:
        while (1) {
            my $alt<decisionNumber> = <maxAlt>;
            <@predecision()>
            <decision>

```
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>::<description>
<decls>
<@preloop()>
LOOP<decisionNumber>:
while (1) {
  my $alt<decisionNumber> = <maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch ($alt<decisionNumber>) {
    <alts:altSwitchCase()>
    else { last LOOP<decisionNumber> }
  }
}
<@postloop()>
>>

closureBlockSingleAlt ::= block

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block

optionalBlockSingleAlt ::= block
/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case $i$ { 
    @$preAlt()$
    $s$t
} $n$
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    # $fileName$:<description>
    { 
        @$declarations()$
        <elements:element()>
        <rew>
        @$cleanup()$
    }
>>

/** What to emit when there is no rewrite. For auto build mode, does nothing. */
noreRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
    @$prematch()$
    $it.el$ $n$
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
    @$label$ =$self$->match($self$->input, $token$, $FOLLOW_$.<token>_<ruleName>$<elementIndex>$);
    @$checkRuleBacktrackFailure()$
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
    <$tokenRef(...)$>
    <$listLabel(elem=label,...)> 
>>
listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);<
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);<
<endif>
$self->match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);<
<endif>
$self->match_range(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= $self->input->LA(1);<
<else>
<label>=(<labelType>)input.LT(1);<
<endif>
<endif>
if ( <s> ) {
$self->input->consume();
<postmatchCode>
<if(!LEXER)>
$self->state->error_recovery(0);<
<endif>
<if(backtracking)>failed=false;<endif>
}
else {
<ruleBacktrackFailure()>
my $mse =
ANTLR::Runtime::MismatchedSetException->new(undef, $self->input);
<@mismatchedSetException()>
<if(LEXER)>
$self->recover($mse);
$mse->throw();
<else>
$mse->throw();
}
matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
  <if(label)>
  int <label>Start = getCharIndex();
  $self->match(<string>); <checkRuleBacktrackFailure()>
  <labelType> <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE,
  Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
  </else>
  $self->match(<string>); <checkRuleBacktrackFailure()><
  <endif>
>>

wildcard(label,elementIndex) ::= <<
  <if(label)>
  <label>=(<labelType>)input.LT(1);<
  </endif>
  matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
  <wildcard(...)>
  <listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = $self->input->LA(1);<
  </endif>
  matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(label, elementIndex)>
>>
/* Match a rule reference by invoking it possibly with arguments
* and a return value or values.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
$self->push_follow($FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
$<label> = $self-><rule.name>({args; separator="", "});<\n>
<else>
$self-><rule.name>({args; separator="", "});<\n>
<endif>
$self->state->_fsp($self->state->_fsp - 1);
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>>

/** A lexer rule reference.
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
$self->m_<rule>({args; separator="", "}); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
$self->m_<rule.name>({args; separator="", "}); <checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
```java
int Start = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<type> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
Start, getCharIndex()-1);
else
match(EOF); <checkRuleBacktrackFailure()>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
<root:element()> <actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
   match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
   <children:element()>
   match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
*  also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) ) {
   <ruleBacktrackFailure()>
   throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
   my $LA<decisionNumber> = $self->input->LA(<k>);
   <edges; separator="nels">
   <if(eotPredictsAlt)>
      $alt<decisionNumber> = <eotPredictsAlt>;
   <else>
      <ruleBacktrackFailure()>
   </if>
>>
```
my $nvae =
ANTLR::Runtime::NoViableAltException->new(
    grammar_decision_description => "<description>",
    decision_number => <decisionNumber>,
    state_number => <stateNumber>,
    input => $self->input,
});
<@
oViableAltException()@
}
croak $nvae;
@end>

/**
* Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<
edges; separator="\els">
@end>

/**
* A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<
edges; separator="\nels">
@end>

/**
* An accept state indicates a unique alternative has been predicted *
*/
dfaAcceptState(alt) ::= "$alt<decisionNumber> = <alt>;

/**
* A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/

dfaEdge(labelExpr, targetState, predicates) ::= <<
  if ((<labelExpr>) <if(predicates)&& (<predicates>)<endif>) {
    <targetState>
  }
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/

dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  switch ( $self->input->LA(<k>) ) {
    <edges; separator="\n"> 
    else {
      <if(eotPredictsAlt)>
        $alt<decisionNumber> = <eotPredictsAlt>; 
      <else>
        <ruleBacktrackFailure()>
        my $nvae = ANTLR::Runtime::NoViableAltException->new({
          grammar_decision_description => "<description>",
          decision_number => <decisionNumber>,
          state_number => <stateNumber>,
          input => $self->input,
        });<\n> 
        #@noViableAltException() 
        croak $nvae;<\n> 
        <endif>
    }
  }
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  switch ( $self->input->LA(<k>) ) {
    <edges; separator="\n"> 
  }
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  switch ( $self->input->LA(<k>) ) {
    <edges; separator="\n"> 
    <if(eotPredictsAlt)>
      else { $alt<decisionNumber> = <eotPredictsAlt> }<\n> 
    <endif>
  }<\n>
dfaEdgeSwitch(labels, targetState) ::= <<
case [labels: { <it> }; separator="", " } { <targetState> }
>>

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
$alt<decisionNumber> = $self->dfa<decisionNumber>-成熟的predict($self->input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
Readonly my $DFA<dfa.decisionNumber>_eot => ANTLR::Runtime::DFA->unpack_rle([<dfa.javaCompressedEOT; separator="", " } ]);
Readonly my $DFA<dfa.decisionNumber>_eof => ANTLR::Runtime::DFA->unpack_rle([<dfa.javaCompressedEOF; separator="", " } ]);
Readonly my $DFA<dfa.decisionNumber>_min => ANTLR::Runtime::DFA->unpack_rle([<dfa.javaCompressedMin; separator="", " } ]);
Readonly my $DFA<dfa.decisionNumber>_max => ANTLR::Runtime::DFA->unpack_rle([<dfa.javaCompressedMax; separator="", " } ]);
Readonly my $DFA<dfa.decisionNumber>_accept => ANTLR::Runtime::DFA->unpack_rle([<dfa.javaCompressedAccept; separator="", " } ]);
Readonly my $DFA<dfa.decisionNumber>_special => ANTLR::Runtime::DFA->unpack_rle([<dfa.javaCompressedSpecial; separator="", " } ]);
Readonly my $DFA<dfa.decisionNumber>_transition => [
<dfa.javaCompressedTransition: [s|ANTLR::Runtime::DFA->unpack_rle([<s; separator="", " } ]); separator="", " } ]];

{ package <name>::DFA<dfa.decisionNumber>;
use ANTLR::Runtime::Class;

use strict;
use warnings;

extends 'ANTLR::Runtime::DFA';
sub BUILD {
    my $self = shift;
    my $param_ref = __PACKAGE__->unpack_params(@_, {spec => [
        {
            name => 'recognizer',
            isa => 'ANTLR::Runtime::BaseRecognizer'
        },
    ]});

    $self->recognizer($param_ref->{recognizer});
    $self->decision_number(<dfa.decisionNumber>);
    $self->eot($DFA<dfa.decisionNumber>_eot);
    $self->eof($DFA<dfa.decisionNumber>_eof);
    $self->min($DFA<dfa.decisionNumber>_min);
    $self->max($DFA<dfa.decisionNumber>_max);
    $self->accept($DFA<dfa.decisionNumber>_accept);
    $self->special($DFA<dfa.decisionNumber>_special);
    $self->transition($DFA<dfa.decisionNumber>_transition);
}

sub get_description {
    return "<dfa.description>";
}

<@errorMethod()>

<if(dfa.specialStateSTs)>
sub special_state_transition {
    my ($self, $param_ref) = unpack_params(@_, {spec => [
        {
            name => 's',
            type => SCALAR,
        },
        {
            name => 'input',
            isa => 'ANTLR::Runtime::IntStream',
        }
    ]});

    my $s = $param_ref->{s};
    my $input = $param_ref->{input};

    switch ($s) {
        <dfa.specialStateSTs:{state |}
case <i0> \{ <! compressed special state numbers 0..n-1 !>
  <state>}; separator="\n"
}

<if(backtracking)>
  if ($self->state->backtracking > 0) {
    $self->state->failed = 1;
    return -1;
  }

my $nvae =
  ANTLR::Runtime::NoViableAltException->new({
    grammar_decision_description => $self->get_description(),
    decision_number => <dfa.decisionNumber>,
    state_number => $s,
    input => $input,
  });

$self->error($nvae);
$nvae->throw();

} <endif>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
  my $input = $self->input;
  my $LA<decisionNumber>_<stateNumber> = $input->LA(1);
  <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    my $index<decisionNumber>_<stateNumber> = $input->index();
    $input->rewind();
  </if>
  s = -1;
  <edges; separator="\n\els">
  <if(semPredState)> <! return input cursor to state before we rewound !>
    input.seek(index<decisionNumber>_<stateNumber>);
  </if>
  if ( s>=0 ) return s;
  break;

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if((<labelExpr>)<if(predicates)&&(<predicates>)<endif>) {s = <targetStateNumber>;}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(<left> & & <right>)"

orPredicates(operands) ::= "(<operands; separator="||">)"

notPredicate(pred) ::= "!(<evalPredicate(....)>"

evalPredicate(pred, description) ::= "<pred>"

evalSynPredicate(pred, description) ::= "<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "$LA<decisionNumber>_<stateNumber> eq <atom>"  

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom, k, atomAsInt) ::= "$self->input->LA(<k>) eq <atom>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <<
(SLA<decisionNumber>_<stateNumber> ge <lower> & & SLA<decisionNumber>_<stateNumber> le <upper>)
>>

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "($self->input->LA(<k>) ge <lower> & & $self->input->LA(<k>) le <upper>)"

setTest(ranges) ::= "<ranges; separator=" || ">"

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
   <scope.attributes:{<it.decl>;}; separator="\n">}

protected Stack <scope.name>_stack = new Stack();<\n>
```java
ruleAttributeScope(scope) ::= <<
  <if(scope.attributes)>
  protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">
  }
  protected Stack <scope.name>_stack = new Stack();
  <endif>
>>

returnType() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <ruleDescriptor.name>_return
  <else>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
  <endif>
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  <referencedRule.name>_return
  <else>
  <if(referencedRule.hasSingleReturnValue)>
  <referencedRule.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
  <endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "undef".
 */
initValue(typeName) ::= <<
  <if(typeName)>
  <perlTypeInitMap.(typeName)>
  <else>
  undef
  <endif>
```
/** Define a rule label including default value */
ruleLabelDef(label) ::= <<<
my $<label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
>>

/** Define a return struct for a rule if the code needs to access its 
* start/stop tokens, tree stuff, attributes, ... Leave a hole for 
* subgroups to stick in members. */
returnScope(scope) ::= <<<
@if(ruleDescriptor.hasMultipleReturnValues)
{
    package <returnType()>;
    use ANTLR::Runtime::Class;

    extends 'ANTLR::Runtime::<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope';

    <scope.attributes:{public <it.decl>;}; separator="\n">{@ruleReturnMembers()}
}
@endIfReturnMembers()
>>

parameterScope(scope) ::= <<<
<scope.attributes:{$<it.name>}; separator="", ">
>>

parameterAttributeRef(attr) ::= "$<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "$<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<<
@if(negIndex)
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
#else
@if(index)
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
#else
((<scope>_scope)<scope>_stack.peek()).<attr.name>
@endIf
@endIf
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<<
@if(negIndex)
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>
#else

<if(index>)
  ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
<else>
  ((<scope>_scope)<scope>_stack.peek()).<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {function.size()}>0 && function::name.equals("foo")? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
    $<scope>.<attr.name>
  <else>
    $<scope>
  <endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name> =<expr>;
  <else>
    $<attr.name> =<expr>;
  <endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name> =<expr>;
  <else>
    $<attr.name> =<expr>;
  <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "$<label>"

/** ids+=ID {ids} or e+=expr {e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
tokenLabelPropertyRef_text(scope,attr) ::= "<$scope>-get_text()"
tokenLabelPropertyRef_type(scope,attr) ::= "<$scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<$scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<$scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<$scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<$scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<$scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "((<labelType>)<$scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<labelType>)<$scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)<$scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= ""<<
    <if(TREE_PARSER)>
        input.getTokenStream().toString(
            input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
            input.getTreeAdaptor().getTokenStopIndex(<scope>.start))
    <else>
        substr($self->input, $<scope>-start, $<scope>-stop)
    <endif>
>>"

ruleLabelPropertyRef_st(scope,attr) ::= "<$scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "$<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<$scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<$scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<$scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<$scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<$scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<$scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= ""<<
    <if(TREE_PARSER)>
        input.getTokenStream().toString(
            input.getTreeAdaptor().getTokenStartIndex(retval.start),
            input.getTreeAdaptor().getTokenStopIndex(retval.start))
    <else>
        input.toString(retval.start,input.LT(-1))
    <endif>
>>"

rulePropertyRef_st(scope,attr) ::= "retval.st"
lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "$_type"
lexerRulePropertyRef_line(scope,attr) ::= "tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "$_channel"
lexerRulePropertyRef_start(scope,attr) ::= "tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_self(scope,attr) ::= "$self"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> ) {
    <action>
}
<else>
if ( backtracking==0 ) {
    <action>
}
<else>
<action>
<endif>
<<

// M I S C (properties, etc...)

codeFileExtension() ::= ".pm"
true() ::= "1"
false() ::= "0"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Perl5/Perl5.stg
No license file was found, but licenses were detected in source scan.

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*/

/*
 * This code generating template and the associated Cpp runtime was produced by:
 * Gokulakannan Somasundaram (heavy lifting from C Run-time by Jim Idle)
 */
cTypeInitMap ::= [
    "int"  : "0", // Integers start out being 0
    "long" : "0", // Longs start out being 0
    "float" : "0.0", // Floats start out being 0
    "double" : "0.0", // Doubles start out being 0
    "bool" : "false", // Booleans start out being Antlr C for false
    "byte" : "0", // Bytes start out being 0
    "short" : "0", // Shorts start out being 0
    "char" : "0" // Chars start out being 0
]

leadIn(type) ::= <<
/** \file
  * This <type> file was generated by $ANTLR version <ANTLRVersion>
  *
  * - From the grammar source file : <fileName>
  * - On : <generatedTimestamp>
  *
  * <if(LEXER)>
  * - for the lexer : <name>Lexer
  * <endif>
  *
  * <if(PARSER)>
  * - for the parser : <name>Parser
  * <endif>
  *
  * <if(TREE_PARSER)>
  * - for the tree parser : <name>TreeParser
  * <endif>
  *
  * Editing it, at least manually, is not wise.
  *
  * C++ language generator and runtime by Gokulakannan Somasundaram ( heavy lifting from C Run-time by Jim Idle )
  *
  */

/** The overall file structure of a recognizer; stores methods for rules
  * and cyclic DFAs plus support code.
  */

outputFile( LEXER,
            PARSER,
            TREE_PARSER,
            actionScope,
            actions,
            docComment,
            recognizer,
            name,
            tokens,
            tokenNames,
            rules,
            cyclicDFAs,
            bitsets,
            buildTemplate,
            buildAST,
            rewriteMode,
            profile,
            backtracking,
            synpreds,
            memoize,
            numRules,
            fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
) ::= <<
<brin("C++ source")>
*/

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<if(actions.(actionScope).header)>

/* ==============================================================
 * This is what the grammar programmer asked us to put at the top of every file.
 */
<actions.(actionScope).header>
/* End of Header action.
 * ==============================================================
 */
<endif>
/* -----------------------------------------
 * Include the ANTLR3 generated header file.
 */
#include    "<name>.hpp"
<if(recognizer.grammar.delegators)>
// Include delegator definition header files
//
<recognizer.grammar.delegators: {g|#include "<g.recognizerName>.hpp" }; separator="n"}
<endif>

<actions.(actionScope).postinclude>
/* ----------------------------------------- */

<docComment>

<if(literals)>

<beginNamespace(actions)>

/** String literals used by <name> that we must do things like MATCHS() with.
 * C will normally just lay down 8 bit characters, and you can use L"xxx" to
 * get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
 * we perform this little trick of defining the literals as arrays of UINT32
 * and passing in the address of these.
 */
<literals:{it | static ANTLR_UCHAR	lit_<i>[]  = <it>;}; separator="n"}>

<endNamespace(actions)>

<endif>

/* ============================================================================= */
/* =============================================================================*/
/* Start of recognizer */

<recognizer>

/* End of code */

headerFileExtension() ::= ".hpp"
beginNamespace(actions) ::= <<
<if(actions.(actionScope).namespace) ::=

<<Open Source Used In Data Center Network Manager 11.5(1) 14728>>
namespace <actions.(actionScope).namespace> {  
<endif>

endNamespace(actions) ::= <<
<iif(actions.(actionScope).namespace)>
}  
<endif>

>>

headerFile( LEXER,
  PARSER,
  TREE_PARSER,
  actionScope,
  actions,
  docComment,
  recognizer,
  name,
  tokens,
  tokenNames,
  rules,
  cyclicDFAs,
  bitsets,
  buildTemplate,
  buildAST,
  rewriteMode,
  profile,
  backtracking,
  synpreds,
  memoize,
  numRules,
  fileName,
  ANTLRVersion,
  generatedTimestamp,
  trace,
  scopes,
  superClass,
  literals
  ) ::=  
<<
<leadIn("C++ header")>
<iif(PARSER)>
* The parser <mainName()>  
<endif>
<iif(LEXER)>
* The lexer <mainName()>  
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()>
<endif>

has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.

* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
*
*/

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// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
// THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#ifdef_<name>_H
#define _<name>_H

<actions.(actionScope).preincludes>

/* =============================================================================
* Standard antlr3 C++ runtime definitions
*/
#include \antlr3.hpp>
/* End of standard antlr 3 runtime definitions */

<actions.(actionScope).includes>

<if(recognizer.grammar.delegates)>
// Include delegate definition header files
//
<recognizer.grammar.delegates: {g#include"<g.recognizerName>.hpp"}; separator="\n">

<endif>

<actions.(actionScope).header>

#ifdef WIN32
// Disable: Unreferenced parameter.- Rules with parameters that are not used
// constant conditional.- ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable- tree rewrite variables declared but not needed
// Unreferenced local variable- lexer rule declares but does not always use _type
// potentially unitialized variable used- retval always returned from a rule
//unreferenced local function has been removed- ususally getTokenNames or freeScope, they can go without warnigns
//
// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
#pragma warning(disable : 4100)
#pragma warning(disable : 4101)
#pragma warning(disable : 4127)
#pragma warning(disable : 4189)
#pragma warning(disable : 4505)
#pragma warning(disable : 4701)
#endif
<if(backtracking)>

/* ========================
* BACKTRACKING IS ENABLED
* ========================
*/

<endif>

<beginNamespace(actions)>
<if(recognizer.grammar.delegators)>
// Include delegator definition classes
//
<recognizer.grammar.delegators: {g|class <g.recognizerName>; }; separator="\n">
<endif>

<actions.(actionScope).traits>
typedef <name>Traits <name>ImplTraits;
<rules:{r | \<if(r.ruleDescriptor.isSynPred)> struct <r.ruleDescriptor.name> {}; \<endif> };
<actions.(actionScope).traits>

class <name>Tokens
{
public:
/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
 *\n *
 * Antlr will define EOF, but we can't use that as it it too common in
 * in C header files and that would be confusing. There is no way to filter this out at the moment
 * so we just undef it here for now. That isn't the value we get back from C recognizers
 * anyway. We are looking for ANTLR_TOKEN_EOF.
 */
enum Tokens
{
EOF_TOKEN = <name>ImplTraits::CommonTokenType::TOKEN_EOF
<tokens:{it | , <it.name> = <it.type> }; separator="\n">
};

/** Context tracking structure for <mainName()> */
/*
class <name> : public <componentBaseType()>, public <name>Tokens
{
public:
typedef <name>ImplTraits ImplTraits;
typedef <name> ComponentType;
typedef ComponentType::StreamType StreamType;
typedef <componentBaseType()> BaseType;
typedef ImplTraits::RecognizerSharedStateType<StreamType> RecognizerSharedStateType;
typedef StreamType InputType;
<if(recognizer.filterMode)>
static const bool IsFiltered = true;
<else>
static const bool IsFiltered = false;
<endif>
private:
<if(recognizer.grammar.delegates)>  
<recognizer.grammar.delegates:>
  [g]<g.recognizerName>* m_<g:delegateName>(); separator="\n">
<endif>
<if(recognizer.grammar.delegators)>  
<recognizer.grammar.delegators:>
  [g]<g.recognizerName>* m_<g:delegateName>(); separator="\n">
<endif>
<scopes:{it | <if(it.isDynamicGlobalScope)}<globalAttributeScopeDecl(it)><endif}>  
<rules:{r |<ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)>}>
private:
<if(recognizer.grammar.delegates)>  
<recognizer.grammar.delegates:>
  [g]<g.recognizerName>* m_<g:delegateName>(); separator="\n">
<endif>
<if(recognizer.grammar.delegators)>  
<recognizer.grammar.delegators:>
  [g]<g.recognizerName>* m_<g:delegateName>(); separator="\n">
<endif>
<scopes:{it | <if(it.isDynamicGlobalScope)}<globalAttributeScopeDecl(it)><endif}>  
<rules:{r |<ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)>}>
public:
<name>(InputType* instream<recognizer.grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>);
<name>(InputType* instream, RecognizerSharedStateType* state<recognizer.grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>);
void init(InputType* instream <recognizer.grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>);

<if(LEXER)>  
<if(recognizer.filterMode)>  
void memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart);
bool alreadyParsedRule(ANTLR_MARKER ruleIndex);
<endif>
<rules:{r |<if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)> m<r.ruleDescriptor.name>( <r.ruleDescriptor.parameterScope:parameterScope()>);<endif}> separator="\n">
<rules:{r |<if(r.ruleDescriptor.isSynPred)> <headerReturnType(ruleDescriptor=r.ruleDescriptor)> msynpred(antlr3::ClassForwarder< <r.ruleDescriptor.name> > <r.ruleDescriptor.parameterScope:parameterScope()>);
  void m<r.ruleDescriptor.name>_fragment (<r.ruleDescriptor.parameterScope:parameterScope()>);<endif}> separator="\n">
<endif>
<if(LEXER)>  
<rules:{r |<if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)> m<r.ruleDescriptor.name>( <r.ruleDescriptor.parameterScope:parameterScope()>);<endif}> separator="\n">
<rules:{r |<if(r.ruleDescriptor.isSynPred)> <headerReturnType(ruleDescriptor=r.ruleDescriptor)> msynpred(antlr3::ClassForwarder< <r.ruleDescriptor.name> > <r.ruleDescriptor.parameterScope:parameterScope()>);
  void m<r.ruleDescriptor.name>_fragment (<r.ruleDescriptor.parameterScope:parameterScope()>);<endif}> separator="\n">
<endif>
separator="\n">
<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>);}; separator="\n">
<endNamespace(actions)>
#endif
/* END - Note:Keep extra line feed to satisfy UNIX systems */
>>
grammarType() ::= <<
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
>>
componentType() ::= <<
  <if(PARSER)>
  <name>ImplTraits::ParserType
  <endif>
  <if(LEXER)>
  <name>ImplTraits::LexerType
  <endif>
  <if(TREE_PARSER)>
  <name>ImplTraits::TreeParserType
  <endif>
>>

componentBaseType() ::= <<
  <if(PARSER)>
  <name>ImplTraits::BaseParserType
  <endif>
  <if(LEXER)>
  <name>ImplTraits::BaseLexerType
  <endif>
  <if(TREE_PARSER)>
  <name>ImplTraits::BaseTreeParserType
  <endif>
>>

streamType() ::= <<
  <if(PARSER)>
  <name>ImplTraits::ParserType::StreamType
  <endif>
  <if(LEXER)>
  <name>ImplTraits::LexerType::StreamType
  <endif>
  <if(TREE_PARSER)>
  <name>ImplTraits::TreeParserType::StreamType
  <endif>
>>

mainName() ::= <<
  <if(PARSER)>
  <name>
  <endif>
  <if(LEXER)>
  <name>
  <endif>
  <if(TREE_PARSER)>
  <name>
  <endif>
headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>")

headerReturnType(ruleDescriptor) ::= <<
  <if(Lexer)>
  <if(!ruleDescriptor.isSynPred)>
    void
  <else>
    <returnType()>
  <endif>
  <else>
    <returnType()>
  <endif>
>>

// Produce the lexer output

//
lexer(  grammar,
  name,
  tokens,
  scopes,
  rules,
  numRules,
  filterMode,
  superClass,
  labelType="ImplTraits::CommonTokenType*") ::= <<
using namespace antlr3;

<beginNamespace(actions)>

<if(filterMode)>

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
* lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
* than just BACKTRACKING. In some cases this might generate code akin to:
* if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
*/
void <name>::memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart)
{
  BaseType* base = this;
  if ( (this->get_backtracking()>1 )
    base->memoize( ruleIndex, ruleParseStart );

}

bool <name>::alreadyParsedRule(ANTLR_MARKER ruleIndex)
**Lexer matching rules end.**

```cpp
// Free the lexers that we delegated to
// functions to. NULL the state so we only free it once.
//
grammar.directDelegates:
   {g|m_<g:delegateName()>::set_lexstate(NULL);
     delete m_<g:delegateName()>; }; separator="\n"
<endif>
}

void <name>::reset()
{
   this->get_rec()->reset();
}

/** rief Name of the grammar file that generated this code */
static const char fileName[] = "<fileName>";
```
/** \brief Return the name of the grammar file that generated this code.
*/
const char* <name>::getGrammarFileName()
{
    return fileName;
}

/** \brief Create a new lexer called <name>
 * 
 * \param[in] instream Pointer to an initialized input stream
 * \return
 *     - Success p<name> initialized for the lex start
 *     - Fail NULL
 */
<name>::<name>(StreamType* instream<br>grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
    :<name>ImplTraits::BaseLexerType(ANTLR_SIZE_HINT, instream, NULL)
{
    // See if we can create a new lexer with the standard constructor
    //
    this->init(instream <grammar.delegators:{g|, <g:delegateName()>}>);
}

/** \brief Create a new lexer called <name>
 * 
 * \param[in] instream Pointer to an initialized input stream
 * \param[state] state Previously created shared recognizer stat
 * \return
 *     - Success p<name> initialized for the lex start
 *     - Fail NULL
 */
<name>::<name>(StreamType* instream, RecognizerSharedStateType* state<br>grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
    :<name>ImplTraits::BaseLexerType(ANTLR_SIZE_HINT, instream, state)
{
    this->init(instream <grammar.delegators:{g|, <g:delegateName()>}>);
}

void <name>::init(StreamType* instream<br>grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
{
    /* -------------------------------------------------------------------
    * Memory for basic structure is allocated, now to fill in
    * in base ANTLR3 structures. We initialize the function pointers
    * for the standard ANTLR3 lexer function set, but upon return
    * from here, the programmer may set the pointers to provide custom
    * implementations of each function.
    *
    * We don't use the macros defined in <name>.h here so you can get a sense
    * of what goes where.
    */
<if(memoize)>
<if(grammar.grammarIsRoot)>
// Create a LIST for recording rule memos.
//
this->setRuleMemo( new IntTrie(15) );/* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>

<if(grammar.directDelegates)>
// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
{g|m_<g:delegateName()> = new <g.recognizerName>(instream, this->get_lexstate(),
this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"
<endif>
<if(grammar.delegators)>
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
{g| m_<g:delegateName()> = <g:delegateName>();}; separator="\n"
<endif>
}

<if(cyclicDFAs)>

/* =========================================================================
* DFA tables for the lexer
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

/* =========================================================================
* End of DFA tables for the lexer
*/
<endif>

/* =========================================================================
* Functions to match the lexer grammar defined tokens from the input stream
*/

<rules; separator="\n\n">

/* =========================================================================
* Lexer matching rules end.
*/
filteringNextToken() ::= <<
  <name>ImplTraits::CommonTokenType*
  <name>ImplTraits::TokenSourceType::nextToken()
{
    LexerType* lexer;
    typename LexerType::RecognizerSharedStateType* state;

    lexer = this->get_super();
    state= lexer->get_lexstate();

    /* Get rid of any previous token (token factory takes care of
     * any deallocation when this token is finally used up.
     */
    state->set_token_present( false );
    state->set_error( false );  /* Start out without an exception*/
    state->set_failedflag(false);

    /* Record the start of the token in our input stream.
     */
    state->set_tokenStartCharIndex( lexer->index() );
    state->set_tokenStartCharPositionInLine( lexer->getCharPositionInLine() );
    state->set_tokenStartLine( lexer->getLine() );
    state->set_text(""");

    /* Now call the matching rules and see if we can generate a new token
     */
  >>
for(;;)
{
if (lexer->LA(1) == ANTLR_CHARSTREAM_EOF)
{
/* Reached the end of the stream, nothing more to do.
*/
CommonTokenType& teof = m_eofToken;

    teof.set_startIndex(lexer->getCharIndex());
    teof.set_stopIndex(lexer->getCharIndex());
    teof.setLine(lexer->getLine());
    return &teof;
}

state->set_token_present(false);
state->set_error(false); /* Start out without an exception*/

ANTLR_MARKER m;

m = this->get_istream()->mark();
state->set_backtracking(1); /* No exceptions */
state->set_failedflag(false);

/* Call the generated lexer, see if it can get a new token together. */
lexer->mTokens();
    state->set_backtracking(0);

    /* mTokens backtracks with synpred at BACKTRACKING==2
and we set the synpredgate to allow actions at level 1. !>

if(state->get_failed())
{
    lexer->rewind(m);
    lexer->consume(); /* advance one char and try again */
}
else
{
    lexer->emit(); /* Assemble the token and emit it to the stream */
    TokenType& tok = state->get_token();
    return &tok;
}
}

>>
/** How to generate a parser */
genericParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    bitsets,
    inputStreamType,
    superClass,
    labelType,
    members,
    rewriteElementType, filterMode,
    ASTLabelType="ImplTraits::TreeType"
) ::= <<
    using namespace antlr3;
    <if(grammar.grammarIsRoot)>
    /** \brief Table of all token names in symbolic order, mainly used for 
       *   error reporting. 
       */
    ANTLR_UINT8* <name>TokenNames[length(tokenNames)+4] = {
        (ANTLR_UINT8*) "\<invalid>",      // String to print to indicate an invalid token */
        (ANTLR_UINT8*) "\<EOR>",
        (ANTLR_UINT8*) "\<DOWN>",
        (ANTLR_UINT8*) "\<UP>",
        <tokenNames:{it |(ANTLR_UINT8*) <it>}; separator="\\n">;
    };
    </endif>

    <@members>
    
    <@end>

    /** \brief Name of the grammar file that generated this code 
    */
    static const char fileName[] = "<fileName>";

    /** \brief Return the name of the grammar file that generated this code. 
    */
    const char* <name>::getGrammarFileName() 
    {
return fileName;
}
/** \brief Create a new <name> parser and return a context for it.
 * 
 * \param[in] instream Pointer to an input stream interface.
 * 
 * \return Pointer to new parser context upon success.
 */
<name>::<name>( StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
<constructorInitializerType("NULL")>
{
// See if we can create a new parser with the standard constructor
//
this->init(instream<grammar.delegators:{g|, <g:delegateName()>}>);
}
/** \brief Create a new <name> parser and return a context for it.
 * 
 * \param[in] instream Pointer to an input stream interface.
 * 
 * \return Pointer to new parser context upon success.
 */
<name>::<name>( StreamType* instream, RecognizerSharedStateType* state<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
<constructorInitializerType("state")>
{
this->init(instream <grammar.delegators:{g|, <g:delegateName()>}>);
}
void <name>::init(StreamType* instream<grammar.delegators:{g|, <g:delegateName()>}>)
{
   <actions.parser.apifuncs>
   <actions.treeparser.apifuncs>
   <if(memoize)>
   <if(grammar.grammarIsRoot)>
   /* Create a LIST for recording rule memos.
   */
   typedef RecognizerSharedStateType::RuleMemoType RuleMemoType;
   this->setRuleMemo( new RuleMemoType(15) );/* 16 bit depth is enough for 32768 rules! */
   <endif>
   <endif>
   <if(grammar.directDelegates)>
   // Initialize the lexers that we are going to delegate some
   // functions to.
   //
   <grammar.directDelegates:
   
   {g|m_<g:delegateName()> = new <g.recognizerName>(instream, this->get_psrstate(),
   this<grammar.delegators:{g|, <g:delegateName()>}>); separator="\n"
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.

<grammar.delegators: {g| m_<g:delegateName()> = <g:delegateName>();}; separator="\n"><endif>

/* Install the token table */
this->get_psrstate()->set_tokenNames(<grammar.composite.rootGrammar.recognizerName>TokenNames);

@debugStuff()}

void <name>::reset()
{
    this->get_rec()->reset();
}

/** Free the parser resources */
@end
@if(grammar.directDelegates)
// Free the parsers that we delegated to functions to.NULL the state so we only free it once.
//
<grammar.directDelegates:
    {g| m_<g:delegateName()>->set_psrstate(NULL);
        delete m_<g:delegateName>();}; separator="\n"><endif>
@if(memoize)
@if(grammar.grammarIsRoot)
if(this->getRuleMemo() != NULL)
{
    delete this->getRuleMemo();
    this->setRuleMemo(NULL);
}
@endif
@endif

/** Return token names used by this <grammarType()> */
* The returned pointer is used as an index into the token names table (using the token number as the index).
* 
* \return Pointer to first char * in the table.
*/

static ANTLR_UINT8** getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

<members>

/* Declare the bitsets 
*/
<bitsets:{it | <bitsetDeclare(bitsetname={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits, traits={ <name>ImplTraits } )>}> |

<if(cyclicDFAs)>

/* DFA tables for the parser */
<if(cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* End of DFA tables for the parser */
<endif>

<if(grammar.delegatedRules)>
// Delegated methods that appear to be a part of this parser
//
<grammar.delegatedRules:{ruleDescriptor |
    <returnType()> <name>::<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>)
    {
        <if(ruleDescriptor.hasReturnValue)>return <endif> m_<ruleDescriptor.grammar:delegateName()>-
    <ruleDescriptor.name>({ <ruleDescriptor.parameterScope.attributes:{a|<a.name> }; separator="", "}); separator="\n"
    
    <endif>
/* End of parsing rules */
*/

/* Syntactic predicates */
<synpreds:{p | <synpred(predname=p)> }>

/* End of syntactic predicates */

constructorInitializerType(rec_state) ::=<<
<if(PARSER)>
 :ImplTraits::BaseParserType(ANTLR_SIZE_HINT, instream, <rec_state>)
<endif>
<if(TREE_PARSER)>
 :ImplTraits::BaseTreeParserType(ANTLR_SIZE_HINT, instream, <rec_state>)
<endif>
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser", labelType="const CommonTokenType*", members=[<actions.parser.members>] ) ::= <<
<beginNamespace(actions)>
<genericParser(inputStreamType="CommonTokenStreamType*", rewriteElementType="TOKEN", ...)>
<endNamespace(actions)>
>>

/** How to generate a tree parser; same as parser except the input stream is a different type. */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
open

numRules,
bitsets,
filterMode,
labelType={<ASTLabelType>},
ASTLabelType="TreeType*",
superClass="TreeParser",
members={<actions.treeparser.members>}
) ::= <<
<beginNamespace(actions)>
<genericParser(inputStreamType="CommonTreeNodeStream*", rewriteElementType="NODE", ...)>
<endNamespace(actions)>
>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*  nor parameters etc.... just give simplest possible method. Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
void <name>::m<ruleName>_fragment( <ruleDescriptor.parameterScope:parameterScope()> )
{
<ruleLabelDefs()>
<ruleLabelInitializations()>
<if(trace)>
ANTLR_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n", this->LT(1),failed,this->get_backtracking() );
<block>
ANTLR_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n", this->LT(1),failed,this->get_backtracking());
<else>
<block>
<endif>
<ruleCleanUp()>
}
// $ANTLR end <ruleName>
>>
synpred(predname) ::= <<
bool <name>::msynpred( antlr3::ClassForwarder< <predname> > )
{
ANTLR_MARKER start;
bool success;
this->inc_backtracking();
<@start()>
start = this->mark();
this->m<predname>_fragment();  // can never throw exception
success = !(this->get_failedflag());
this->rewind(start);
<@stop()>
this->dec_backtracking();
this->set_failedflag(false);
return success;
}

lexerSynpred(predname) ::= <<
<synpred(predname)>
>>

ruleMemoization(rname) ::= <<
<if(memoize)>
if ( (this->get_backtracking()>0) && (this->haveParsedRule(<ruleDescriptor.index>)) )
{
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.start = 0;
<endif>
<endif>
<finalCode(finalBlock=finally)>
<if(!ruleDescriptor.isSynPred)>
<scopeClean()>
<endif>
return <ruleReturnValue>();
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
if  (this->hasException())
{
    goto rule<ruleDescriptor.name>Ex;
}
<if(backtracking)>
if (this->hasFailed())
{
    <scopeClean()>
    @@debugClean()
    
}
return <ruleReturnValue()>

@end

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)
if (this->get_backtracking()>0)
{
    this->set_failedflag( true );
    <scopeClean()>
    return <ruleReturnValue()>
;
}
@end

/** How to generate code for a rule. This includes any return type*
*  data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/**
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
<returnType()>
<name>::<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
@if(trace)ANTLR_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", this->LT(1), this->get_backtracking() );<endif>
<ruleDeclarations()>
<ruleDescriptor.actions.declarations>
<ruleLabelDefs()>
<ruleInitializations()>
<ruleDescriptor.actions.init>
<ruleMemoization(rname=ruleName)>
<ruleLabelInitializations()>

@if(actions.(actionScope).rulecatch)
try {
@else
@if(exceptions)
try {
@end
@end
@if(exceptions)
@end
@end
@preamble()
{

@block


<ruleCleanUp()>

<if(exceptions)>
  <(ruleDescriptor.actions.after):execAfter()>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><ln>}>}
<else>
  <if(!emptyRule)>
    if (this->hasException())
    {
      this->preporterror();
      this->precover();
      <setErrorReturnValue()>
    }
    <if(ruleDescriptor.actions.after)>
      else
      {
        <(ruleDescriptor.actions.after):execAfter()>
      }<ln>
    <endif>
  </if(actions.(actionScope).rulecatch)>
  } <actions.(actionScope).rulecatch>
  <endif>
<endif>

<if(trace)>ANTLR_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", this->LT(1), failed, this->get_backtracking());<endif>
<memoize()>
<if(finally)>
  <finalCode(finalBlock=finally)>
  <endif>
  <scopeClean()>
  <@postamble()>
  return <ruleReturnValue();
}<finalCode(finalBlock) ::= <<
  {<finalBlock>
  }
>*/ SANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
  {
    <finalBlock>
  }
>*/ catch(decl,action) ::= <<
/* catch(decl,action)
ruleDeclarations() ::= <<

<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval(this);
<else>
<if(PARSER)>
 <name>ImplTraits::RuleReturnValueType _antlr_rule_exit(this);
<endif>
<ruleDescriptor.returnScope.attributes:{ a |
 <a.type> <a.name>;
 }>
<endif>
<if(memoize)>
ANTLR_MARKER <ruleDescriptor.name>_StartIndex;
<endif>
>>

ruleInitializations() ::= <<
/* Initialize rule variables */
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.returnScope.attributes:{ a |
 <if(a.initValue)>retval.<a.name> = <a.initValue>;<endif>
 }>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
 <if(a.initValue)><a.name> = <a.initValue>;<endif>
 }>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex = this->index();
<endif>
<ruleDescriptor.useScopes:{it | m_<it>_stack.push(<it>Scope()); }; separator="\n">
<ruleDescriptor.ruleScope:{it | m_<it.name>_stack.push(<it.name>Scope()); }; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
 :{it | labelType <it.label.text> ;}; separator="\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{it | VectorType<const CommonTokenType*> list_<it.label.text> ;}; separator="\n"
ruleLabelInitializations() ::= <<
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels>
 :ruleLabelDef(); separator="\n"
>
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleLabels>
 :{it |<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.charLabels:{it |ANTLR_UINT32 <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.ruleListLabels>
 :{it | ImplTraits::IntTrieType<CommonTokenType>* list_<it.label.text>;}; separator="\n"
>
>>
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it | it.label.text = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {it | delete list_<it.label.text>}; separator="\n"
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( this->get_backtracking() > 0 ) { this->memoize(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

ruleCleanUp() ::= <<

// This is where rules clean up and exit
//
go rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.call_stop_placeholder();\n>
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules, which do not produce tokens.
 */
lexerRule(ruleName, nakedBlock, ruleDescriptor, block, memoize) ::= <<
   // Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
 * 
 * $ANTLR start <ruleName>
 * 
 * Looks to match the characters the constitute the token <ruleName>
 * from the attached input stream.
 * 
 * \remark
 * - lexer->error == true if an exception was thrown.
 */
void <name>::m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
    ANTLR_UINT32 _type;
    <ruleDeclarations()>
    <ruleDescriptor.actions.declarations>
    <lexerRuleLabelDefs()>
    <if(trace)>System.out.println("enter <ruleName> "+(char)this->LA(1)+" line="+ this->getLine()+";"+ this->getCharPositionInLine()+" failed="+failed+" backtracking="+this->get_backtracking());<endif>

    <if(nakedBlock)>
        <ruleMemoization(rname=ruleName)>
        <lexerRuleLabelInit()>
        <ruleDescriptor.actions.init>
    <block><
    <else>
        <ruleMemoization(rname=ruleName)>
        <lexerRuleLabelInit()>
        _type = <ruleName>;

        <ruleDescriptor.actions.init>
    <block>
    this->get_lexstate()->set_type(_type);
    <endif>
    <if(trace)> ANTLR_FPRINTF(stderr, "exit <ruleName> "%c line=%d:%d failed = %d, backtracking =%d\n",this->LA(1),this->getLine(),this->getCharPositionInLine(),failed,this->get_backtracking());<endif>
    <ruleCleanUp>()
/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
* wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
*/
void
<name>::mTokens()
{
    <block>
    goto ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx: ;
}
>>

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>::<description>
    {
        int alt<decisionNumber>=<maxAlt>;
        <decls>
        @@predecision()
        <decision>
        @@postdecision()
        @@prebranch()
        switch (alt<decisionNumber>)
        {
            <alts:{a | <altSwitchCase(i,a)>}>
        }
        @@postbranch()
    }
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    {

ANTLR_UINT32 alt<decisionNumber>;

alt<decisionNumber>=<maxAlt>;

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  {
    int cnt<decisionNumber>=0;
    <decls>
    <@preloop()>
    for (;;)
    {
      int alt<decisionNumber>=<maxAlt>;
      <@predecision()>
      <decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a | <altSwitchCase(i,a)>}>
default:
if ( cnt<decisionNumber> >= 1 )
{
goto loop<decisionNumber>;
}
<ruleBacktrackFailure()>
<earlyExitEx()>
<@earlyExitException()>
goto rule<ruleDescriptor.name>Ex;
}
cnt<decisionNumber>++;
}
loop<decisionNumber>: ;/* Jump to here if this rule does not match */
<@postloop()>
}
>>
earlyExitEx() ::= <<
/* mismatchedSetEx()
*/
new ANTLR_Exception\< <name>ImplTraits, EARLY_EXIT_EXCEPTION, StreamType>( this->get_rec(), "" );
<\n>
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock
/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
for (;;)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a | <altSwitchCase(i,a)>}>
default:

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goto loop<decisionNumber>; /* break out of the loop */
break;
}
}
loop<decisionNumber>: /* Jump out to here if this rule does not match */
@foreachpostloop()
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase(altNum, alt) ::= <<
case <altNum>:
<@prealt()>
<alt>
break;<
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements, altNum, description, autoAST, outerAlt, treeLevel, rew) ::= <<
// <fileName>:<description>
{
<@declarations()>
<@initializations()>
<elements:element()>
<rew>
<@cleanup()>
}
>>

// ELEMENTS
/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element(e) ::= <<
/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  <if(label)><label> = this->matchToken(token, &FOLLOW_token_in_ruleName<elementIndex>);
  <checkRuleBacktrackFailure>()
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRef(...>)
  <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
  list_<label>.push_back(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
  <if(label)>
  <label> = this->LA(1);<
  <endif>
  this->matchc(char);
  <checkRuleBacktrackFailure>()
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = this->LA(1);<
  <endif>
  this->matchRange(<a>, <b>);
  <checkRuleBacktrackFailure>()
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
  <if(label)>
  <if(LEXER)>
  <label>= this->LA(1);<
  <else>
  <label>=(<labelType>) this->LT(1);<
  <endif>
  <endif>
>>
if ( `<s>` )
{
    this->consume();
    <postmatchCode>
    <if(!LEXER)>
        this->set_perror_recovery(false);
    </if>
    <if(backtracking)>
        this->set_failedflag(false);
    </if>
}
else
{
    <ruleBacktrackFailure()>
    <mismatchedSetEx()>
    <@mismatchedSetException()>
    <if(!LEXER)>
        this->recover();
    </if>
    <else>
<! use following code to make it recover inline;
    this->recoverFromMismatchedSet(&FOLLOW_set_in_<ruleName><elementIndex>);
    !>
    <endif>
    goto rule<ruleDescriptor.name>Ex;
} <\n>
>>

mismatchedSetEx() ::= <<
new ANTLR_Exception< ImplTraits, MISMATCHED_SET_EXCEPTION, StreamType>( this->get_rec(), "" );
<if(!PARSER)>
    this->get_exception()->set_expectinSet(NULL);
<! use following code to make it recover inline;
    this->get_exception()->set_expectinSet( &FOLLOW_set_in_<ruleName><elementIndex> );
    !>
<endif>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
<label>Start = this->getCharIndex();
MATCHS(<string>);
wildcard(token,label,elementIndex,terminalOptions) ::= <<
  <if(label)>
  <label>=(<labelType>)this->LT(1);<
  <endif>
  this->matchAnyToken();
  <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <wildcard(...>)
  <listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = this->LA(1);<
  <endif>
  this->matchAny();
  <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...>)
  <listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  this->followPush(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
  <if(label)><label>=<endif><if(scope)>m_<scope:delegateName()>-><endif><rule.name>(<if(args)><args;
separator=", "><endif>);<\n>
this->followPop();
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
ANTLR_MARKER <label>Start<elementIndex> = this->getCharIndex();
<if(scope)>m_<scope:delegateName()>-><endif>m<rule.name>(<if(scope)>m_<scope:delegateName()><endif>
<if(args)>, <endif><args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new CommonTokenType();
<label>->set_type( CommonTokenType::TOKEN_INVALID);
<label>->set_startIndex( <label>Start<elementIndex> );
<label>->set_stopIndex( this->getCharIndex()-1);
<label>->set_input( this->get_input() );
}
<else>
<if(scope)>m_<scope:delegateName()>-><endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
{
ANTLR_UINT32 <label>Start<elementIndex>;
<labelType> <label>;

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<label>Start<elementIndex> = this->getCharIndex();
this->matchc(ANTLR_CHARSTREAM_EOF);
<checkRuleBacktrackFailure>()
<label> = new CommonTokenType();
<label>->set_type( CommonTokenType::TOKEN_EOF );
<label>->set_startIndex(<label>Start<elementIndex>);
<label>->set_stopIndex(this->getCharIndex()-1);
<label>->set_input( this->get_input() );
}
<else>
this->matchc(ANTLR_CHARSTREAM_EOF);
<checkRuleBacktrackFailure>()
<endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( this->LA(1)== CommonTokenType::TOKEN_DOWN ) {
  this->matchToken(CommonTokenType::TOKEN_DOWN, NULL);
  <checkRuleBacktrackFailure()>
  <children:element()>
  this->matchToken(CommonTokenType::TOKEN_UP, NULL);
  <checkRuleBacktrackFailure()>
}
<else>
this->matchToken(CommonTokenType::TOKEN_DOWN, NULL);
<checkRuleBacktrackFailure()>
<children:element()>
this->matchToken(CommonTokenType::TOKEN_UP, NULL);
<checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) )

{<ruleBacktrackFailure()>
 <newFPE(...)>
}

newFPE() ::= <<
 ExceptionBaseType* ex = new ANTLR_Exception<ImplTraits, FAILED_PREDICATE_EXCEPTION, StreamType>( this->get_rec(), "<description>" );
 ex->set_ruleName( ":<ruleName>" );
 <\n>
>>

// F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

{int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
 <edges; separator="\nelse">
 else
 {<if(eotPredictsAlt)>
 alt<decisionNumber>=<eotPredictsAlt>;
 <else>
 <ruleBacktrackFailure()>

 <newNVException()>
 goto rule<ruleDescriptor.name>Ex;

@endif>
 }
 }

>>

newNVException() ::= <<
 ExceptionBaseType* ex = new ANTLR_Exception<ImplTraits, NO_VIABLE_ALT_EXCEPTION, StreamType>( this->get_rec(), "<description>" );
 ex->set_decisionNum( <decisionNumber> );
 ex->set_state( <stateNumber> );
 <@noViableAltException()>
 <\n>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.  

dfaOptionalBlockState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
    {
        int LA<decisionNumber>_<stateNumber> = this->LA(k);
        <edges; separator="\nelse ">
    }
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

dfaLoopbackStateDecls():= <<
    ANTLR_UINT32   LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
    {
        /* dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) */
        int LA<decisionNumber>_<stateNumber> = this->LA(k);
        <edges; separator="\nelse ">
        <if(eotPredictsAlt)>
            <if(!edges)>
                alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
            <else>
                else
                {
                    alt<decisionNumber>=<eotPredictsAlt>;  
                    <\n>
                    <endif>
                <endif>
            <endif>
        <endif>
    }
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
    if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>))
    {
        <targetState>
    }
// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/

dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( this->LA(<k>) )
{
    <edges; separator="\n">
    default:
        <if(eotPredictsAlt)>
            alt<decisionNumber>=<eotPredictsAlt>;
        </if>
        <else>
            <ruleBacktrackFailure()>
            <newNVException()>
            goto rule<ruleDescriptor.name>Ex;<\n>
            <endif>
        }<\n>
}<<

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( this->LA(<k>) )
{
    <edges; separator="\n">
}<<

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( this->LA(<k>) )
{
    <edges; separator="\n">
    <if(eotPredictsAlt)>
        default:
            alt<decisionNumber>=<eotPredictsAlt>;
            break;<\n>
        <endif>
    }<\n>
}<<

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it |case <it>:}; separator="\n">
{
    <targetState>
}<<
break;
>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(this, this->get_rec(), this->get_istream(),
cdfa<decisionNumber>);
<checkRuleBacktrackFailure()>
>>

/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
* which are then used to statically initialize the dfa structure, which means that there
* is no runtime initialization whatsoever, other than anything the C compiler might
* need to generate. In general the C compiler will lay out memory such that there is no
* runtime code required.
*/
cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
*   <dfa.description>
*/
static const ANTLR_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
  {
  <dfa.eot; wrap="\n", separator="", null="-1">
  };
static const ANTLR_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
  {
  <dfa.eof; wrap="\n", separator="", null="-1">
  };
static const ANTLR_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
  {
  <dfa.min; wrap="\n", separator="", null="-1">
  };
static const ANTLR_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
  {
  <dfa.max; wrap="\n", separator="", null="-1">
  };
static const ANTLR_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
  {
  <dfa.accept; wrap="\n", separator="", null="-1">
  };
static const ANTLR_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
  {
  <dfa.special; wrap="\n", separator="", null="-1">
/** Used when there is no transition table entry for a particular state */
static const ANTLR_INT32* dfa<dfa.decisionNumber>_T_empty = NULL;

<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR_INT32 dfa<dfa.decisionNumber>_T[i0][] =
{<table; separator=", ", wrap="\n", null="-1" >
};

/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{<dfa.transitionEdgeTables:{xref|dfa<dfa.decisionNumber>_T<xref>}; separator=", ", wrap="\n", null="NULL" >
};

/*@errorMethod()>
/* Declare tracking structure for Cyclic DFA <dfa.decisionNumber>
*/
class <name>CyclicDFA<dfa.decisionNumber> : public CyclicDFA< <name>ImplTraits, <name> >, public
<name>Tokens
{
public:
typedef CyclicDFA< <name>ImplTraits, <name> > BaseType;
typedef BaseType::ContextType CtxType;

private:
<if(dfa.specialStateSTs)>
//to maintain C-Target compatibility, we need to make some of ctx functions look like member funcs
CtxType*m_ctx;
<endif>

public:
<name>CyclicDFA<dfa.decisionNumber>( ANTLR_INT32decisionNumber
 , const ANTLR_UCHAR*description
 , const ANTLR_INT32* consteot
 , const ANTLR_INT32* consteof
 , const ANTLR_INT32* constmin
 , const ANTLR_INT32* constmax
 , const ANTLR_INT32* constaccept
 , const ANTLR_INT32* constspecial
 , const ANTLR_INT32* const*consttransition)
 :BaseType( decisionNumber, description, eot, eof, min, max, accept,
 special, transition )
ANTLR_UINT32 LA(ANTLR_INT32 i)
{
    return m_ctx->LA(i);
}

template<typename PredType>
bool msynpred(PredType pred)
{
    return m_ctx->msynpred(pred);
}

ANTLR_INT32 specialStateTransition(CtxType * ctx, RecognizerType* recognizer, IntStreamType* is, ANTLR_INT32 s)
{
    ANTLR_INT32 _s;
    m_ctx = ctx;
    _s = s;
    switch (s)
    {
        case <i0>:
    
    <state>]; separator="\n">
    
    <if(backtracking)>
        if (ctx->get_backtracking() > 0)
        {
            ctx->set_failedflag(true);
            return-1;
        }
    
    ExceptionBaseType* ex = new ANTLR_Exception<ImplTraits, NO_VIABLE_ALT_EXCEPTION, StreamType>(recognizer, "<dfa.description>");
ex->set_decisionNum( <dfa.decisionNumber> );
ex->set_state(_s);
<@noViableAltException()>
return -1;
}
@end
};

static <name>CyclicDFA<dfa.decisionNumber> cdfa<dfa.decisionNumber>(
    <dfa.decisionNumber>, /* Decision number of this dfa */
    /* Which decision this represents: */
    (const ANTLR_UCHAR*)"<dfa.description>",
    dfa<dfa.decisionNumber>_eot, /* EOT table */
    dfa<dfa.decisionNumber>_eof, /* EOF table */
    dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
    dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
    dfa<dfa.decisionNumber>_accept,/* Accept table */
    dfa<dfa.decisionNumber>_special,/* Special transition states */
    dfa<dfa.decisionNumber>_transitions/* Table of transition tables */
);

/* End of Cyclic DFA <dfa.decisionNumber> */
--------------
>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{ANTLR_UINT32 LA<decisionNumber>_<stateNumber>;<
ANTLR_MARKER index<decisionNumber>_<stateNumber>;<
LA<decisionNumber>_<stateNumber> = ctx->LA(1);<
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = ctx->index();<
ctx->rewindLast();<
<endif>
s = -1;
<edges; separator="|else >
<if(semPredState)> <! return input cursor to state before we rewound !>
ctx->seek(index<decisionNumber>_<stateNumber>);<
<endif>
if ( s>=0 )
{
return s;
} return s;
} break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>) )
{
    s = <targetStateNumber>;
}<<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<
>>

// D F A  E X P R E S S I O N S

andPredicates(left,right) ::= "((<left>) && (<right>))"

orPredicates(operands) ::= "((<operands:{o|(<o>)}; separator="||">))"

notPredicate(pred) ::= "!(<evalPredicate(pred,{}))"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "this->msynpred( antlr3::ClassForwarder\<<pred>>() )"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "this->LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
((LA<decisionNumber>_<stateNumber> >= <lower>) && (LA<decisionNumber>_<stateNumber> <= <upper>))
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((this->LA(<k>) >=
<lower> && (this->LA(<k>) <= <upper>))

setTest(ranges) ::= "<ranges; separator=" || ">"

// ATTRIBUTES

makeScopeSet() ::= "<
/* makeScopeSet() */
/** Definition of the <scope.name> scope variable tracking
 * structure. An instance of this structure is created by calling
 * <name>_<scope.name>Push(). */
*/
struct <scopeStruct(sname=scope.name,..)>
{
    /* =========================================================================
     * Programmer defined variables...
     */
    /*<scope.attributes:{it |<it.decl>;}; separator="\n">*/
    /* End of programmer defined variables
     */
};
>

globalAttributeScopeDecl(scope) ::= "<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope) */
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= "<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope) */
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeDef(scope) ::= "<
<if(scope.attributes)>
/* globalAttributeScopeDef(scope) */
<endif>
StackType<scopeStruct(sname=scope.name)> > <scopeStack(sname=scope.name)>;

<endif>
>>

ruleAttributeScopeDef(scope) ::= <<
@if(scope.attributes)>
/* ruleAttributeScopeDef(scope) */
@endif
StackType<scopeStruct(sname=scope.name)> > <scopeStack(sname=scope.name,...)>;

<endif>
>>

scopeStruct(sname) ::= <<
<sname>Scope
>>

scopeStack(sname) ::= <<
m_<sname>_stack
>>

returnStructName(r) ::= "<r.name>_return"

returnType() ::= <%
@if(!ruleDescriptor.isSynPred)
@if(!ruleDescriptor.hasMultipleReturnValues)
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
@else
@if(!ruleDescriptor.hasSingleReturnValue)
<ruleDescriptor.singleValueReturnType>
@else
void
@endif
@endif
@endif
@if(!ruleDescriptor.hasMultipleReturnValue)
@endif
@endif
@endif
@endif
@endif
@endif
@endif
@endif
@endif
@endif
@endif
@endif
%@>

/** Generate the C type associated with a single or multiple return value(s).
 */

ruleLabelType(referencedRule) ::= <%
@if(!referencedRule.hasMultipleReturnValues)
<referencedRule.grammar.recognizerName>_<referencedRule.name>_return
@endif
@endif
delegateName(d) ::= \<<
<d.label><else>g<d.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "0".
*/
initValue(typeName) ::= \<<
= <cTypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label) ::= \<<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>; 
typedef<ruleLabelType(referencedRule=label.referencedRule)> RETURN_TYPE_<label.label.text>;\n
>>
/** Rule label default value */
ruleLabelInitVal(label) ::= \<<
>>

ASTLabelType() ::= "<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>TreeType*<endif>"

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= \<<
<if(!ruleDescriptor.isSynPred)>
<if(!TREE_PARSER)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()> : public
$name>ImplTraits::RuleReturnValueType
 |
public:
typedef $name>ImplTraits::RuleReturnValueType BaseType;
<else>
struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()> 
 |
$recognizer.ASTLabelType start;
<name>ImplTraits::<recognizer.ASTLabelType> stop;
@endef
</@ruleReturnMembers()>
<ruleDescriptor.returnScope.attributes:{it |<it.type> <it.name>;} ; separator="\n">

@if(!TREE_PARSER)
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>()
{
}

<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName>()( BaseParserType* parser )
 : BaseType(parser)
{
}

<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName>()( const <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n )
 : BaseType(n)
@if(ruleDescriptor.returnScope.attributes)
, <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>(n.<it.name>) ; separator=",";
@endef
{
}

<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>&
 operator=( const <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n )
{
  BaseType::operator=( n );
<ruleDescriptor.returnScope.attributes:{it | <it.name> = n.<it.name>; } ; separator="\n"> return *this;
}
</else>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName>()( const <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n )
@if(ruleDescriptor.returnScope.attributes)
<ruleDescriptor.returnScope.attributes:{it | <it.name>(n.<it.name>) } ; separator=",";
@endef
{
 start = n.start;
 stop  = n.stop;
}
</ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>&
 operator=( const <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n )
{
 start = n.start;
 stop  = n.stop;
<ruleDescriptor.returnScope.attributes:{it | <it.name> = n.<it.name> ; } ; separator="\n">  
return *this;

</
><
>
<endif>

];<\n></n>

<endif>

<endif>

>>

parameterScope(scope) ::= <<
<scope.attributes:{it |<it.decl>}; separator="",">

>>

parameterAttributeRef(attr) ::= "<attr.name>"

parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>;"

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly
 */

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
  <if(negIndex)>
    m_<scope>_stack.at( m_<scope>_stack.size()-<negIndex>-1).<attr.name>
  <else>
    <if(index)>
      m_<scope>_stack.at(<index>).<attr.name>
    <else>
      m_<scope>_stack.peek().<attr.name>
    </endif>
  </endif>
%

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
  <if(negIndex)>
    m_<scope>_stack.at( m_<scope>_stack.size()-<negIndex>-1).<attr.name> = <expr>;
  <else>
    <if(index)>
      m_<scope>_stack.at(<index>).<attr.name> = <expr>;
    <else>
      m_<scope>_stack.peek().<attr.name> =<expr>;
    </endif>
  </endif>
%

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
*/
* like 

/*
isolatedDynamicScopeRef(scope) ::= 

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<scope>.<attr.name>
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>=<expr>;
<else>
<attr.name>=<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= 

/** ids+=ID [$ids] or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText())"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>->get_type())"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>->get_line())"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>->get_charPositionInLine())"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>->get_channel())"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>->get_tokenIndex())"
tokenLabelPropertyRef_tree(scope,attr) ::= "(<scope>->get_tree())"
tokenLabelPropertyRef_int(scope,attr) ::= "(<name>ImplTraits::ConvertToInt32(<scope>->getText()))"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= "
<if(TREE_PARSER)>
  (this->get_strstream()->toStringSS(<scope>.start, <scope>.start))
<else>
  (this->get_strstream()->toStringTT(<scope>.start, <scope>.stop))
<endif>
"

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>->get_type())"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->get_line())"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->get_charPositionInLine())"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>->get_channel())"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>->get_tokenIndex())"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText())"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "
<if(TREE_PARSER)>
  this->get_input()->toStringSS( this->get_adaptor()->getTokenStartIndex(retval.start), this->get_adaptor()->getTokenStopIndex(retval.start))
<else>
  this->get_strstream()->toStringTT(retval.start, this->LT(-1))
<endif>
"

rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "this->getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "this->get_state()->getTokenStartLine()"
lexerRulePropertyRef_pos(scope,attr) ::= "this->get_state()->getTokenStartCharPositionInLine()"
lexerRulePropertyRef_channel(scope,attr) ::= "this->get_state()->get_channel()"
lexerRulePropertyRef_start(scope,attr) ::= "this->get_state()->getTokenStartCharIndex()"
lexerRulePropertyRef_stop(scope,attr) ::= "(this->getCharIndex()-1)"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= "("+nameImplTraits::ConvertToInt32(<scope>->getText())+")"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= " retval.tree=<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= " retval.st=<expr>;"

/** How to deal with an @after for C targets. Because we cannot rely on
* any garbage collection, after code is executed even in backtracking
* mode. Must be documented clearly.
*/
execAfter(action) ::= <<
{ 
   <action>
}
>>

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> )
{ 
   <action>
}
<else>
if ( BACKTRACKING == 0 )
{ 
   <action>
}
<endif>
<else>
{ 
   <action>
}
<endif>
>>

// M I S C (properties, etc...)

bitsetDeclare(bitsetname, words64, traits) ::= <<
/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR_BITWORD <bitsetname>_bits[] = { <words64:[it ANTLR_UINT64_LIT(<it>)]; separator=", ");
static <traits>::BitsetListType <bitsetname>( <bitsetname>_bits, <length(words64)> );
>>

codeFileExtension() ::= ".cpp"

true_value() ::= "true"
false_value() ::= "false"
*/

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*/

/** Templates for building ASTs during normal parsing.
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */

finishedBacktracking(block) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>

---

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if <actions.(actionScope).synpredgate>:
    <block>
    <else>
    <block>
    <endif>
    <endif>

>>

@ruleBody.setErrorReturnValue() ::= <<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token.label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(>>
<label>(elem=label,>...))>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <%
<super.matchSet(postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>)})}, ...,}>%
matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<matchSet(...)>>
>>
matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|[C)

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
@if(label)>
<label> = self.input.LT(1)<\n>
@endif
<super.matchSet(postmatchCode={<finishedBacktracking({root_0 =
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})}, ...,}>>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)}>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})>
>>
/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.tree})>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(label, {<label>.tree})>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(label, {<label>.tree})>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>>
>>

createNodeFromToken(label,terminalOptions={}) ::= <%
<if(terminalOptions.node)>
<terminalOptions.node>(<label>) <! new MethodNode(IDLabel) !>
<else>
self._adaptor.createWithPayload(<label>)
<endif>
%

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
})>>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python/ASTParser.stg
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*/
/** Templates for building ASTs during tree parsing. */

* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

finishedBacktracking(block) ::= <<
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
  <block>
<else>
  <block>
<endif>
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
  _first_0 = None
  _last = None
>>

/** What to emit when there is no rewrite rule. For auto build */
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<finishedBacktracking({
<if(rewriteMode)>
  retval.tree = _first_0
  if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
    retval.tree = self._adaptor.getParent(retval.tree)
<endif>
})
>>

/** match ^(root children) in tree parser; override here to */
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
  enclosingTreeLevel, treeLevel) ::= <<
  _last = self.input.LT(1)
  _save_last_<treeLevel> = _last
```python
_first_<treeLevel> = None
<if(!rewriteMode)>
root_<treeLevel> = self._adaptor.nil()<
<endif>
</root:element()>
<if(rewriteMode)>
<finishedBacktracking({
<if(root.el.rule)>
if _first_<enclosingTreeLevel> is None:
_first_<enclosingTreeLevel> = <root.el.label>.tree<
<else>
if _first_<enclosingTreeLevel> is None:
_first_<enclosingTreeLevel> = <root.el.label><
<endif>
<endif>
})>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
        self.match(self.input, UP, None)
    </children:element()>
<else>
    self.match(self.input, DOWN, None)
    <children:element()>
        self.match(self.input, UP, None)
    </children:element()>
<endif>
<if(!rewriteMode)>
self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>)<
<endif>
_last = _save_last_<treeLevel>
}
// TOKEN AST STUFF
/** ID! and output=AST (same as plain tokenRef) `cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
_last = self.input.LT(1)
```
/** label+=TOKEN auto construct */
tokenRefAndListLabel(token, label, elementIndex, terminalOptions={}) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<if(!rewriteMode)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking({
if !_first_<treeLevel> is None:
_first_<treeLevel> = <label><
})>
<endif>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token, label, elementIndex, terminalOptions={}) ::= <<
<super.tokenRef(...)>
<_last = self.input.LT(1)
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token, label, elementIndex, terminalOptions={}) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<if(!rewriteMode)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
>>

/** Match . wildcard and auto dup the node/subtree */
 wildcard(token, label, elementIndex, terminalOptions={}) ::= <<
// SET AST
matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
    _last = self.input.LT(1)
    <super.matchSet(postmatchCode={}>
    <if(!rewriteMode)>
        <finishedBacktracking({
            if _first_ is None:
                _first_ = <label>
        })>
    <endif>
    >>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
    <matchSet(...)>
    <noRewrite(...)?> <! set return tree !>
    >>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
    _last = self.input.LT(1)
    <super.matchSet(...)>
    >>

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
    <super.matchSet(postmatchCode={}>
    <if(!rewriteMode)>
        <finishedBacktracking({
            if(terminalOptions.node)
                _tree = <terminalOptions.node>(<label>)
            else
                _tree = self._adaptor.dupNode(<label>)
        })>
    self._adaptor.addChild(root_<treeLevel>, <label>_tree)
    })>
    <endif>
    >>
// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
    _last = self.input.LT(1)
    <super.ruleRef(...)>
    <finishedBacktracking({
        <if(!rewriteMode)>
            self._adaptor.addChild(root_<treeLevel>, <label>.tree)
        <else> <! rewrite mode !>
            if _first_<treeLevel> is None:
                _first_<treeLevel> = <label>.tree
            <endif>
        }>
    )>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
    <ruleRef(...)>
    <listLabel(label, {<label>.tree})>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
    _last = self.input.LT(1)
    <super.ruleRef(...)>
    <if(!rewriteMode)>
        <finishedBacktracking({
            root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
        }>
    )>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
    <ruleRefRuleRoot(...)>
    <listLabel(label, {<label>.tree})>
>>
/** rule when output=AST and tracking for rewrite **/  
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<  
_last = self.input.LT(1)  
<super.ruleRefTrack(...)>  
>>  

/** x+=rule when output=AST and tracking for rewrite **/  
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<  
_last = self.input.LT(1)  
<super.ruleRefTrackAndListLabel(...)>  
>>  

/** ^(rule ...) rewrite */  
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<  
_last = self.input.LT(1)  
<super.ruleRefRootTrack(...)>  
>>  

/** ^(x+=rule ...) rewrite */  
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<  
_last = self.input.LT(1)  
<super.ruleRefRuleRootTrackAndListLabel(...)>  
>>  

/** Streams for token refs are tree nodes now; override to  
* change nextToken to nextNode.  
*/  
createRewriteNodeFromElement(token,scope,terminalOptions={}) ::= <<  
<if(terminalOptions.node)>  
<terminalOptions.node>(stream_<token>.nextNode())  
<else>  
stream_<token>.nextNode()  
<endif>  
>>  

ruleCleanUp() ::= <<  
<super.ruleCleanUp()>  
<if(!rewriteMode)>  
<finishedBacktracking({  
 retval.tree = self._adaptor.rulePostProcessing(root_0)  
 })>  
<endif>  
>>  

Found in path(s):  
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python/ASTTreeParser.stg
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*/

/** Templates for building ASTs during normal parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 *   no label, label, list label  (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */

@rule.setErrorReturnValue() ::= <<
  retval.tree = (<ASTLabelType>)(ADAPTOR->errorNode(ADAPTOR, INPUT, retval.start, LT(-1), EXCEPTION));
>>
// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  <super.tokenRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
  ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
  <if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
  <super.tokenRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <label>_tree = <createNodeFromToken(...)>
  root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
  <if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefBang(...)>
  <listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRef(...)>
  <listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don’t use the region stuff because I need to pass
// different chunks depending on the operator. I don’t like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible—this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
  <super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
  <endif>ADAPTOR->addChild(ADAPTOR, root_0, <createNodeFromToken(...)>;};,...)>;
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)>
>>

matchSetBang(s,label,elementIndex,terminalOptions,postmatchCode) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B)[C]

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
  <if(label)>
  <label>=(<labelType>)LT(1);<\n>
  <endif>
  <super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
  <endif>root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createNodeFromToken(...)>, root_0));};,...)>;
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>ADAPTOR->addChild(ADAPTOR, root_0, <label>.tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_0));
>>
/** x+=rule when output=AST */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRef(...)>
  <listLabelAST(...>)
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRefBang(...)>
  <listLabelAST(...>)
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabelAST(...>)
>>

// WILDCARD AST

wildcard(token, label, elementIndex, terminalOptions) ::= <<
  <super.wildcard(...>)
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
    <label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
    ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
  <if(backtracking)>}<endif>
>>

wildcardBang(token, label, elementIndex, terminalOptions) ::= "<super.wildcard(...)>

wildcardRuleRoot(label, elementIndex) ::= <<
  <super.wildcard(...>)
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
    <label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
    root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
  <if(backtracking)>}<endif>
>>

createNodeFromToken(label, terminalOptions) ::= <<
  <if(terminalOptions.node)
    <terminalOptions.node>New(<label>) <! new MethodNode(IDLabel) !>
  <else>
    (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>))
  <endif>
>>
ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> )
{<
</if>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<
</endif>
retval.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
ADAPTOR->setTokenBoundaries(ADAPTOR, retval.tree, retval.start, retval.stop);
<ruleDescriptor.allTokenRefsInAltsWithRewrites
:[it | if (stream_.<it> != NULL) stream_.<it>->free(stream_.<it>);]; separator="\n">;
<ruleDescriptor.allRuleRefsInAltsWithRewrites
:[it | if (stream_.<it> != NULL) stream_.<it>->free(stream_.<it>);]; separator="\n">;
<if(backtracking)>
]<
</endif>
>>

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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/ASTParser.stg
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*/

/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.StringTemplate;
using Antlr.StringTemplate.Language;
<if(!backtracking)>
using Hashtable = System.Collections.Hashtable;
<endif>
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
private StringTemplate _st;
public StringTemplate Template { get { return _st; } set { _st = value; } }
public override string ToString() { return (Template==null) ? string.Empty : Template.ToString(); }
>>

@genericParser.members() ::= <<
<@super.members()>
protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );

public StringTemplateGroup TemplateLib
{
    get { return this.templateLib; }
    set { this.templateLib = value; }
}

/// "<summary> Allows convenient multi-value initialization:
/// new STAttrMap().Add(...).Add(...)"
/// </summary>
protected class STAttrMap : Hashtable
{
    public STAttrMap Add(string attrName, object value)
    {
        base.Add(attrName, value);
        return this;
}
public STAttrMap Add(string attrName, int value)
{
    base.Add(attrName, value);
    return this;
}

/** x+=rule when output=template */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
    <ruleRef(...)>
    <listLabel(elem=label+".Template",...)>
>>

rewriteTemplate(alts) ::= <<
// TEMPLATE REWRITE
@if(backtracking)>
    if ( <actions.(actionScope).synpredgate> )
    {
        <alts:rewriteTemplateAlt(); separator="else ">
@if(rewriteMode)> <replaceTextInLine()><endif>
    }
    <else>
        <alts:rewriteTemplateAlt(); separator="else ">
@if(rewriteMode)> <replaceTextInLine()><endif>
    <endif>
>>

replaceTextInLine() ::= <<
@if(TREE_PARSER)>
    ((TokenRewriteStream)input.TokenStream).Replace(
        input.TreeAdaptor.GetTokenStartIndex(retval.Start),
        input.TreeAdaptor.GetTokenStopIndex(retval.Start),
        retval.Template);
    @else>
    ((TokenRewriteStream)input).Replace(
        ((IToken)retval.Start).TokenIndex,
        input.LT(-1).TokenIndex,
        retval.Template);
@endif>

rewriteTemplateAlt() ::= <<
// <it.description>
@if(it.pred)>
    if (<it.pred>) {

**Invoke a template with a set of attribute name/value pairs.**
* Set the value of the rule's template *after* having set
* the attributes because the rule's template might be used as
* an attribute to build a bigger template; you get a self-embedded
* template.
*/
rewriteExternalTemplate(name,args) ::= <<
  templateLib.GetInstanceOf("<name>"<if(args)>,
    new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>)
<<
** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
  templateLib.GetInstanceOf(<expr><if(args)>,
    new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>)
<<
** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
  new StringTemplate(templateLib, "<template>"<if(args)>,
    new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>)
<<
** plain -> {foo} action */
rewriteAction(action) ::= <<
  <action>
<<
** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
  (<st>).SetAttribute("<attrName>",<expr>);
<<
/** Translate %{stringExpr} */

actionStringConstructor(stringExpr) ::= <<
  new StringTemplate(templateLib,<stringExpr>)
>>

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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
  jar/org/antlr/codegen/templates/CSHarp2/ST.stg

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 */

/** Template overrides to add debugging to normal Java output;
 * If ASTs are built, then you'll also get ASTDbg.stg loaded.
 */

@outputFile.debugPreprocessor() ::= 
  "#define ANTLR_DEBUG"

@outputFile.imports() ::= 
  <<
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;

@genericParser.members() ::= <<
@if(grammar.grammarIsRoot>
public static readonly string[] ruleNames =
new string[]
{
    "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="", " >
};\n</if>
@if(grammar.grammarIsRoot)>>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
@if(profile>><ctorForProfilingRootGrammar()><else><ctorForRootGrammar()><else>imported grammar !>
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>}>.RuleLevel; } }
public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.IncRuleLevel(); }
public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.DecRuleLevel(); }
<ctorForDelegateGrammar>()
<endif>
@if(profile>><ctorForProfilingRootGrammar()><else><ctorForRootGrammar()><else>imported grammar !>
public override bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
    int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
    ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    return base.AlreadyParsedRule(input, ruleIndex);
}<n>
public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
    ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
    <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    base.Memoize(input, ruleIndex, ruleStartIndex);
}<n>
<endif>
protected virtual bool EvalPredicate( bool result, string predicate )
{
    dbg.SemanticPredicate( result, predicate );
cctorForRootGrammar() ::= <<
    <! bug: can't use <@super.members()> cut-n-paste instead !>
    <! Same except we add port number and profile stuff if root grammar !>
    <actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
        : this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
        {
        }
    <actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, int port,
        RecognizerSharedState state )
        : base( input, state )
        {
        <createListenerAndHandshake()>
        <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state,
            this<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n">;
        <parserCtorBody()>
        <@finally()>
    }\n    >>

ccctorForProfilingRootGrammar() ::= <<
    <! bug: can't use <@super.members()> cut-n-paste instead !>
    <actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
        : this( input, new Profiler(null), new RecognizerSharedState() )
        {
        }
    <actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg,
        RecognizerSharedState state )
        : base( input, dbg, state )
        {
        Profiler p = (Profiler)dbg;
        p.setParser(this);
        <grammar.directDelegates:
            {g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|,
                <g:delegateName()>}> );}; separator="\n">;
        <parserCtorBody()>
        <@finally()>
    }
    >>

    /** Basically we don't want to set any dbg listeners are root will have it. */
    ctorForDelegateGrammar() ::= <<
    <actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg,
        RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
    >>
ctorForPredefinedListener() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg )
</@superClassRef>: base( input, dbg, new RecognizerSharedState() )</@end>
{
@if(profile)
Profiler p = (Profiler)dbg;
p.setParser(this);
@endif
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n">
<parserCtorBody()>
]
>>

createListenerAndHandshake() ::= <<
@if(TREE_PARSER)
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );
@endif
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>

@genericParser.superClassName() ::= "Debug<@super.superClassName()>>"

/*@
* Many of the following rules were merged into CSharp2.stg.
*/
@rule.preamble() ::= <<
if (RuleLevel == 0)
DebugListener.Commence();
IncRuleLevel();
>>
//@rule.preamble() ::= <<
//try
//{
//dbg.EnterRule( GrammarFileName, "<ruleName>" );
//if ( RuleLevel == 0 )
//{
//dbg.Commence();
//}
//IncRuleLevel();
//dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );
//}>

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
DebugListener.Terminate();
>>
//@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);<\n>
//}
//finally
//{
//dbg.ExitRule( GrammarFileName, "<ruleName>" );
//DecRuleLevel();
//if ( RuleLevel == 0 )
//{
//dbg.Terminate();
//}
//}<\n>
//>>

//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

//@enterSubRule() ::= <<
//try
//{
//dbg.EnterSubRule( <decisionNumber> );<\n>
//}>

//@exitSubRule() ::= <<
///
//finally
//{
//\dbg.ExitSubRule( <decisionNumber> );
//}<n>
//>>

//enterDecision() ::= <<
//try
//{
//\dbg.EnterDecision( <decisionNumber> );<n>
//}<n>
//>>

//exitDecision() ::= <<
//}
//finally
//{
//\dbg.ExitDecision( <decisionNumber> );
//}<n>
//>>

//enterAlt(n) ::= "\dbg.EnterAlt( <n> );<n>"

// Region overrides that tell various constructs to add debugging triggers

//@block.predecision() ::= "<enterSubRule()><enterDecision()>"

//@block.postdecision() ::= "<exitDecision()>"

//@block.postbranch() ::= "<exitSubRule()>"

//@ruleBlock.predecision() ::= "<enterDecision()>"

//@ruleBlock.postdecision() ::= "<exitDecision()>"

//@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>

//@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>

//@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

//@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

//@positiveClosureBlock.predecision() ::= "<enterDecision()>"

//@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

//@positiveClosureBlock.earlyExitException() ::=
Found in path(s):

"dbg.RecognitionException( eee<decisionNumber> );\n"

//@closureBlock.preloop() ::= "<enterSubRule()>
"
//@closureBlock.postloop() ::= "<exitSubRule()>
"
//@closureBlock.predecision() ::= "<enterDecision()>
"
//@closureBlock.postdecision() ::= "<exitDecision()>
"
//@altSwitchCase.prealt() ::= "<enterAlt(n=i)>
"
//@element.prematch() ::=
"dbg.Location( <it.line>, <it.pos> );"
//@matchSet.mismatchedSetException() ::= 
"dbg.RecognitionException( mse );"
//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"
//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"

//dfaDecision(decisionNumber,description) ::= <<
//try
//{
//isCyclicDecision = true;
//<super.dfaDecision(...)> 
//}
//catch ( NoViableAltException nvae )
//{
//dbg.RecognitionException( nvae );
//throw nvae;
//}
//>>

//@cyclicDFA.errorMethod() ::= <<
//public override void Error( NoViableAltException nvae )
//{
//((DebugParser)recognizer).dbg.RecognitionException( nvae );
//}
//>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>, "<description>")
>>

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*/

/** Templates for building ASTs during tree parsing.
 * 
 * Deal with many combinations. Dimensions are:
 * 
 * Auto build or rewrite
 * 
 * no label, label, list label (label/no-label handled together)
 * 
 * child, root
 * 
 * token, set, rule, wildcard
 * 
 * Each combination has its own template except that label/no label
 * 
 * is combined into tokenRef, ruleRef, ...
 */

ruleDeclarations() ::= <<
/* Add a variable to track last element matched */
ruleInitializations() ::= <<
<super.ruleInitializations()>
_last = NULL;<
>_first_0 = NULL;<
>>

/** What to emit when there is no rewrite rule. For auto build * mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( ADAPTOR->getParent(ADAPTOR, retval.tree) != NULL && ADAPTOR->isNilNode(ADAPTOR, ADAPTOR->getParent(ADAPTOR, retval.tree)) )
{
    retval.tree = (<ASTLabelType>)ADAPTOR->getParent(ADAPTOR, retval.tree);
}
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to * add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<ASTLabelType>_last = (<ASTLabelType>)LT(1);
{
<ASTLabelType>_save_last_<treeLevel>;
<ASTLabelType>_first_<treeLevel>;
<if(!rewriteMode)>
<ASTLabelType>root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
<if(root.el.rule)>
 if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
 <else>
 if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>;
 <endif>
 <if(backtracking)> { <endif>
 <actionsAfterRoot:element()>
 <if(nullableChildList)>
 if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
   MATCHT(ANTLR3_TOKEN_DOWN, NULL);
   <children:element()>
   MATCHT(ANTLR3_TOKEN_UP, NULL);
 }
 <else>
 MATCHT(ANTLR3_TOKEN_DOWN, NULL);
 <children:element()>
 MATCHT(ANTLR3_TOKEN_UP, NULL);
 <endif>
 <if(!rewriteMode)>
 ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
 <endif>
 _last = _save_last_<treeLevel>;
 } <\n>
 <!-- TOKEN AST STUFF -->

/** ID! and output=AST (same as plain tokenRef) 'cept add *  setting of _last */
 tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
 _last = (<ASTLabelType>)LT(1);
 <super.tokenRef(...)>
 >>

/** ID auto construct */
 tokenRef(token,label,elementIndex,terminalOptions) ::= <<
 _last = (<ASTLabelType>)LT(1);
 <super.tokenRef(...)>
 <if(!rewriteMode)>
 <if(backtracking)> if ( BACKTRACKING ==0 ) { <endif>
 <if(terminalOptions.node)>
 <label>_tree = <terminalOptions.node>New(<label>);
 <else>
 <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
 <endif>
 ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
```c
<if(backtracking)> } </endif>
<else>
<if(backtracking)>if ( BACKTRACKING ==0 ) { <endif>
if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>;
<if(backtracking)> } </endif>
<endif>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)
<listLabel(elem=label,...)
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)
<if(!rewriteMode)
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<if(terminalOptions.node)
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>._tree, root_<treeLevel>);
<if(backtracking)> } </endif>
<endif>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.wildcard(...)
<if(!rewriteMode)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>._tree = (<ASTLabelType>)ADAPTOR->dupTree(ADAPTOR, <label>);
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>._tree);
<if(backtracking)> } </endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel==null ) _first_<treeLevel> = <label>;
```
// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
  <if(terminalOptions.node)>
  _tree = <terminalOptions.node>New(<label>);
  <else>
  _tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
  <endif></
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, _tree);
  <if(backtracking)>
  }<endif>
  }
  ...,)){
  <if(terminalOptions.node)>
  _tree = <terminalOptions.node>New(<label>);
  <else>
  _tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
  <endif>
  root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, _tree, root_<treeLevel>);
  <if(backtracking)>
  }<endif>
  }
  ...)}>>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(...)>}
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(terminalOptions.node)>
  _tree = <terminalOptions.node>New(<label>);
  <else>
  _tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
  <endif>
  root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, _tree, root_<treeLevel>);
  <if(backtracking)>
  }<endif>
  }
  ...)}>>>
// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRef(...)>}
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )
  
  <endif>
  <if(!rewriteMode)>
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>.tree);
  <else>
  if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>.tree;
  <endif>
  <if(backtracking)>}
  
  <endif>
  >>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>}
  <super.listLabelAST(elem=label,...)>}
  >>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRef(...)>}
  <if(!rewriteMode)>
  <if(backtracking)>if ( ( <actions.(actionScope).synpredgate> ) ) root_<treeLevel> =
  ( <ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_<treeLevel>));
  <endif>
  <if(backtracking)>}
  
  <endif>
  >>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>}
  <super.listLabelAST(elem=label,...)>}
  >>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefTrack(...)>}
  >>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
```java
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefRuleRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
*  change nextToken to nextNode. */
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
  <if(terminalOptions.node)>
    <terminalOptions.node>New(stream_<token>->nextNode(stream_<token>))
  <else>
    stream_<token>->nextNode(stream_<token>)
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp(...)>
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) {<
  <if(!ruleDescriptor.isSynPred)>
    retval.stop = LT(-1);<
  <endif>
    retval.tree = (<ASTLabelType>)ADAPTOR->rulePostProcessing(ADAPTOR, root_0);
  <if(backtracking)>
  }
  <endif>
  <ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/ASTTreeParser.stg
```
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group Dbg:

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*/

@parserBody.mixins() ::= <<
iclude ANTLR3::<if(profile)>Profile<else>Debug<endif>::ParserEvents
>>

@parserBody.additionalMembers() ::= <<
@if(grammar.grammarIsRoot)
RULE_NAMES = [ :invalid_rule, <grammar.allImportedRules:{rST}:<rST.name> ]; wrap="\n ", separator=", ">
].freeze
@end
>>

@rule.body() ::= <<
in_rule(grammar_file_name, "<ruleName>") do
@debug_listener.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)

@end

@debug_listener.location(<ruleDescriptor.EORNodule.line>, <ruleDescriptor.EORNodule.column>)
end
>>

// Common debug event triggers used by region overrides below
enterSubRule() ::= <<
in_subrule(<decisionNumber>) do
end
>>

exitSubRule() ::= <<
end
>>

enterDecision() ::= <<
in_decision(<decisionNumber>) do
end
>>

exitDecision() ::= <<
end
>>

tenterAlt(n) ::= <<
in_alternative(<n>)
end
>>

// Region overrides that tell various constructs to add debugging triggers
@block.body() ::= <<
in_subrule(<decisionNumber>) do
@end
end
>>

// @blockBody.predecision() ::= "<enterSubRule()>">
// @blockBody.postdecision() ::= "<exitDecision()>">
// @blockBody.postbranch() ::= "<exitSubRule()>">
@blockBody.decision() ::= <<
in_decision(<decisionNumber>) do
end
>>
<@super.decision()>
end
>>

@ruleBlock.decision() ::= <<
in_decision(<decisionNumber>) do
  <@super.decision()>
end
>>

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n={1})>"

@blockSingleAlt.prealt() ::= "<enterAlt(n={1})>"

@positiveClosureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
  <@super.loopBody()>
end
>>

@positiveClosureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
  <@super.decisionBody()>
end
>>

@positiveClosureBlockLoop.earlyExitException() ::= <<
@debug_listener.recognition_exception(eee)
>>

@closureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
  <@super.loopBody()>
end
>>

@closureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
  <@super.decisionBody()>
end
>>

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@altSwitchCase.prealt() ::= "<enterAlt(altNum)>") // altNum is arg of altSwitchCase

element(e) ::= <<
  @debug_listener.location(<e.line>, <e.pos>) // e is arg of element
  <super.element(e)>
>>

@matchSet.mismatchedSetException() ::= "@debug_listener.recognition_exception(mse)"

@dfaState.noViableAltException() ::= <<
  nvae = NoViableAlternative("<description>", <decisionNumber>, <stateNumber> )
  @debug_listener.recognition_exception(nvae)
  raise( nvae )<\n>
>>

@dfaStateSwitch.noViableAltException() ::= <<
  nvae = NoViableAlternative("<description>", <decisionNumber>, <stateNumber> )
  @debug_listener.recognition_exception(nvae)
  raise( nvae )<\n>
>>

dfaDecision(decisionNumber,description) ::= <<
  begin
  @state.cyclic_decision = true
  <super.dfaDecision(...)>
  rescue ANTLR3::Error::NoViableAlternative => nvae
    @debug_listener.recognition_exception(nvae)
    raise
  end
>>

@cyclicDFA.errorMethod() ::= <<
  def error(nvae)
    @recognizer.debug_listener.recognition_exception(nvae)
    super
  end
>>

//** Force predicate validation to trigger an event */
 evalPredicate(pred,description) ::= <<
   predicate?("<description>") { <pred> }
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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/

parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
partial void InitializeTreeAdaptor();
protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
{
get
{
    return adaptor;
}
set
{
    <if(grammar.grammarIsRoot)>
        this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
    <else>
        this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
    </endif>
    <grammar.directDelegates:{g|<g:delegateName()> .TreeAdaptor = this.adaptor;}> |
} \n
>>

parserCtorBody() ::= <<
    <super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
    DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,
        <if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif> );
    DebugListener = proxy;
    <inputStreamType> = new Debug<inputStreamType>( input, proxy );
    try
    {
        proxy.Handshake();
    }
    catch ( IOException ioe )
    {
        ReportError( ioe );
    }
>>

@ctorForRootGrammar.finally() ::= <<
    ITreeAdaptor adap = new CommonTreeAdaptor();
    TreeAdaptor = adap;
    proxy.TreeAdaptor = adap;
>>

@ctorForProfilingRootGrammar.finally() ::=<<
    ITreeAdaptor adap = new CommonTreeAdaptor();
    TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= ": base( input, dbg )"
@ctorForPredefinedListener.finally() ::=<<
@if(grammar.grammarIsRoot)<! don’t create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
@endif>
>>

//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp3/ASTDbg.stg
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/Dbg.stg
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/** The API version of the runtime that recognizers generated by this runtime need. */
apiVersion() ::= "1"

/** The overall file structure of a recognizer; stores methods for rules and cyclic DFAs plus support code. */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals) ::= <<<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<! <docComment> !>

# for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

# token types
<tokens:{it | <it.name>=<it.type>}; separator="\n">

<recognizer>

<if(actions.(actionScope).main)>
<actions.(actionScope).main>
<else>
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
<if(LEXER)>
    from antlr3.main import LexerMain
    main = LexerMain(<recognizer.name>)
<endif>
<if(PARSER)>
    from antlr3.main import ParserMain
    main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)
<endif>
<if(TREE_PARSER)>
    from antlr3.main import WalkerMain
    main = WalkerMain(<recognizer.name>)
<endif>
main.stdin = stdin
main.stdout = stdout
main.stderr = stderr
main.execute(argv)
<endif>
if __name__ == '__main__':
    main(sys.argv)

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode,
      labelType="CommonToken", superClass="Lexer") ::= <<
<grammar.directDelegates:
  {g|from <g.recognizerName> import <g.recognizerName>}; separator="\n"> class <grammar.recognizerName>(<@superClassName><superClass><@end>):
  <scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>grammarFileName = "<fileName>"
  api_version = <apiVersion()>  
def __init__(self<grammar.delegators:{g|, <g:delegateName()>}>, input=None, state=None):
    if state is None:
      state = RecognizerSharedState()
      super(<grammar.recognizerName>, self).__init__(input, state)
  <if(memoize)>  
  <if(grammar.grammarIsRoot)>      self._state.ruleMemo = {}
  </if>  
  </if>  
  <grammar.directDelegates:
    {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input,
      state)}; separator="\n">  
  <grammar.directDelegates:
    {g|<g.delegates:{h|self.<h:delegateName()> = self.<g:delegateName()>.<h:delegateName>()}; separator="\n">  
  <grammar.delegators:
    {g|self.<g:delegateName>() = <g:delegateName()>}; separator="\n">  
  <last(grammar.delegators):
    {g|self.gParent = <g:delegateName()>}; separator="\n">  
  self.delegates = [<grammar.delegates: {g|self.<g:delegateName()}>; separator = ", "]
  <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">  
  <actions.lexer.init>
  <actions.lexer.members>
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
def nextToken(self):
    while True:
        if self.input.LA(1) == EOF:
            return self.makeEOFToken()

        self._state.token = None
        self._state.channel = DEFAULT_CHANNEL
        self._state.tokenStartCharIndex = self.input.index()
        self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
        self._state.tokenStartLine = self.input.line
        self._state._text = None
        try:
            m = self.input.mark()
            try:
                # means we won't throw slow exception
                self._state.backtracking = 1
                try:
                    self.mTokens()
                finally:
                    self._state.backtracking = 0
            except BacktrackingFailed:
                # mTokens backtracks with synpred at backtracking==2
                # and we set the synpredgate to allow actions at level 1.
                self.input.rewind(m)
                self.input.consume() # advance one char and try again
        finally:
            self._state.backtracking = 0

>>
else:
    self.emit()
    return self._state.token

except RecognitionException, re:
    # shouldn't happen in backtracking mode, but...
    self.reportError(re)
    self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        super(<grammar.recognizerName>, self).memoize(input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return super(<grammar.recognizerName>, self).alreadyParsedRule(input, ruleIndex)
    return False

>>

actionGate() ::= "self._state.backtracking == 0"

filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */

genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, labelType, members,
    rewriteElementType, filterMode, init, ASTLabelType="Object") ::= <<
    <if(grammar.grammarIsRoot)>
    # token names
tokenNames = [
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",
        <tokenNames; wrap, separator=", ">
    ]
    <else>
    from <grammar.composite.rootGrammar.recognizerName> import tokenNames
    <endif>
    <scopes:[it]<if(it.isDynamicGlobalScope)<globalAttributeScopeClass(scope=it)><endif>>
    <grammar.directDelegates:
        {g|from <g.recognizerName> import <g.recognizerName>}; separator=""}>
    <rules:[it]<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)> ]>
class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    grammarFileName = "<fileName>
    api_version = <apiVersion()>
    tokenNames = tokenNames

    def __init__(<grammar.delegators:{g|, <g:delegateName()}>}, input, state=None, *args, **kwargs):
        if state is None:
            state = RecognizerSharedState()

        <@args()>
        super(<grammar.recognizerName>, self).__init__(input, state, *args, **kwargs)

        <if(memoize)>
        <if(grammar.grammarIsRoot)>
            self._state.ruleMemo = {}<endif>
        <endif>
        <endif>

        <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">
        <scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif> }>
        <rules:{it | <ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)> }>

        <init>

        <grammar.delegators:>
        {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n"
        <grammar.directDelegates:>
        {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input, state)}; separator="\n"
        <grammar.directDelegates:>
        {g|h|self.<h:delegateName()> = self.<g:delegateName()>.<h:delegateName()>}; separator="\n"
        <last(grammar.delegators):>
        {g|self.gParent = self.<g:delegateName()}>; separator="\n"
        self.delegates = [<grammar.delegates: {g|self.<g:delegateName()>}; separator = ", ">]

        <@init><@end>

        <@members><@end>

        <members>

        <rules; separator="\n\n">

        <! generate rule/method definitions for imported rules so they...
appear to be defined in this recognizer. !>
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">

<synpreds:{p | <synpred(p)> }>

<cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>

<bitsets:{it | FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{it | <it>;separator="", "}]<\n>}>)

>>

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope()>):
<\>
   <if(ruleDescriptor.hasReturnValue)>return
<endif>
   self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<if(ruleDescriptor.parameterScope)
   <ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator="", "}><\n>})

>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
   ASTLabelType="Object", superClass="Parser", labelType="Token",
   members={<actions.parser.members>},
   init={<actions.parser.init}>)
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
   "TokenStream", superClass, 
   labelType, members, "Token",
   false, init, ASTLabelType)>

>>

/** How to generate a tree parser; same as parser except the input
*  stream is a different type.
*/

treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
   numRules, bitsets, filterMode, labelType=[<ASTLabelType>], ASTLabelType="Object",
   superClass={<if(filterMode)<if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
   members={<actions.treeparser.members>},
   init={<actions.treeparser.init>})
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
   "TreeNodeStream", superClass, 
   labelType, members, "Node",
   filterMode, init, ASTLabelType)>

>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# $ANTLR start "<ruleName>"
def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope()>):
    <ruleLabelDefs()>
    <if(trace)>
        self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
        try:
            <block>
        finally:
            self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)
    </if>  
    <else>
        <block>
    </else>
    <endif>
# $ANTLR end "<ruleName>"
>>
synpred(name) ::= <<
def <name>(self):
    self._state.backtracking += 1
    <@start()>
    start = self.input.mark()
    try:
        self.<name>_fragment()
    except BacktrackingFailed:
        success = False
    else:
        success = True
    self.input.rewind(start)
    <@stop()>
    self._state.backtracking -= 1
    return success
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>
ruleMemoization(name) ::= <<
  <if(memoize)>
    if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
      # for cached failed rules, alreadyParsedRule will raise an exception
      success = True
      return <ruleReturnValue()>
  <endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  <if(backtracking)>
    if self._state.backtracking > 0:
      raise BacktrackingFailed
  <endif>
>>

/** How to generate code for a rule. This includes any return type
  * data aggregates required for multiple return values.
  */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
  <returnScope(scope=ruleDescriptor.returnScope)>
  # $ANTLR start "<ruleName>"
  # <fileName>:<description>
  <ruleDescriptor.actions.decorate>
  def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
    <if(trace)>
      self.traceIn("<ruleName>", <ruleDescriptor.index>)
    <endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    #@preamble()  
    #@body><ruleBody()></@end>
    #@postamble()  
    return <ruleReturnValue()>

  # $ANTLR end "<ruleName>"
>>

ruleBody() ::= <<
  <if(memoize)>
>
<if(backtracking)>
success = False
</if>
<endif>
<endif>
try:
  try:
    <ruleMemoization(name=ruleName)>
    <block>
      <ruleCleanUp()>
      <(ruleDescriptor.actions.after):execAction()>
    </block>
    <if(memoize)>
      <if(backtracking)>
        success = True
      </if>
    </if>
  </try>
  <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><
    >}
  </if>
  <else>
    <if(!emptyRule)>
      <if(actions.(actionScope).rulecatch)>
        <actions.(actionScope).rulecatch>
      </if>
      <else>
        except RecognitionException, re:
          self.reportError(re)
          self.recover(self.input, re)
          <setErrorReturnValue()>
      </else>
    </if>
  </else>
<endif>
<else>
  finally:
    pass
</endif>
<endif>
<endif>
finally:
  <if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)
  </if>
<endif>
<memoize()>
<ruleScopeCleanUp()>
<finally>
  pass
</if>

catch(decl,action) ::= <<
  except <e.decl>:
    <e.action>
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval = self.<ruleDescriptor.name>_return()
retval.start = self.input.LT(1)<
<elseif(ruleDescriptor.returnScope)>
<ruleDescriptor.returnScope.attributes:{ a |
<a.name> = <if(a.initValue)<<a.initValue)<<else>None</endif>
}><endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex = self.input.index()
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{it | self.<it>_stack.append(<it>_scope())); separator="\n">
<ruleDescriptor.ruleScope:{it | self.<it.name>_stack.append(<it.name>_scope())); separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it | self.<it>_stack.pop()); separator="\n">
<ruleDescriptor.ruleScope:{it | self.<it.name>_stack.pop()); separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels>
:{it | <it.label.text> = None}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.wildcardTreeListLabels]
:{it | list.<it.label.text> = None}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n")
<ruleDescriptor.ruleListLabels:{it | <it.label.text> = None}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
:{it | <it.label.text> = None}; separator="\n"
>
<ruleDescriptor.charLabels:{it | <it.label.text> = None}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
    :[it | list_<it.label.text> = None]; separator="\n"
>
>>

ruleReturnValue() ::= <%
  <if(!ruleDescriptor.isSynPred>)
  <if(ruleDescriptor.hasReturnValue)>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnName>
  <else>
  retval
  <endif>
  <endif>
  <endif>
  %>

ruleCleanUp() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <if(!TREE_PARSER>)
  retval.stop = self.input.LT(-1)<\n>
  <endif>
  <endif>
  >>

memoize() ::= <<
  <if(memoize)>
  <if(backtracking)>
  if self._state.backtracking > 0:
    self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)
  <endif>
  <endif>
  >>

/** How to generate a rule in the lexer; naked blocks are used for
  * fragment rules.
  */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
  # $ANTLR start "<ruleName>"
def m_<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
  <if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
  <endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <if(memoize)>
  <if(backtracking)>

success = False
<endif>
<endif>
try:
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
<else>
    _type = ruleName
    _channel = DEFAULT_CHANNEL
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    self._state.type = _type
    self._state.channel = _channel
    <ruleDescriptor.actions.after>:execAction()>
<endif>
<if(memoize)>
<if(backtracking)>
    success = True
<endif>
<endif>
finally:  
<if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)
<endif>
<ruleScopeCleanUp()>
    <memoize()>
    pass

# $ANTLR end "<ruleName>"

/** How to generate code for the implicitly-defined lexer grammar rule
*  that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
    <block>
// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  alt<decisionNumber> = <maxAlt>
  <decls>
  <@body><blockBody()><@end>
>>

blockBody() ::= <<
  <@predecision()>
  <@decision><decision><@end>
  <@postdecision()>
  <@prebranch()>
  <alts:{a | <altSwitchCase(i, a)>}; separator="\n">: separator="\n">
  <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  alt<decisionNumber> = <maxAlt>
  <decls>
  <@predecision()>
  <@decision><decision><@end>
  <@postdecision()>
  <alts:{a | <altSwitchCase(i, a)>}; separator="\n">
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>
/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  cnt<decisionNumber> = 0
  <decls>
  <@preloop()>
  <@loopBody>
  <positiveClosureBlockLoop()>
  <@end>
  <@postloop()>
>>

positiveClosureBlockLoop() ::= <<
  while True: #loop<decisionNumber>
    alt<decisionNumber> = <maxAlt>
    <@predecision()>
    <@decisionBody><decision><@end>
    <@postdecision()>
    <alts:{a | <altSwitchCase(i, a)>}; separator="\n"> else:
      if cnt<decisionNumber> >= 1:
        break #loop<decisionNumber>

      <ruleBacktrackFailure()>
      eee = EarlyExitException(<decisionNumber>, self.input)
      <@earlyExitException()>
      raise eee
    cnt<decisionNumber> += 1
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  <decls>
  <@preloop()>
  <@loopBody>
  <closureBlockLoop()>
  <@end>
  <@postloop()>
>>
closureBlockLoop() ::= <<
while True: #loop<decisionNumber>
    alt<decisionNumber> = <maxAlt>
    #@predecision()>
    #@decisionBody<decision><@end>
    #@postdecision()>
    <alts:{a | <altSwitchCase(i, a)> }; separator="\n"> else:
    break #loop<decisionNumber>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum,alt) ::= <<
    if alt<decisionNumber> == <altNum>:
        #@prealt()>
        <alt>
    >>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    # <fileName>:<description>
    pass <! so empty alternatives are a valid block !>
    #@declarations()>
    <elements:element()>
    <rew>
    #@cleanup()>
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element(e) ::= <<
<@prematch()>
<e.el><\n>
>>
/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)><label> = <endif>self.match(self.input, <token>,
self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>
/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, label)>
>>
listLabel(label, elem) ::= <<
if list_<label> is None:
list_<label> = []
list_<label>.append(<elem>)<\n>
>>
/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.match(<char>)
>>
/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchRange(<a>, <b>)
>>
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
if <s>:
self.input.consume()
<postmatchCode>
<if(!LEXER)>

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self._state.errorRecovery = False
<endif>

else:
    <ruleBacktrackFailure()>
    mse = MismatchedSetException(None, self.input)
    @@mismatchedSetException()>
    <if(LEXER)>
    self.recover(mse)
    raise mse
    <else>
    raise mse
    </ruleBacktrackFailure()>
    <if(LEXER)>
    self.recover(mse)
    raise mse
    <else>
    raise mse
    <endif>
    <matchRuleBlockSet ::= matchSet>

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<<
    <matchSet(...)>
    <listLabel(label, label)>
    >>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<<
    <if(label)>
    <label>Start = self.getCharIndex()
    self.match(<string>)
    <label>StartLine<elementIndex> = self.getLine()
    <label>StartCharPos<elementIndex> = self.getCharPositionInLine()
    <label> = <labelType>(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL, start=<label>Start, stop=self.getCharIndex()-1)
    <label>.setLine(<label>StartLine<elementIndex>)
    <label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
    <else>
    self.match(<string>)
    <endif>
    >>

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<<
    <if(label)>
    <label> = self.input.LT(1)\n
    <endif>
self.matchAny(self.input)

wildcardAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<wildcard(...)>
<listLabel(label,label)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = self.input.LA(1)<\\n>
<endif>
self.matchAny()
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<if(label)><label> = <endif>self.<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=","";>)<\\n>
self._state.following.pop()
>>

/** ids+=rule */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, label)>
>>

/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator="", ">)

<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(
  input=self.input,
  type=INVALID_TOKEN_TYPE,
  channel=DEFAULT_CHANNEL,
  start=<label>Start<elementIndex>,
  stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)

<else>
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator="", ">)
</endif>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
(if(label>)
<label>Start<elementIndex> = self.getCharIndex()
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
self.match(EOF)
<label> = <labelType>(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
  start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
self.match(EOF)
</endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "<recRuleArg()>
recRuleArg() ::= ".p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0 = $<ruleName>._primary.tree"
recRuleSetReturnAction(src, name) ::= "$<name> = $<src>.<name>"

/** match ^\(root children\) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
     enclosingTreeLevel, treeLevel) ::= <<
/** Every predicate is used as a validating predicate (even when it is
*  also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if not (<evalPredicate(pred, description)>):
    <ruleBacktrackFailure>()
    raise FailedPredicateException(self.input, "<ruleName>", "<description>")
>>

// F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)\n<edges; separator="\n">
else:
    <if(eotPredictsAlt>>
    alt<decisionNumber> = <eotPredictsAlt>
<else>
    <ruleBacktrackFailure>()
    nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)\n    @@noViableAltException()\n    raise nvae\n<endif>
>>

/** Same as a normal DFA state except that we don't examine lookahead
*  for the bypass alternative. It delays error detection but this
*  is faster, smaller, and more what people expect. For (X)? people
*  expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)\n>
/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\n"; separator="\n"><
if(eotPredictsAlt)
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
else:
alt<decisionNumber> = <eotPredictsAlt>
<\n>
<\n>
< endif>
< endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)</if>:<targetState>
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
FIXME: this is one of the few occasion, where I miss a switch statement
in Python. ATM this is implemented as a list of if .. elif ..
This may be replaced by faster a dictionary lookup, when I find a solution
for the cases when an edge is not a plain dfaAcceptState.
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\nel">
else:
    alt<decisionNumber> = <eotPredictsAlt>
<endif>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
    LA<decisionNumber> = self.input.LA(<k>)
    <edges; separator="\nel">
>>> 

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
    LA<decisionNumber> = self.input.LA(<k>)
    <edges; separator="\nel">
    <if(eotPredictsAlt)
    else:
        alt<decisionNumber> = <eotPredictsAlt>
    <endif>
>>> 

dfaEdgeSwitch(labels, targetState) ::= <<
    if <labels:{it | LA<decisionNumber> == <it>}; separator=" or ">
        <targetState>
    >>> 

// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= <<
    alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>> 

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
* the encoding methods.

```python
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>_eot = DFA.unpack(
    u"<dfa.javaCompressedEOT; wrap="\n    u"">"
)

DFA<dfa.decisionNumber>_eof = DFA.unpack(
    u"<dfa.javaCompressedEOF; wrap="\n    u"">"
)

DFA<dfa.decisionNumber>_min = DFA.unpack(
    u"<dfa.javaCompressedMin; wrap="\n    u"">"
)

DFA<dfa.decisionNumber>_max = DFA.unpack(
    u"<dfa.javaCompressedMax; wrap="\n    u"">"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack(
    u"<dfa.javaCompressedAccept; wrap="\n    u"">"
)

DFA<dfa.decisionNumber>_special = DFA.unpack(
    u"<dfa.javaCompressedSpecial; wrap="\n    u"">"
)

DFA<dfa.decisionNumber>_transition = [
    <dfa.javaCompressedTransition: [s|DFA.unpack(u"<s; wrap="\n    u"">")]; separator="\n    "]
]

# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
    pass

    #@errorMethod()

@if(dfa.specialStateSTs)
    def specialStateTransition(self_, s, input):
        # convince pylint that my self_ magic is ok :)
        # pylint: disable-msg=E0213
        # pretend we are a member of the recognizer
        # thus semantic predicates can be evaluated
```
self = self._recognizer

_s = s

<dfa.specialStateSTs:{state | if s == <i0>: <! compressed special state numbers 0..n-1 !>
<state> }; separator="\nel">

<if(backtracking)>
    if self._state.backtracking > 0:
        raise BacktrackingFailed
<endif>

<nvae = NoViableAltException(self._getDescription(), <dfa.decisionNumber>, _s, input)
    self._error(nvae)
    raise nvae
<endif>

>>

cyclicDFAInit(dfa) ::= <<
self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
    self, <dfa.decisionNumber>,
    eot = self.DFA<dfa.decisionNumber>._eot,
    eof = self.DFA<dfa.decisionNumber>._eof,
    min = self.DFA<dfa.decisionNumber>._min,
    max = self.DFA<dfa.decisionNumber>._max,
    accept = self.DFA<dfa.decisionNumber>._accept,
    special = self.DFA<dfa.decisionNumber>._special,
    transition = self.DFA<dfa.decisionNumber>._transition
 )
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 state.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = input.LA(1)
<if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = input.index()
input.rewind()
<endif>

s = -1
<edges; separator="\nel">
<if(semPredState) <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)
<endif>
if s >= 0:
    return s
/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if (<labelExpr>)<if(predicates)> and (<predicates>)<endif>:
  s = <targetStateNumber>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
  s = <targetStateNumber>
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "((<left>) and (<right>))"
orPredicates(operands) ::= "(<operands; separator=" or ">")"
notPredicate(pred) ::= "not (<evalPredicate(pred, {})>"

// Attributes
globalAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">
<endif>
<endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>._stack = []
<endif>
<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">
<endif>
<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>._stack = []
<endif>
<endif>
>>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
>>
returnStructName(r) ::= ";r.name\_return"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)>
class <ruleDescriptor:returnStructName()>(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
  def __init__(self):
    super(<grammar.recognizerName>,<ruleDescriptor:returnStructName()>, self).__init__()

    @ruleReturnInit()

    @ruleReturnMembers()

<endif>
>>

parameterScope(scope) ::= <<
@if(scope)><scope.attributes:{it | self.<it.decl> = None}; separator="\n"><endif>
>>

parameterAttributeRef(attr) ::= "<attr.name>"

parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
@if(negIndex)>
self.<scope>_stack[<negIndex>].<attr.name>
<else>
@if(index)>
self.<scope>_stack[<index>].<attr.name>
<else>
self.<scope>_stack[-1].<attr.name>
<endif>
<endif>
%

/* not applying patch because of bug in action parser!

@if(negIndex)>
((len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>],<attr.name>] or [None])<[]
<else>
@if(index)>
((<index> <= len(self.<scope>_stack)) and [self.<scope>_stack[<index>],<attr.name>] or [None])<[]
<else>
((len(self.<scope>_stack) > 0) and [self.<scope>_stack[-1].<attr.name>] or [None])[0]
<endif>
<endif>

*/

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
  <if(negIndex)>
  <![FIXME: this seems not to be used by ActionTranslator...!>]
  self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
  <else>
  <if(index)>
  <![FIXME: this seems not to be used by ActionTranslator...!>]
  self.<scope>_stack[<index>].<attr.name> = <expr>
  <else>
  self.<scope>_stack[-1].<attr.name> = <expr>
  <endif>
  <endif>
%

/** $x is either global scope or $x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
  (((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
  <else>
  <scope>
  <endif>
%

returnAttributeRef(ruleDescriptor,attr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name>
  <else>
  <attr.name>
  <endif>
%

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name> = <expr>
  <else>
  <attr.name> = <expr>

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/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <%
    <if(TREE_PARSER)>
    ((<scope> is not None) and [self.input.getTokenStream().toString(
        self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
        self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
    )) or [None])[0]
    <else>
    ((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)]) or [None])[0]
    <endif>
    <%

ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.st] or [None])[0]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or [0])[0]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> is not None) and [<scope>.index] or [0])[0]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> is not None) and [<scope>.text] or [0])[0]"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"
// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "retval.start"
rulePropertyRef_stop(scope, attr) ::= "retval.stop" // mmm.. or input.LT(-1)??
rulePropertyRef_tree(scope, attr) ::= "retval.tree"
rulePropertyRef_text(scope, attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope, attr) ::= "retval.st"

lexerRulePropertyRef_text(scope, attr) ::= "self.text"
lexerRulePropertyRef_type(scope, attr) ::= "_type"
lexerRulePropertyRef_line(scope, attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope, attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope, attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope, attr) ::= "_channel"
lexerRulePropertyRef_start(scope, attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope, attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope, attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
  <if(actions.(actionScope).synpredgate)>
  if <actions.(actionScope).synpredgate>:
    pass
    <action>
  <else>
  if <actions.(actionScope).synpredgate>:
    pass
    <action>
  </endif>
  <else>
  #action start
  <action>
  #action end
  <endif>
  >>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"
codeFileExtension() ::= ".py"

true_value() ::= "True"
false_value() ::= "False"

Found in path(s):
*/opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python/Python.stg*

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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@returnScopeInterface.memVars() ::= <<
<@super.memVars()>
/* ST returnInterface.memVars */
ST *st;
>>
@returnScopeInterface.properties() ::= <<
<@super.properties()>
/* ST returnScope.properties */
@property (retain, getter=getST, setter=setST:) ST *st;
>>

@returnScopeInterface.methodsDecl() ::= <<
<@super.methodsDecl()>
/* ST AST returnScopeInterface.methodsDecl */
- (id) getTemplate;
- (NSString *) toString;
- (NSString *) description;
>>

@returnScopeInterface() ::= <<
/* ST returnScopeInterface */
@interface <returnScopeInterface.name> : ReturnScope {
<returnScopeInterface.memVars()>
}
<returnScopeInterface.properties()>
<returnScopeInterface.methods()>
@end

@returnScopeImplementation.synthesize() ::= <<
<@super.synthesize()>
/* ST returnScope.synthesize */
@synthesize st;
>>

@returnScopeImplementation.methods() ::= <<
<@super.methods()>
/* ST returnScope.methods */
- (id) getTemplate { return st; }
- (NSString *) toString { return st==nil?nil:[st toString]; }
- (NSString *) description { [self toString]; }
>>

@returnScopeImplementation() ::= <<
@implementation <returnScopeImplementation.name>
<returnScopeImplementation.synthesize()>
<returnScopeImplementation.methods()>
@end
>>
/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
  @super.ruleReturnMembers()>
/* ST returnScope.ruleReturnMembers -- empty */
>>

@genericParserHeaderFile.memVars() ::= <<
  @super.memVars()>
/* ST genericParserHeaderFile.memVars -- empty now */
STGroup *templateLib; /* ST -- really a part of STAttrMap */
>>

@genericParserHeaderFile.properties() ::= <<
  @super.properties()>
/* ST genericParser.properties */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
>>

@genericParserHeaderFile.methodsDecl() ::= <<
  @super.methodsDecl()>
/* ST genericParser.methodsDecl */
- init;
- (STGroup *) getTemplateLib;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
@end
>>

@genericParser.synthesize() ::= <<
  @super.synthesize()>
/* ST genericParserImplementation.synthesize */
@synthesize templateLib;
>>

@genericParser.methods() ::= <<
  @super.methods()>
/* ST genericParser.methods */

- (STGroup *)getTemplateLib
{
    return templateLib;
}

- (void) setTemplateLib:(STGroup *)aTemplateLib
{
    templateLib = aTemplateLib;
}
>>
@genericParser.members() ::= <<
<@super.members()>
STGroup *templateLib = [STGroup newSTGroup:@"<name>Templates"];
- (STGroup *) getTemplateLib
{
return templateLib;
}
- (void) setTemplateLib:(STGroup *) templateLib
{
this.templateLib = templateLib;
}
/** allows convenient multi-value initialization:
* "new STAttrMap().put(...).put(...)"
*/
/* REPLACE THIS STATIC CLASS
static class STAttrMap extends HashMap {
- (STAttrMap *) setObject:(id)aValue forKey:(NS*)String attrName
{
[super setObject:value forKey:attrName];
return self;
}
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName
{
[super setObject:[NSNumber numberWithInteger:value] forKey:attrName];
return self;
}
}
*/
>>
@STAttrMap() ::= <<
/* -------- ST start STAttrMap ------------ */
<@STAttrMap.interface()>
<@STAttrMap.implementation()>
/* -------- ST end STAttrMap ------------ */
>>
@STAttrMap.interface() ::= <<
/* -------- ST start STAttrMap.interface ------------ */
@interface STAttrMap : HashMap {
/* <@STAttrMap.memVars()> */
STGroup *templateLib;
}

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/*    <@STAttrMap.properties()> */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
/* <@STAttrMap.methodsDecl()> */
- (id) init;
- (STAttrMap *) setObject:(id)value forKey:(NSString *)attrName;
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
- (STGroup *) getTemplateLib;
@end
/* -------- ST end STAttrMap.interface ------------ */

@STAttrMap.implementation() ::= <<
/* -------- ST start STAttrMap.implementation ------------ */
/** allows convenient multi-value initialization:
* "new STAttrMap().put(...).put(...)"
*/
@implementation STAttrMap
@synthesize templateLib;

<@STAttrMap.methods()>
@end
/* -------- ST end STAttrMap.implementation ------------ */

@STAttrMap.memVars() ::= <<
/* -------- ST start STAttrMap.memVars ------------ */
STGroup *templateLib;
/* -------- ST end STAttrMap.memVars ------------ */

@STAttrMap.properties() ::= <<
/* -------- ST start STAttrMap.properties ------------ */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
/* -------- ST end STAttrMap.properties ------------ */

@STAttrMap.methodsDecl() ::= <<
/* -------- ST start STAttrMap.methodsDecl ------------ */
- (id) init;
- (STAttrMap *) setObject:(id)value forKey:(NSString *)attrName;
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
- (STGroup *) getTemplateLib;
/* -------- ST end STAttrMap.methodsDecl ------------ */

@STAttrMap.methods() ::= <<

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/* -------- ST start STAttrMap.methods ------------ */
- (id) init
{
    self = [super initWithLen:16];
    if ( self != nil ) {
        templateLib = [STGroup newSTGroup:"<name>Templates"];  
    }
    return self;
}

- (STAttrMap *) setObject:(id)aValue forKey:(NSString *)aAttrName
{
    [super setObject:aValue forKey:aAttrName];
    return self;
}

- (STAttrMap *) setObjectWithInt:(NSInteger)aValue forKey:(NSString *)aAttrName
{
    [super setObject:[NSNumber numberWithInteger:aValue] forKey:aAttrName];
    return self;
}

- (void) setTemplateLib:(STGroup *)aTemplateLib
{
    templateLib = aTemplateLib;
}

- (STGroup *) getTemplateLib
{
    return templateLib;
}

/* -------- ST end STAttrMap.methods ------------ */

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ST ruleRefAndListLabel */
<ruleRef(...)>
<listLabel(elem=[label getTemplate,...]>)
>> rewriteTemplate(alts) ::= <<
/* x+=rule when output=template */

/* -------- ST start rewriteTemplate ------------ */
// TEMPLATE REWRITE
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)<replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
/* -------- ST end rewriteTemplate ------------ */
>>

replaceTextInLine() ::= <<
/* -------- ST start replaceTextInLine ------------ */
<TREE_PARSER>
[[TokenRewriteStream *)input getTokenStream]
replaceFromIndex: [[input getTreeAdaptor] getTokenStartIndex:retval.start]
ToIndex: [[input getTreeAdaptor] getTokenStopIndex:retval.start]
Text:retval.st];
<else>
[(TokenRewriteStream *)input)
replaceFromIndex: [((CommonToken *)retval.start) getTokenIndex]
ToIndex: [(input LT:-1) getTokenIndex]
Text:retval.st];
<endif>
/* -------- ST end replaceTextInLine ------------ */
>>

rewriteTemplateAlt() ::= <<
/* -------- ST start rewriteTemplateAlt ------------ */
/* ST <it.description> */
<if(it.pred)>
if (<it.pred>) {
  retval.st = <it.alt>;
}
<else>
[
  retval.st = <it.alt>;
]
<endif>
/* -------- ST end rewriteTemplateAlt ------------ */
>>

rewriteEmptyTemplate(alts) ::= <<
nil;
>>

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name, args) ::= <<
/* -------- ST start rewriteExternalTemplate ------------ */
[templateLib getInstanceOf:@"<name>"
@if(args) ][[STAttrMap newSTAttrMap] <args:{a | setObject:<a.value> forKey:@"<a.name>"}> ]</endif>
/* -------- ST end rewriteExternalTemplate ------------ */
>>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <<
/* -------- ST start rewriteIndirectTemplate ------------ */
[templateLib getInstanceOf:<expr>
@if(args) ][[STAttrMap newSTAttrMap] <args:{a | setObject:<a.value> forKey:@"<a.name>"}> ]</endif>
<else> ]</endif>
/* -------- ST end rewriteIndirectTemplate ------------ */
>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
/* -------- ST start rewriteInlineTemplate ------------ */
STGroup *templateLib;
templateLib.templates = [STAttrMap newSTAttrMap];
@if(args) [templateLib.templates <args:{a | setObject:<a.value> forKey:@"<a.name>"}> ];</endif>
[ST newST:templateLib template:@"<template>"];
/* -------- ST end rewriteInlineTemplate ------------ */
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
/* -------- ST start rewriteAction ------------ */
?action>
/* -------- ST end rewriteAction ------------ */
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
/* -------- ST start actionSetAttribute ------------ */
[[ST attributes] setObject:<expr> forKey:@"<attrName>"];
<![<st> setAttribute:<expr> name:@"<attrName>"];!>
/* -------- ST end actionSetAttribute ------------ */
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
/* -------- ST start actionStringConstructor ------------ */
[ST newSTWithTemplate:<stringExpr>]
/* -------- ST end actionStringConstructor ------------ */
>>
Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/ST.stg
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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/
parserMembers() ::= <<
protected DebugTreeAdaptor adaptor =
   new DebugTreeAdaptor(null,new CommonTreeAdaptor());
public void setTreeAdaptor(TreeAdaptor adaptor) {
   this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
}
public TreeAdaptor getTreeAdaptor() {
   return adaptor;
} <<
>>
parserCtorBody() ::= <<
>>

createListenerAndHandshake() ::= <<
<super.createListenerAndHandshake()>
>>

ctorForPredefinedListener() ::= <<
>>

@rewriteElement.pregen() ::= ""

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/antlr/codegen/templates/C/ASTDbg.stg
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*/

group AST;
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  strict protected
    FAdaptor: ITreeAdaptor;
    procedure SetAdaptor(const Value: ITreeAdaptor);
    property Adaptor: ITreeAdaptor read FAdaptor;
  public
    property TreeAdaptor: ITreeAdaptor read FAdaptor write SetAdaptor;
>>

parserMembersConstructor() ::= <<
  FAdaptor := TCommonTreeAdaptor.Create;
>>

parserMembersImplementation() ::= <<
  procedure T<grammar.recognizerName>.SetAdaptor(const Value: ITreeAdaptor);
  begin
    FAdaptor := Value;
    <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor := FAdaptor;}>
  end;
>>

@returnScope.ruleReturnMembers() ::= <<
  function T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.GetTree: IANTLRInterface;
  begin
    Result := FTree;
  end;
>>
end;

procedure T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()> .SetTree(const Value: IANTLRInterface);
begin
FTree := Value as I<ASTLabelType>;
end;
>>

@returnScopeDeclaration.ruleReturnMembers() ::= <<
strict private
FTree: I<ASTLabelType>;
protected
{ IRuleReturnScope }
function GetTree: IANTLRInterface; override;
procedure SetTree(const Value: IANTLRInterface); override;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
Root[0] := nil;
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
Root: array [0..63] of I<ASTLabelType>;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree := nil;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree := nil;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites:{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor,'token <it>');}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites:{Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor,'rule <it>');}; separator="\n">
>>

ruleLabelDefVars() ::= <<
<super.ruleLabelDefVars()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables; */
* These should be turned off if doing rewrites. This must be a "mode"*
* as a rule could have both rewrite and AST within the same alternative
* block.
/*
@alt.declarations() ::= <<
  <if(autoAST)>
  <if(outerAlt)>
  <if(!rewriteMode)>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
  <endif>
  <endif>
  <endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefBang(...)> <! Track implies no auto AST construction!>
  <if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as IRewriteRuleElementStream).Add(<label>);

>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefTrack(...)
  <listLabel(elem=label,...)>

>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefBang(....)
  <if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as IRewriteRuleElementStream).Add(<label>);

>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefRuleRootTrack(....)
  <listLabel(elem=label,...)>

>>

wildcardTrack(label,elementIndex) ::= <<
  <super.wildcard(...)

>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)

>>
"if(backtracking)"if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule.name>'] as IRewriteRuleElementStream).Add(<label>.Tree);

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label;elementIndex,args,scope) ::= <<
    <ruleRefTrack(...>)
    <listLabel(elem=label+".Tree",...>)
>>

/** ^(rule ...) rewrite */
ruleRefRuleRuleRootTrack(rule,label;elementIndex,args,scope) ::= <<
    <ruleRefRuleRoot(...)>
    <if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule>'] as IRewriteRuleElementStream).Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRuleRootTrackAndListLabel(rule,label;elementIndex,args,scope) ::= <<
    <ruleRefRuleRootTrack(...)>
    <listLabel(elem=label+".Tree",...>)
>>

// Rewrite
rewriteCode(
    alts, description,
    referencedElementsDeep, // ALL referenced elements to right of ->
    referencedTokenLabels,
    referencedTokenListLabels,
    referencedRuleLabels,
    referencedRuleListLabels,
    referencedWildcardLabels,
    referencedWildcardListLabels,
    rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements:    <referencedElementsDeep; separator=" ">
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.Tree = (<ASTLabelType>)adaptor.rulePostProcessing(root[0]);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
adaptor.GetChildIndex(retval.Start),
adaptor.GetChildIndex(_last),
retval.Tree);
<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef()>.Tree := Root[0];
<endif>
<if(!rewriteMode)>
<prevRuleRootRef()>.Tree := Root[0];
<endif>
<if(backtracking)>
end;
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
 :{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', <it>);};
 separator="\n"
>
<referencedTokenListLabels
 :{Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', list_<it>);};
 separator="\n"
>
<referencedRuleLabels:
 if Assigned(<it>) then
 Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', <it>.Tree)
 else
 Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', nil); }
 separator="\n"
<referencedRuleListLabels
 :{Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', list_<it>);};
 separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
  (* <fileName>:<description> *)
  if (<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ") then
    begin
    <alt>
    end;
  <referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();
    }>>

rewriteClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
  (* <fileName>:<description> *)
  while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ") do
    begin
    <alt>
    end;
  <referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();
    }>>

rewritePositiveClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
  if (not (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ")}) then
    raise ERewriteEarlyExitException.Create('');

  while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ") do
    begin
    <alt>
    end;
  <referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();
    }>>
** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "Root[0] = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
(* <fileName>:<description> *)
begin
Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
<root:rewriteElement()>
<children:rewriteElement()>
Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
end;<

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
<!--pregen()-->
<e.e>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode());<

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode);<

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
Adaptor.AddChild(Root[<treeLevel>], createRewriteNodeFromElement(...));<

rewriteAlt(a) ::= <<
(* <a.description> *)
@if(a.pred)
if (<a.pred>) then
begin
<a.alt>
end;
@else
begin
<a.alt>
end;
@endif
>>
/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[ args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, Root[<treeLevel>]) as I<ASTLabelType>;<
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createImaginaryNode(tokenType=token, ...)>);<
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...>), Root[<treeLevel>]) as I<ASTLabelType>;<
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
Root[0] = <action>;<
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of Root[0] right
* before I set it during rewrites. The assign will be to retval.Tree.
*/
prevRuleRootRef() ::= "RetVal"

rewriteRuleRef(rule) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextTree());<
>>

rewriteRuleRefRoot(rule) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextNode, Root[<treeLevel>]) as I<ASTLabelType>;<
>>

rewriteNodeAction(action) ::= <<
Adaptor.AddChild(Root[treeLevel], <action>);
>>

rewriteNodeActionRoot(action) ::= <<
Root[treeLevel] := Adaptor.BecomeRoot(<action>, Root[treeLevel]) as I<ASTLabelType>;<<
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
Adaptor.AddChild(Root[treeLevel], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<<
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
Adaptor.AddChild(Root[treeLevel], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<<
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
Root[treeLevel] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[treeLevel]) as I<ASTLabelType>;<<
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
Root[treeLevel] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[treeLevel]) as I<ASTLabelType>;<<
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<! new MethodNode(IDLabel, args ) !>
T<terminalOptions.node>.Create(<tokenType>if(args)>, <args; separator="", ""><endif>)
<else>
Adaptor.CreateNode(<tokenType>, <args; separator="", "">if(!args)'<tokenType>'<endif>) as I<ASTLabelType>
<endif>
>>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<! if(terminalOptions.node) !>
T<terminalOptions.node>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextTokenif(args)>
<args; separator="", ""><endif>)
<else>
<if(args) <! must create new node from old !>
Adaptor.Create(<token>, <args; separator="", "")
<else>
(Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
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 */

/** Templates for building ASTs during normal parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
invalid. There is no huge explosion of combinations.

@rule.setErrorReturnValue() ::= <<
    retval.Tree = (<ASTLabelType>) adaptor.ErrorNode(input, retval.Start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
    <super.tokenRef(...>)
    <if(backtracking)>if (state.backtracking == 0) {<endif>
    <label>_tree = <createNodeFromToken(...)>
    adaptor.AddChild(root_0, <label>_tree);
    <if(backtracking)>}<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
    <super.tokenRef(...>)
    <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
    <label>_tree = <createNodeFromToken(...)>
    root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
    <if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
    <tokenRefBang(...)>
    <listLabelElem(elem=label,elemType=labelType,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
    <tokenRef(...)>
    <listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
    <tokenRefRuleRoot(...)>
    <listLabelElem(elem=label,elemType=labelType,...)>
>>
// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code.  I don't use the region stuff because I need to pass
// different chunks depending on the operator.  I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or rulerroot code
// plus list label plus ...  The combinations might require complicated
// rather than just added on code.  Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(postmatchCode={ <if(backtracking)>if (<actions.(actionScope).synpredgate>)
<endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);}, ...)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(…)>}
>>

matchSetBang(s,label,elementIndex,terminalOptions,postmatchCode) ::= "<super.matchSet(…)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<label>=(<labelType>)input.LT(1);
<endif>
<super.matchSet(postmatchCode={ <if(backtracking)>if (<actions.(actionScope).synpredgate>)
<endif>root_0 =
<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);}, ...)>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(…)>}
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(…)>"

/** rule^ */
ruleRefRuleRoot(rule.label.elementIndex,args,scope) ::= «
<super.ruleRef(...)> 
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 = 
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0); 
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= «
<ruleRef(...)> 
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)> 
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= «
<ruleRefBang(...)> 
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)> 
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= «
<ruleRefRuleRoot(...) > 
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)> 
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions) ::= «
<super.wildcard(...)> 
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif> 
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>); 
adaptor.AddChild(root_0, <label>_tree); 
<if(backtracking)>}<endif> 
}}> 

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(token,label,elementIndex,terminalOptions) ::= «
<super.wildcard(...)> 
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif> 
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>); 
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0); 
<if(backtracking)>}<endif> 
}}> 

createNodeFromToken(label,terminalOptions) ::= «%
<if(terminalOptions.node)> 
new <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex

---

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%>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
@if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.Tree, retval.Start, retval.Stop);
@if(backtracking)>}<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp2/ASTParser.stg
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/** Template overrides to add debugging to AST stuff. Dynamic inheritance */

# group ASTDbg:

astAccessor() ::= <<
def setTreeAdaptor(self, adaptor):
  <if(grammar.grammarIsRoot)>
    self._adaptor = DebugTreeAdaptor(self.dbg, adaptor)
  <else>
    self._adaptor = adaptor # delegator sends dbg adaptor
  <endif>
  <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(self._adaptor)}>

def getTreeAdaptor(self):
return self._adaptor

adaptor = property(getTreeAdaptor, setTreeAdaptor)

createListenerAndHandshake() ::= <<
proxy = DebugEventSocketProxy(self,
adaptor=<if(TREE_PARSER)>self.input.getTreeAdaptor()<else>self._adaptor<endif>,
    debug=debug_socket, port=port)
self.setDebugListener(proxy)
self.adaptor.setDebugListener(proxy)
self.input.setDebugListener(proxy)
#self.set<inputStreamType>(Debug<inputStreamType>(self.input, proxy))
proxy.handshake()
>>

@rewriteElement.pregen() ::= "self._dbg.location(<e.line>, <e.pos>)"

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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python/ASTDbg.stg
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
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@outputFile.imports() ::= <<
@super.imports()
@if(!TREE_PARSER)<! tree parser would already have imported !>
import org.antlr.runtime.tree.*;<
>!
>endif>
>>

@genericParser.members() ::= <<
@super.members()
<parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected TreeAdaptor adaptor = new CommonTreeAdaptor();

public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>}
}

public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}
>>

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
@Override
public <ASTLabelType> getTree() { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<
>!
>!
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
@if(!ruleDescriptor.isSynPred)>
<rulenameDescriptor.tokenLabels,rulenameDescriptor.wildcardTreeLabels,
    rulenameDescriptor.wildcardTreeListLabels]:{it | <ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<rulenameDescriptor.tokenListLabels:{it | <ASTLabelType> <it.label.text>_tree=null;}; separator="\n”>
@if(ruleDescriptor.supportsLabelOptimization)>
<rulenameDescriptor.allTokenRefInRewrites

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/** When doing auto AST construction, we must define some variables:
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
@if(autoAST)>
@if(outerAlt)>
@if(!rewriteMode && !ruleDescriptor.isSynPred)>
root_0 = (<ASTLabelType>)adaptor.nil();<
@endif>
@endif>
@endif>
@endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions={}) ::= <<
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<
@endif>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<<	
<<	
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
<un>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label, ...)>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(label, {<label>.getTree()})>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(label, {<label>.getTree()})>
>>

// R e w r i t e

rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
  rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<


// AST REWRITE
// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator="",">

<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
<endif>
<prevRuleRootRef()>.tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
input.replaceChildren(adaptor.getParent(retval.start),
adaptor.getChildIndex(retval.start),
adaptor.getChildIndex(_last),
retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;
<endif>
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels :
{:it | RewriteRule<rewriteElementType>Stream stream_it=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>);}; separator="n"}
>
<referencedTokenListLabels :
{:it | RewriteRule<rewriteElementType>Stream stream_it=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>);}; separator="n"}
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="||"> ) {
 <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<
>}
>>

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
 <alt>
}
<referencedElements:{el | stream_<el>.reset();<
>}
>>
rewritePositiveClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
description) ::= 
  <<
  if ( !(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) ) {
    throw new RewriteEarlyExitException();
  }
  while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
    <alt>
  }<referencedElements:{el | stream_<el>.reset();<\n}>>
>>

rewriteAlt(a) ::= <<
  // <a.description>
  <if(a.pred)> if (<a.pred>) {
    <a.alt>
  }<\n>
  <else>
  {
    <a.alt>
  }<\n>
  <endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
  // <fileName>:<description>
  {
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
    <root:rewriteElement()>
    <children:rewriteElement()>
    adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
  }<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
  @pregen()<e.el>
>>
/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,args,terminalOptions={}) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>&gt;
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ... or ^ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,args,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,elementIndex,terminalOptions={}) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(token,args,terminalOptions)>);
>>

rewriteImaginaryTokenRefRoot(args,token,elementIndex,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createImaginaryNode(token,args,terminalOptions)>,
root_<treeLevel>);
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = &lt;action&gt;
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.

```
/*
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<action>, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

createImaginaryNode(tokenType,args,terminalOptions={}) ::= <%
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>(<tokenType><if(args)>, <args; separator=", "><endif>)
%%
<else>
  (<ASTLabelType>) adaptor.create(<tokenType>, <args; separator="", ""><if(!args)"><tokenType>"<endif>
  <endif>
</%>

createRewriteNodeFromElement(token, args, terminalOptions={}) ::= <%
  <if(terminalOptions.node)>
    new <terminalOptions.node>(stream_<token>.nextToken(<if(args)>, <args; separator="", ""><endif>
  <else>
    <if(args)> <! must create new node from old !>
      adaptor.create(<token>, <args; separator="", "")
    </else>
    stream_<token>.nextNode()
  <endif>
  <endif>
</%>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/AST.stg
No license file was found, but licenses were detected in source scan.

/*
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*/
javaTypeInitMap ::= [
    "int":"0",
    "long":"0",
    "float":"0.0f",
    "double":"0.0",
    "boolean":"false",
    "byte":"0",
    "short":"0",
    "char":"0",
    default:"null" // anything other than an atomic type
]

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
    "True":"true",
    "False":"false",
    "true":"true",
    "false":"false",
    default:"false"
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
        docComment, recognizer,
        name, tokens, tokenNames, rules, cyclicDFAs,
        bitsets, buildTemplate, buildAST, rewriteMode, profile,
        backtracking, synpreds, memoize, numRules,
        fileName, ANTLRVersion, generatedTimestamp, trace,
        scopes, superClass, literals) ::= <<
    // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
    <actions.(actionScope).header>

    @imports
    import org.antlr.runtime.*;
    <if(TREE_PARSER)>
    import org.antlr.runtime.tree.*;
    <endif>
    import java.util.Stack;
    import java.util.List;
    import java.util.ArrayList;
    <if(backtracking)>
    import java.util.Map;
    import java.util.HashMap;
lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken", superclass="Lexer") ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
<tokens:{it | public static final int <it.name>=<it.type>;}; separator="\n">
<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)<@end> }}
<actions.lexer.members>

// delegates
<grammar.delegates:
{g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:
{g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|public <g.recognizerName> gParent;>
public <superClass>[] getDelegates() {
return new <superClass>[] { <grammar.delegates: {g|<g:delegateName()>}; separator =", "};
}

public <grammar.recognizerName>() {} <! needed by subclasses !>
public <grammar.recognizerName>(CharStream input<grammar.delegators:{g|, <g.recognizerName>
<g:delegateName()>}>) {
this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g:delegateName()>}>);
}
public <grammar.recognizerName>(CharStream input, RecognizerSharedState state<grammar.delegators:{g|,
<g.recognizerName> <g:delegateName()>}>) {
super(input,state);
<if(memoize)>
<if(grammar.grammarIsRoot)>
state.ruleMemo = new HashMap[numRules+1];
\n<! index from 1..n !>
<endif>
<endif>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()}>,
this);}; separator="\n">
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n">
<last(grammar.delegators):{g|gParent = <g:delegateName()>;}>
}
@Override public String getGrammarFileName() { return "<fileName>"; }
/** A override of Lexer.nextToken() that backtracks over mTokens() looking 
* for matches. No error can be generated upon error; just rewind, consume 
* a token and then try again. backtracking needs to be set as well. 
* Make rule memoization happen only at levels above 1 as we start mTokens 
* at backtracking==1. 
*/
filteringNextToken() ::= <<
@Override
public Token nextToken() {
while (true) {
if ( input.LA(1)==CharStream.EOF ) {
Token eof = new CommonToken(input,Token.EOF, 
Token.DEFAULT_CHANNEL, 
input.index(),input.index());
eof.getLine();
eof.setCharPositionInLine(getCharPositionInLine());
return eof;
}
state.token = null;
state.channel = Token.DEFAULT_CHANNEL;
state.tokenStartCharIndex = input.index();
state.tokenStartCharPositionInLine = input.getCharPositionInLine();
state.tokenStartLine = input.getLine();
state.text = null;
try {
int m = input.mark();
state.backtracking=1; <! means we won't throw slow exception !>
state.failed=false;
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2 
and we set the synpredgate to allow actions at level 1. !>
if ( state.failed ) {
}
input.rewind(m);
input.consume(); //! advance one char and try again !>
}
else {
emit();
return state.token;
}
}
catch (RecognitionException re) {
// shouldn't happen in backtracking mode, but...
reportError(re);
recover(re);
}
}
}

@override
public void memoize(IntStream input,
int ruleIndex,
int ruleStartIndex)
{
if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

@override
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
return false;
}

actionGate() ::= "state.backtracking==0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="Object") ::= <if(grammar.grammarIsRoot)>
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
<if(grammar.grammarIsRoot)>
public static final String[] tokenNames = new String[] {
"\\<invalid\\>", "?<EOR\\>", "?<DOWN\\>", "?<UP\\>", <tokenNames; separator=", ", wrap=\"\n\t\">
};
<endif>
	<tokens:{it |public static final int <it.name>=<it.type>;}; separator="\n">
// delegates
public <superClass>[] getDelegates() {
    return new <superClass>[] {
        <grammar.delegates: {g|<g.recognizerName> <g:delegateName();>}; separator="", "">
    }
}

// delegators
<grammar.delegators: {g|public <g.recognizerName> <g:delegateName();>; separator="\n">}
<last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif> }>

<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
    <g:delegateName();}>); separator="", ">
    this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g:delegateName();}>));
}
public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
    state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName();}>}) {
    super(input, state);

    <grammar.directDelegates:
        {g|<g:delegateName();} = new <grammar.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName();}>,
            this);}; separator="\n">
    <grammar.indirectDelegates:{g | <g:delegateName();} = <g.delegator:delegateName()>.<g:delegateName();};
    separator="\n”>
    <last(grammar.delegators):{g|gParent = <g:delegateName();}>}
}<@end>

@Override public String[] getTokenNames() { return
    <grammar.composite.rootGrammar.recognizerName>.tokenNames; } 
@Override public String getGrammarFileName() { return "<fileName>"; }

<members>

<rules; separator="\n">
<synpreds:{p | <synpred(p)>>}>

<cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n">n
</cyclicDFAs:cyclicDFA(); separator="\n
"><! dump tables for all DFA !>

<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)}>}; separator="\n">
}

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new HashMap[length(grammar.allImportedRules)]+1];</n>! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|$this.$g.delegateName() = $g.delegateName();}; separator="\n">n
</grammar.delegators:

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
ASTLabelType="Object", superClass="Parser", labelType="Token",
members={<actions.parser.members>}) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
bitsets, "TokenStream", superClass,
labelType, members, "Token",
false, ASTLabelType)>
>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
umRules, bitsets, filterMode, labelType={<ASTLabelType> }, ASTLabelType="Object",
superClass={ <if(filterMode)> <if(buildAST)>TreeRewriter </else>TreeFilter </endif> <else>TreeParser </endif> },
members={<actions.treeparser.members}> }
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
bitsets, "TreeNodeStream", superClass,
labelType, members, "Node",
filterMode, ASTLabelType)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/

synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= 
    <<
    // $ANTLR start <ruleName>
    public final void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>) throws 
    <ruleDescriptor.throwsSpec:{x|<x>}; separator=", ">
    { 
    <ruleLabelDefs()>
    <if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try {
    <block>
    }
    finally {
    traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
    <else>
    <block>
    <endif>
    }
    // $ANTLR end <ruleName>
    >>

    synpred(name) ::= <<
    public final boolean <name>() {
    state.backtracking++; 
    <@start()> 
    int start = input.mark(); 
    try {
    <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) { 
    System.err.println("impossible: "+re);
    }
    boolean success = !state.failed;
    input.rewind(start);
    <@stop()> 
    state.backtracking--; 
    state.failed=false;
    return success;
    }\n    >>

    lexerSynpred(name) ::= <<
    <synpred(name)>
    >>
ruleMemoization(name) ::= <<
@if(memoize)
if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) {
@returnStatement(([ <ruleReturnValue()> ]))
}@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (state.failed) <returnStatement(([ <ruleReturnValue()> ]))@endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if (state.backtracking>0) {state.failed=true;
@returnStatement(([ <ruleReturnValue()> ]))}@endif
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
@preamble()
try {
<ruleMemoization(name=ruleName)>
[block]
<ruleCleanUp()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
}@preamble()
try {
<ruleMemoization(name=ruleName)>
[block]
<ruleCleanUp()>
<ruleDescriptor.actions.after):execAction()>
} }
@if(exceptions)
<exceptions:{e|<catch(decl=e.decl,action=e.action)>
}@exceptions}
@if(!emptyRule)
catch (RecognitionException re) {
    reportError(re);
    recover(input,re);
    \setErrorReturnValue();
}
\endif
\endif
\endif
finally {
    // do for sure before leaving
    \if(trace)traceOut("<ruleName> ", <ruleDescriptor.index>);\endif
    \memoize()
    \ruleScopeCleanUp()
    \finally
    \@postamble()
    \returnStatement([<ruleReturnValue()>], false)
} // $ANTLR end "<ruleName>"
>>

returnStatement(returnValue, force=true) ::= <%
\if(!isEmptyString.(returnValue))
    return <returnValue>;
\elseif(force)
    return;
\endif
%>
catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>
ruleDeclarations() ::= <<
\if(ruleDescriptor.hasMoreReturnValues)
    <returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>();
    retval.start = input.LT(1);
\elseif(ruleDescriptor.returnScope)
    <ruleDescriptor.returnScope.attributes:{ a |
        <a.type> <a.name> = <if(a.initValue)<a.initValue><else><initValue(a.type)></endif>;
    }>
\endif
\if(memoize)

int <ruleDescriptor.name>_StartIndex = input.index();
</endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{it |<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{it |<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it |<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{it |<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
:{it |<labelType> <it.label.text>=null;}; separator="\n" 
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
:{it |List<Object> list_<it.label.text>=null;}; separator="\n" 
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
:{it |<labelType> <it.label.text>=null;}; separator="\n" 
>
<ruleDescriptor.charLabels:{it |int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
:{it |List<Object> list_<it.label.text>=null;}; separator="\n" 
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>

<<
<endif>
>>

<<
<endif>
>>
ruleCleanUp() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
@if(!TREE_PARSER)
retval.stop = input.LT(-1);
@endif>
@endif>
>>

memoize() ::= <<
@if(memoize)
@if(backtracking)
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
@endif>
@endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public final void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>) throws RecognitionException 
{ 
@if(trace)traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
@ruleScopeSetUp()
@ruleDeclarations()
try {
@if(nakedBlock)
@ruleMemoization(name=ruleName)
@lexerRuleLabelDefs()
@ruleDescriptor.actions.init
@block
@else>
int _type = <ruleName>;
int _channel = DEFAULT_TOKEN_CHANNEL;
@ruleMemoization(name=ruleName)
@lexerRuleLabelDefs()
@ruleDescriptor.actions.init
@block
@ruleCleanUp()
state.type = _type;
state.channel = _channel;
@((ruleDescriptor.actions.after):execAction())
@endif>
finally {
// do for sure before leaving
@if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
@Override
public void mTokens() throws RecognitionException {
<block>
}
>>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
@@predecision()>
<decision>
@@postdecision()>
@@prebranch()>
switch (alt<decisionNumber>) {
<alts:{a | <altSwitchCase(i,a)>}>}
@@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
@@predecision()>
<decision>
@@postdecision()>
switch (alt<decisionNumber>) {
<alts:{a | <altSwitchCase(i,a)>}>
ruleBlockSingleAlt( 
  alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
  // <fileName>::<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
  >>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt( 
  alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
  // <fileName>::<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
  >>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock( 
  alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
  // <fileName>::<description>
  int cnt<decisionNumber>=0;
  <decls>
  <@preloop()> 
  loop<decisionNumber>:
  while (true) {
      int alt<decisionNumber> =<maxAlt>; 
      <@predecision()>
      <decision>
      <@postdecision()> 
      switch (alt<decisionNumber>) {
        <alts:{a | <altSwitchCase(i,a)>}> 
        default : 
        if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
        <ruleBacktrackFailure()> 
        EarlyExitException eee = new EarlyExitException(<decisionNumber>, input);
        <@earlyExitException()> 
        throw eee;
      } 
      cnt<decisionNumber>++;
      } 
  <@postloop()> 
  >>

positiveClosureBlockSingleAlt ::= positiveClosureBlock
/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>::<description>
  <decls>
  <@preloop()>
  loop<decisionNumber>:
    while (true) {
      int alt<decisionNumber>=<maxAlt>;
      <@predecision()>
      <decision>
      <@postdecision()>
      switch (alt<decisionNumber>) {
        <alts:{a | <altSwitchCase(i,a)>}>
        default :
          break loop<decisionNumber>;
      }
    }
  <@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
*  so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative */
*  number. A DFA predicts the alternative and then a simple switch
*  does the jump to the code that actually matches that alternative.
*/
altSwitchCase(altNum,alt) ::= <<
  case <altNum> :
  <@prealt()>
  <alt>
  break;
>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  // <fileName>::<description>
  {
    <@declarations()>
    <elements:element()>
  }
/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
  @prematch()
  e.el
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
  if(label) <label>=(<labelType>)<endif>match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>);
  <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  <tokenRef(token,label,elementIndex,terminalOptions)>
  <listLabel(label, label)>
>>

listLabel(label,elem) ::= <<
  if (list_<label>==null) list_<label>=new ArrayList<Object>();
  list_<label>.add(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
  if(label)
  <label> = input.LA(1);
  <endif>
  match(<char>);
  <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  if(label)
  <label> = input.LA(1);
  <endif>
>>
matchRange(<a>,<b>); <checkRuleBacktrackFailure()>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
  <if(label)>
  <if(LEXER)>
  <label>= input.LA(1);
  <else>
  <label>=<castToLabelType("input.LT(1)")>;
  <endif>
  <endif>
  if ( <s> ) {
    input.consume();
    <postmatchCode>
    <if(!LEXER)>
    state.errorRecovery=false;
    <endif>
    <if(!backtracking)>state.failed=false;<endif>
  }
  else {
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    <@mismatchedSetException()>
    <if(LEXER)>
    recover(mse);
    throw mse;
    <else>
    throw mse;
    <! use following code to make it recover inline; remove throw mse; 
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>); 
    !>
    <endif>
  }

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
  <if(label)>
  int <label>Start = getCharIndex();
  match(<string>); <checkRuleBacktrackFailure()>


```java
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
match(<string>); <checkRuleBacktrackFailure>()
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)>
<label> =<castToLabelType("input.LT(1)")>;
<endif>
matchAny(input); <checkRuleBacktrackFailure>()
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<wildcard(...)>
</listLabel(label, label)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);
<endif>
matchAny(); <checkRuleBacktrackFailure>()
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
</listLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label> =<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ");
state._fsp--;
<checkRuleBacktrackFailure>()
>>
```
/** ids+=r */
ruleAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(rule,label,elementIndex,args,scope)>
  <listLabel(label, label)>
>>

/** A lexer rule reference. *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
  <if(label)>
  int <label>Start<elementIndex> = getCharIndex();
  int <label>StartLine<elementIndex> = getLine();
  int <label>StartCharPos<elementIndex> = getCharPositionInLine();
  <if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator="", ">);
  <checkRuleBacktrackFailure()>
  <label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>, getCharIndex()-1);
  <label>.setLine(<label>StartLine<elementIndex>);
  <label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
  <else>
  <if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator="", ">);
  <checkRuleBacktrackFailure()>
  <endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
  <lexerRuleRef(rule,label,args,elementIndex,scope)>
  <listLabel(label, label)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
  <if(label)>
  int <label>Start<elementIndex> = getCharIndex();
  int <label>StartLine<elementIndex> = getLine();
  int <label>StartCharPos<elementIndex> = getCharPositionInLine();
  match(EOF); <checkRuleBacktrackFailure()>
  <labelType> <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>, getCharIndex()-1);
  <label>.setLine(<label>StartLine<elementIndex>);
  <label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
  <else>
match(EOF); <checkRuleBacktrackFailure()>
</endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()\<opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>._primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
     enclosingTreeLevel, treeLevel) ::= <<
     <root:element()>
     <actionsAfterRoot:element()>
     <if(nullableChildList)>
     if ( input.LA(1)==Token.DOWN ) {
     match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
     <children:element()>
     match(input, Token.UP, null); <checkRuleBacktrackFailure()>
     }
     <else>
     match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
     <children:element()>
     match(input, Token.UP, null); <checkRuleBacktrackFailure()>
     </endif>
>>

/** Every predicate is used as a validating predicate (even when it is
*  also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(pred,description)>) ) {
<ruleBacktrackFailure()>
throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
<if(!isTrue.(last(edges).labelExpr)) && (!last(edges).predicates))>
else {
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;

---

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<else>
<ruleBacktrackFailure()>
<nvaExceptionWrapperMap.(k))((NoViableAltException nvae =
new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
<@noViableAltException()>
throw nvae;})>
<endif>
}
<endif>

nvaExceptionWrapperMap ::= [
"1":"wrapNvaExceptionForK1",
"2":"wrapNvaExceptionForK2",
default:"wrapNvaExceptionForKN"
]

wrapNvaExceptionForK1(exceptionCode) ::= <<
<exceptionCode>
>>

wrapNvaExceptionForK2(exceptionCode) ::= <<
int nvaeMark = input.mark();
try {
<exceptionCode>
} finally {
input.rewind(nvaeMark);
}
>>

wrapNvaExceptionForKN(exceptionCode) ::= <<
int nvaeMark = input.mark();
try {
for (int nvaeConsume = 0; nvaeConsume < <k> - 1; nvaeConsume++) {
input.consume();
}
<exceptionCode>
} finally {
input.rewind(nvaeMark);
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
 contemplated


def OptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
  <edges; separator="|else ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
  <edges; separator="|else ">
  <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
  <else>
    alt<decisionNumber>=<eotPredictsAlt>;
  </endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
  if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
    <targetState
  }</endif>
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  switch ( input.LA(<k>) ) {
    default:
      <if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<nvaExceptionWrapperMap.(k)>({NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
<@noViableAltException()>
throw nvae;})>
<endif>
}
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
}
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
<if(eotPredictsAlt)>
default:
alt<decisionNumber>=<eotPredictsAlt>;
break;
<endif>
}
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it |case <it>:}; separator="\n">
{
<targetState>
}
break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber>=dfa<decisionNumber>.predict(input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
*/
These strings are split into multiple, concatenated strings.
Java puts them back together at compile time thankfully.
Java cannot handle large static arrays, so we're stuck with this
encode/decode approach. See analysis and runtime DFA for
the encoding methods.

```
cyclicDFA(dfa) ::= <<
static final String DFA<dfa.decisionNumber>_eotS =
  "<dfa.javaCompressedEOT; wrap="\n\t">";
static final String DFA<dfa.decisionNumber>_eofS =
  "<dfa.javaCompressedEOF; wrap="\n\t">";
static final String DFA<dfa.decisionNumber>_minS =
  "<dfa.javaCompressedMin; wrap="\n\t">";
static final String DFA<dfa.decisionNumber>_maxS =
  "<dfa.javaCompressedMax; wrap="\n\t">";
static final String DFA<dfa.decisionNumber>_acceptS =
  "<dfa.javaCompressedAccept; wrap="\n\t">";
static final String DFA<dfa.decisionNumber>_specialS =
  "<dfa.javaCompressedSpecial; wrap="\n\t">";
static final String[] DFA<dfa.decisionNumber>_transitionS = {
  <dfa.javaCompressedTransition: [s|"<s; wrap="\n">"] separator="\n">};

static final short[] DFA<dfa.decisionNumber>_eot =
  DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static final short[] DFA<dfa.decisionNumber>_eof =
  DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);
static final char[] DFA<dfa.decisionNumber>_min =
  DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static final char[] DFA<dfa.decisionNumber>_max =
  DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static final short[] DFA<dfa.decisionNumber>_accept =
  DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static final short[] DFA<dfa.decisionNumber>_special =
  DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static final short[][] DFA<dfa.decisionNumber>_transition;
static {
  int numStates = DFA<dfa.decisionNumber>_transitionS.length;
  DFA<dfa.decisionNumber>_transition = new short[numStates][];
  for (int i=0; i<numStates; i++) {
    DFA<dfa.decisionNumber>_transition[i] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
  }
}

protected class DFA<dfa.decisionNumber> extends DFA {

  public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {

```

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this.recognizer = recognizer;
this.decisionNumber = <dfa.decisionNumber>;
this.eot = DFA<dfa.decisionNumber>_eot;
this.eof = DFA<dfa.decisionNumber>_eof;
this.min = DFA<dfa.decisionNumber>_min;
this.max = DFA<dfa.decisionNumber>_max;
this.accept = DFA<dfa.decisionNumber>_accept;
this.special = DFA<dfa.decisionNumber>_special;
this.transition = DFA<dfa.decisionNumber>_transition;
}
@Override
public String getDescription() {
    return "<dfa.description>";
}
<@errorMethod()>
@if(dfa.specialStateSTs)
@Override
public int specialStateTransition(int s, IntStream _input) throws NoViableAltException {
    IntStream input = _input;
    <endif>
    <if(PARSER)>
    TokenStream input = (TokenStream)_input;
    <endif>
    <if(TREE_PARSER)>
    TreeNodeStream input = (TreeNodeStream)_input;
    <endif>
    int _s = s;
    switch ( s ) {
        <dfa.specialStateSTs:{state |
        case <i0> : <! compressed special state numbers 0..n-1 !>
        <state>}; separator="\n">
    }<if(backtracking)>
    if (state.backtracking>0) {state.failed=true; return -1;}
    <endif>
    NoViableAltException nvae =
    new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input);
    error(nvae);
    throw nvae;
    }
    <endif>
    }
    }>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
  int LA<decisionNumber>_<stateNumber> = input.LA(1);
  <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
  int index<decisionNumber>_<stateNumber> = input.index();
  input.rewind();
  <endif>
  s = -1;
  <edges; separator="\nelse ">
  <if(semPredState)> <! return input cursor to state before we rewound !>
  input.seek(index<decisionNumber>_<stateNumber>);
  <endif>
  if ( s>=0 ) return s;
  break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
  if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
  s = <targetStateNumber>;
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<operands; separator="\n||">)"

notPredicate(pred) ::= "!(<evalPredicate(pred, { })>)"

evalPredicate(pred, description) ::= "(<pred>)"
evalSynPredicate(pred, description) ::= "<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom, k, atomAsInt) ::= "input.LA(<k>)==<atom>"
lookaheadRangeTest(lower, upper, k, randomNumber, lowerAsInt, upperAsInt) ::= <%
(LA<decisionNumber>_<stateNumber> >= <lower> && LA<decisionNumber>_<stateNumber> <= <upper>)
%>

isolatedLookaheadRangeTest(lower, upper, k, randomNumber, lowerAsInt, upperAsInt) ::= "(input.LA(<k>) >= <lower>
&& input.LA(<k>) <= <upper>)"

setTest(ranges) ::= <<
<ranges; separator="||">
>>

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
  <if(scope.attributes)>
  protected static class <scope.name>_scope {
  <scope.attributes:{it |<it.decl>;}; separator="\n"}
  }
  protected Stack<<scope.name>_scope> _scope = new Stack<<scope.name>_scope();
  <endif>
  >>

ruleAttributeScope(scope) ::= <<
  <if(scope)>
  <if(scope.attributes)>
  protected static class <scope.name>_scope {
  <scope.attributes:{it |<it.decl>;}; separator="\n"}
  }
  protected Stack<<scope.name>_scope> _scope = new Stack<<scope.name>_scope();
  <endif>
  <endif>
  >>

returnStructName(r) ::= "<r.name>_return"

returnType(ruleDescriptor) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
  <elseif(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnTypeName>
  <else>
  void
  <endif>
%>

/** Generate the Java type associated with a single or multiple return values.*/
ruleLabelType(referencedRule) ::= <%
    <if(referencedRule.hasMultipleReturnValues)>
    <returnScopeBaseType()>
    <elseif(referencedRule.hasSingleReturnValue)>
    <referencedRule.singleValueReturnType>
    <else>
    void
    <endif>
%>

delegateName(d) ::= <<
    <if(d.label)><d.label><else>g<d.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
    <ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
    <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
%>

/** Define a return struct for a rule if the code needs to access its
*  start/stop tokens, tree stuff, attributes, ... Leave a hole for
*  subgroups to stick in members.
*/
returnScope(scope) ::= <<
    <if(ruleDescriptor.hasMultipleReturnValues)>
    public static class <ruleDescriptor:returnStructName()> extends <returnScopeBaseType()> {
        <if(scope)><scope.attributes:{it |public <it.decl>;}; separator="\n">;
            <@ruleReturnMembers()>
        }
        <endif>
    };
    <endif>
>>

returnScopeBaseType() ::= <%
    <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
%>

parameterScope(scope) ::= <<
    <scope.attributes:{it |<it.decl>}; separator="", ">
>>
parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1).<attr.name>
  <else>
  <if(index)>
  <scope>_stack.elementAt(<index>).<attr.name>
  <else>
  <scope>_stack.peek().<attr.name>
  <endif>
  <endif>
  %>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1).<attr.name> =<expr>;
  <else>
  <if(index)>
  <scope>_stack.elementAt(<index>).<attr.name> =<expr>;
  <else>
  <scope>_stack.peek().<attr.name> =<expr>;
  <endif>
  <endif>
  %>

/** $x is either global scope or x is rule with dynamic scope: refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
  (scope!=null?((<returnType(referencedRule)>)<scope>).<attr.name>:<initValue(attr.type)>)
  <else>
  <scope>
  <endif>
  %>

returnAttributeRef(ruleDescriptor,attr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name>
  <else>
  <attr.name>
  %>
returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <%<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>%>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
tokenLabelPropertyRef_text(scope, attr) ::= "((scope)!null?(scope).getText():null)"
tokenLabelPropertyRef_type(scope, attr) ::= "((scope)!null?(scope).getType():0)"
tokenLabelPropertyRef_line(scope, attr) ::= "((scope)!null?(scope).getLine():0)"
tokenLabelPropertyRef_pos(scope, attr) ::= "((scope)!null?(scope).getCharPositionInLine():0)"
tokenLabelPropertyRef_channel(scope, attr) ::= "((scope)!null?(scope).getChannel():0)"
tokenLabelPropertyRef_index(scope, attr) ::= "((scope)!null?(scope).getTokenIndex():0)"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope, attr) ::= "((scope)!null?Integer.valueOf((scope).getText()):0)"

ruleLabelPropertyRef_start(scope, attr) ::= "((scope)!null?((castToLabelType({<scope>.start})):null))"
ruleLabelPropertyRef_stop(scope, attr) ::= "((scope)!null?((castToLabelType({<scope>.stop})):null))"
ruleLabelPropertyRef_tree(scope, attr) ::= "((scope)!null?((ASTLabelType)<scope>.getTree()):null)"
ruleLabelPropertyRef_text(scope, attr) ::= <%
<if(TREE_PARSER)>
((scope)!null?(input.getTokenStream().toString(     input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
input.getTreeAdaptor().getTokenStopIndex(<scope>.start))):null)
<else>
((scope)!null?input.toString(<scope>.start, <scope>.stop)):null)
<endif>%>

ruleLabelPropertyRef_st(scope, attr) ::= "((scope)!null?((StringTemplate)<scope>.getTemplate()):null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabelRef(label) ::= "<label>

lexerRuleLabelPropertyRef_type(scope, attr) ::=
"(<scope>!=null?<scope>.getType():0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.getLine():0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.getCharPositionInLine():-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.getChannel():0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.getTokenIndex():0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.getText():null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(<castToLabelType("retval.start")>)"
rulePropertyRef_stop(scope,attr) ::= "(<castToLabelType("retval.stop")>)"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <%
  <if(TREE_PARSER>)
  input.getTokenStream().toString(
    input.getTreeAdaptor().getTokenStartIndex(retval.start),
    input.getTreeAdaptor().getTokenStopIndex(retval.start))
  <else>
  input.toString(retval.start,input.LT(-1))
  <endif>
%
"retval.st"
rulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree谔<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st谔<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
  <if(backtracking>)

  if ( <actions.(actionScope).synpredgate> ) {
<action>
</action>
<else>
<action>
<endif>
%

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)
bitset(name, words64) ::= <<
public static final BitSet <name> = new BitSet(new long[]{<words64:{it |<it>L};separator=""," }));
>>

codeFileExtension() ::= ".java"

true_value() ::= "true"
false_value() ::= "false"

isEmptyString ::= [
"" : true,
default : false
]

isTrue ::= [
"true" : true,
default : false
]

isDefaultLabelType ::= [
"Token" : true,
default : false
]

isPredefinedRewriteRule ::= [
"topdown" : true,
"bottomup" : true,
default : false
]

castToLabelType(value) ::= <%
<if(!isDefaultLabelType.(labelType))>
(<labelType>)
<endif>
<value>
%>
/*
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 * http://www.linkedin.com/in/jimidle
 * 
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*/

/** Template overrides to add debugging to normal C output; 
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
const char *
ruleNames[] =
{
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="", ">
};\n
<endif>
<if(grammar.grammarIsRoot)>
static ANTLR3_UINT32 ruleLevel = 0;
</if>
static ANTLR3_UINT32 getRuleLevel()
{
    return ruleLevel;
}
static void incRuleLevel()
{
    ruleLevel++;
}
static void decRuleLevel()
{
    ruleLevel--;
}

static ANTLR3_UINT32
getRuleLevel()
{
    return <grammar.delegators:{g| <g:delegateName()>}>->getRuleLevel();
}
static void incRuleLevel()
{
    <grammar.delegators:{g| <g:delegateName()>}>->incRuleLevel();
}
static void
decRuleLevel()
{
    <grammar.delegators:{g| <g:delegateName()>}>.decRuleLevel();
}

static ANTLR3_BOOLEAN
evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
    DBG->semanticPredicate(DBG, result, predicate);
    return result;
}<\n>
>>

@genericParser.debugStuff() ::= <<
@if(grammar.grammarIsRoot)>
<ctorForPredefinedListener()>
<else>
<ctorForDelegateGrammar()>
@endif>

static ANTLR3_BOOLEAN
evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
    DBG->semanticPredicate(DBG, result, predicate);
    return result;
}<\n>
>>

@genericParser.debugStuff() ::= <<
@if(grammar.grammarIsRoot)>
<ctorForPredefinedListener()>
<else>
<ctorForDelegateGrammar()>
@endif>
ctorForProfilingRootGrammar() ::= <<
>>
 /**< Basically we don't want to set any dbg listeners as root will have it. */
ctorForDelegateGrammar() ::= <<
>>
ctorForPredefinedListener() ::= <<
>>
createListenerAndHandshake() ::= <<
{
    // DEBUG MODE code
    //
    pANTLR3_DEBUG_EVENT_LISTENER	 proxy;
    proxy = antlr3DebugListenerNew();
    proxy->grammarFileName = INPUT->tokenSource->strFactory->newStr8(INPUT->tokenSource->strFactory,
        (pANTLR3_UINT8)ctx->getGrammarFileName());
    <if(TREE_PARSER)>
    proxy->adaptor = ADAPTOR;
    <endif>
    PARSER->setDebugListener(PARSER, proxy);
    // Try to connect to the debugger (waits forever for a connection)
    //
    proxy->handshake(proxy);
    // End DEBUG MODE code
    //
    
}>
>>

@rule.preamble() ::= <<
if ( getRuleLevel()==0 )
{
    DBG->commence(DBG);
}
DBG->enterRule(DBG, getGrammarFileName(), (const char *)"<ruleName>";)
incRuleLevel();
DBG->location(DBG, <ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);\n
@rule.postamble() ::= <<
DBG->location(DBG, <ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);<\n>
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
if ( getRuleLevel()==0 )
{
DBG->terminate(DBG);
}
<<
>>

@checkRuleBacktrackFailure.debugClean() ::= <<
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
>>

@synpred.start() ::= "DBG->beginBacktrack(DBG, BACKTRACKING);"
@synpred.stop() ::= "DBG->endBacktrack(DBG, BACKTRACKING, success);"

// Common debug event triggers used by region overrides below
enterSubRule() ::= "DBG->enterSubRule(DBG, <decisionNumber>);<\n>"
exitSubRule() ::= "DBG->exitSubRule(DBG, <decisionNumber>);<\n>"
enterDecision() ::= "DBG->enterDecision(DBG, <decisionNumber>);<\n>"
exitDecision() ::= "DBG->exitDecision(DBG, <decisionNumber>);<\n>"
enterAlt(n) ::= "DBG->enterAlt(DBG, <n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers
@block.predecision() ::= "<enterSubRule()><enterDecision()>"
@block.postdecision() ::= "<exitDecision()>"
@block.postbranch() ::= "<exitSubRule()>"
@ruleBlock.predecision() ::= "<enterDecision()>"
@ruleBlock.postdecision() ::= "<exitDecision()>">

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>">

@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>">

@positiveClosureBlock.preloop() ::= "<enterSubRule()>">

@positiveClosureBlock.postloop() ::= "<exitSubRule()>">

@positiveClosureBlock.predecision() ::= "<enterDecision()>">

@positiveClosureBlock.postdecision() ::= "<exitDecision()>">

@positiveClosureBlock.earlyExitException() ::= "DBG->recognitionException(DBG, EXCEPTION);<\n>">

@closureBlock.preloop() ::= "<enterSubRule()>">

@closureBlock.postloop() ::= "<exitSubRule()>">

@closureBlock.predecision() ::= "<enterDecision()>">

@closureBlock.postdecision() ::= "<exitDecision()>">

@altSwitchCase.prealt() ::= "<enterAlt(altNum)>">

@element.prematch() ::= "DBG->location(DBG, <e.line>, <e.pos>);" // e is arg of element

@matchSet.mismatchedSetException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

@newNVException.noViableAltException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM, &cdfa<decisionNumber>);
if ! (HASEXCEPTION())
{
DBG->recognitionException(DBG, EXCEPTION);
goto rule<ruleDescriptor.name>Ex;
}
<checkRuleBacktrackFailure()>
>>

@cyclicDFA.errorMethod() ::= <<
//static void

//dfaError(p<name> ctx)
//{
//    DBG->recognitionException(DBG, EXCEPTION);
//}
//>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(ctx, <pred>, (const char *)"<description>")
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/Dbg.stg
No license file was found, but licenses were detected in source scan.

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*/

/** Templates for building ASTs during normal parsing. */
Dealing with many combinations. Dimensions are:

- Auto build or rewrite
- no label, label, list label (label/no-label handled together)
- child, root
- token, set, rule, wildcard

The situation is not too bad as rewrite (->) usage makes ^ and ! invalid. There is no huge explosion of combinations.

```
group ASTParser;

@rule.setErrorReturnValue() ::= <<
RetVal.Tree := Adaptor.ErrorNode(Input, RetVal.Start as IToken,
Input.LT(-1), RE) as I<ASTLabelType>;
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...>)
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<label>_tree := <createNodeFromToken(...)>
Adaptor.AddChild(Root[0], <label>_tree);
<if(backtracking)>
end;
<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...>)
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<label>_tree := <createNodeFromToken(...)>
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
>>
```
/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<labelLabel(elem=label,...)>>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...>)
<labelLabel(elem=label,...)>>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
<tokenRefRuleRoot(...>)
<labelLabel(elem=label,...)>>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={if(backtracking)>if (State.Backtracking = 0) then
<endif>Adaptor.AddChild(Root[0], <createNodeFromToken(...)>);})>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labellType>;<
@endef>
<super.matchSet(,..., postmatchCode={ <if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<createNodeFromToken(...), Root[0]) as I<ASTLabelType>;})>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0]) as I<ASTLabelType>;
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)
<label>...>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)
<label>...>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)
<label>...>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (State.Backtracking = 0) then

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0]) as I<ASTLabelType>;
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)
<label>...>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)
<label>...>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)
<label>...>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (State.Backtracking = 0) then

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0]) as I<ASTLabelType>;
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)
<label>...>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)
<label>...>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)
<label>...>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (State.Backtracking = 0) then

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0]) as I<ASTLabelType>;
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)
<label>...>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)
<label>...>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)
<label>...>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (State.Backtracking = 0) then
begin
<label>._tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Adaptor.AddChild(Root[0], <label>._tree);
@if(backtracking)
end;
<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...>)
@if(backtracking)
if (State.Backtracking = 0) then
begin
<endif>
<label>._tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Root[0] := Adaptor.BecomeRoot(<label>._tree, Root[0]) as I<ASTLabelType>;
@if(backtracking)
end;
<endif>
>>

createNodeFromToken(label,terminalOptions) ::= <<
@if(terminalOptions.node)
T<terminalOptions.node>.Create(<label>) <! new MethodNode(IDLabel) !>
<else>
Adaptor.CreateNode(<label>) as I<ASTLabelType>
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
@if(backtracking)
if (State.Backtracking = 0) then
begin<\n>
<endif>
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
@if(!TREE_PARSER)
Adaptor.SetTokenBoundaries(RetVal.Tree, RetVal.Start as IToken, RetVal.Stop as IToken);
@endif
@if(backtracking)
<\n>end;
<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Delphi/ASTParser.stg
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*/
/** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
@outputFile.imports() ::= <<
<@super.imports()>
import org.antlr.runtime.debug.*;
import java.io.IOException;
>>
@genericParser.members() ::= <<
@if(grammar.grammarIsRoot)
public static final String[] ruleNames = new String[] {
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n\t", separator=", ">
};
@endif
public static final boolean[] decisionCanBacktrack = new boolean[] {
false, // invalid decision
public int ruleLevel = 0;
public int getRuleLevel() { return ruleLevel; }
public void incRuleLevel() { ruleLevel++; }
public void decRuleLevel() { ruleLevel--; }

ctorForProfilingRootGrammar()
<else>
ctorForRootGrammar()
<endif>
ctorForPredefinedListener()
<else><! imported grammar !>
public int getRuleLevel() { return <grammar.delegators:{g| <g:delegateName()>}>.getRuleLevel(); }
public void incRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.incRuleLevel(); }
public void decRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.decRuleLevel(); }
ctorForDelegateGrammar()
<endif>

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
int stopIndex = getRuleMemoization(ruleIndex, input.index());
((Profiler)dbg).examineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return super.alreadyParsedRule(input, ruleIndex);
}

@Override
public void memoize(IntStream input,
int ruleIndex,
int ruleStartIndex)
{
((Profiler)dbg).memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
super.memoize(input, ruleIndex, ruleStartIndex);
}

protected boolean evalPredicate(boolean result, String predicate) {
dbg.semanticPredicate(result, predicate);
return result;
}

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input) {
this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState());
public <name>(<inputStreamType> input, int port, RecognizerSharedState state) {
    super(input, state);
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"> @finally()}
} \n>

ctorForProfilingRootGrammar() ::= <<
    public <name>(<inputStreamType> input) {
        this(input, new Profiler(null), new RecognizerSharedState());
    }
    public <name>(<inputStreamType> input, DebugEventListener dbg, RecognizerSharedState state) {
        super(input, dbg, state);
        Profiler p = (Profiler)dbg;
        p.setParser(this);
        <parserCtorBody()>
        <grammar.directDelegates:
            {g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"> @finally()}
    } \n>
>>

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
    public <name>(<inputStreamType> input, DebugEventListener dbg, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>) {
        super(input, dbg, state);
        <parserCtorBody()>
        <grammar.directDelegates:
            {g|<g:delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"> @finally()}
    } \n>
>>

cctorForPredefinedListener() ::= <<
    public <name>(<inputStreamType> input, DebugEventListener dbg) {
        <@superClassRef>super(input, dbg, new RecognizerSharedState());<@end>
        if(profile)
        Profiler p = (Profiler)dbg;
        p.setParser(this);
        <endiParser>
createListenerAndHandshake ::= <<
@if(TREE_PARSER)
DebugEventSocketProxy proxy =
new DebugEventSocketProxy(this, port, input.getTreeAdaptor());
@else
DebugEventSocketProxy proxy =
new DebugEventSocketProxy(this, port, null);
@endif
setDebugListener(proxy);
try {
proxy.handshake();
} catch (IOException ioe) {
reportError(ioe);
}
>>

@genericParser.superClassName ::= "Debug<@super.superClassName()>

@rule.preamble ::= <<
try { dbg.enterRule(getGrammarFileName(), "<ruleName>");
if ( getRuleLevel()==0 ) {dbg.commence();}
incRuleLevel();
dbg.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine>);
}@rule.postamble ::= <<
dbg.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
finally {
dbg.exitRule(getGrammarFileName(), "<ruleName>");
decRuleLevel();
if ( getRuleLevel()==0 ) {dbg.terminate();}
}@synpred.start ::= "dbg.beginBacktrack(state.backtracking);"
@synpred.stop ::= "dbg.endBacktrack(state.backtracking, success);"
// Common debug event triggers used by region overrides below
enterSubRule() ::= 
"try { dbg.enterSubRule(<decisionNumber>);\n}"

exitSubRule() ::= 
"} finally {dbg.exitSubRule(<decisionNumber>);};\n"

enterDecision() ::= 
"try { dbg.enterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);};\n"

exitDecision() ::= 
"} finally {dbg.exitDecision(<decisionNumber>);};\n"

enterAlt(n) ::= "dbg.enterAlt(<n>);\n"

// Region overrides that tell various constructs to add debugging triggers
@block.predecision() ::= "<enterSubRule()> <enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::= 
"dbg.recognitionException(eee);\n"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"
@closureBlock.postdecision() ::= "<exitDecision()>

@altSwitchCase.prealt() ::= "<enterAlt(altNum)>" // altNum is arg of altSwitchCase

@element.prematch() ::= "dbg.location(<e.line>,<e.pos>);" // e is arg of element

@matchSet.mismatchedSetException() ::= "dbg.recognitionException(mse);"

@dfaState.noViableAltException() ::= "dbg.recognitionException(nvae);"

@dfaStateSwitch.noViableAltException() ::= "dbg.recognitionException(nvae);"

dfaDecision(decisionNumber,description) ::= <<
  try {
    isCyclicDecision = true;
    <super.dfaDecision(...)>
  }
  catch (NoViableAltException nvae) {
    dbg.recognitionException(nvae);
    throw nvae;
  }
>>

@cyclicDFA.errorMethod() ::= <<
  public void error(NoViableAltException nvae) {
    dbg.recognitionException(nvae);
  }
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(<pred>,"<description>")
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/Dbg.stg
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/*

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*/
/** Template overrides to add debugging to normal Java output;
*  If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
@if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames =
new string[]{
  "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="", ">
};<\n
<endif>
@if(grammar.grammarIsRoot)<! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } } 
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
<if(profile)>
<ctorForProfilingRootGrammar()>
<else>
<ctorForRootGrammar()>
<else><! imported grammar !>
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>}>.RuleLevel; } } 
public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.IncRuleLevel(); }
public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.DecRuleLevel(); }
<ctorForDelegateGrammar()>
<endif>
@if(profile)>
public override bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
  int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
  ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
  <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return base.AlreadyParsedRule(input, ruleIndex);
}

public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
base.Memoize(input, ruleIndex, ruleStartIndex);
}

protected virtual bool EvalPredicate( bool result, string predicate )
{
  dbg.SemanticPredicate( result, predicate );
return result;
}

ctorForRootGrammar() ::= <<
<! bug: can't use @super.members() cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
}
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, int port,
RecognizerSharedState state )
: base( input, state )
{
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n">
<parserCtorBody()>
<@finally()>
]\\n>
>>

torForProfilingRootGrammar() ::= <<
<! bug: can't use @super.members() cut-n-paste instead !>
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
: this( input, new Profiler(null), new RecognizerSharedState() )
{
}
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg,
RecognizerSharedState state )
: base( input, dbg, state )
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<grammar.directDelegates:
ctorForDelegateGrammar() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
: base( input, dbg, state )
{
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, this, this.state<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n"}
<parserCtorBody()>
}@finally()}
>

ctorForPredefinedListener() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg )
}@superClassRef>: base( input, dbg, new RecognizerSharedState() )}@end
{
@if(profile)
Profiler p = (Profiler)dbg;
p.setParser(this);
@end
<grammar.directDelegates:{g|<g:delegateName>() = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}>);}; separator="\n"}
<parserCtorBody()>
}@finally()}
>

createListenerAndHandshake() ::= <<
@if(TREE_PARSER)
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );\n@end
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );\n@end
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
  ReportError( ioe );
}

@genericParser.superClassName() ::= "Debug<@super.superClassName()>

/*
* Much of the following rules were merged into CSharp3.stg.
*/

@rule.preamble() ::= <<
if (RuleLevel == 0)
  DebugListener.Commence();
IncRuleLevel();
>>
//@rule.preamble() ::= <<
//try
//{
  //dbg.EnterRule( GrammarFileName, "<ruleName>" );
  //if ( RuleLevel == 0 )
  //{
    //dbg.Commence();
  //}
  //IncRuleLevel();
  //dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );
//}
//>>

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
  DebugListener.Terminate();
>>
//@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
//}
//finally
//{
  //dbg.ExitRule( GrammarFileName, "<ruleName>" );
  //DecRuleLevel();
  //if ( RuleLevel == 0 )
  //{
    //dbg.Terminate();
  //}
  //</n>
//>>
//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

//@block.predecision() ::= "<enterSubRule()> <enterDecision()>
//@block.postdecision() ::= "<exitDecision()>
//@block.postbranch() ::= "<exitSubRule()>
//@ruleBlock.predecision() ::= "<enterDecision()>
//@ruleBlock.postdecision() ::= "<exitDecision()>
//@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>"
//@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>"
//@positiveClosureBlock.preloop() ::= "<enterSubRule()>
//@positiveClosureBlock.postloop() ::= "<exitSubRule()>
//@positiveClosureBlock.predecision() ::= "<enterDecision()>
//@positiveClosureBlock.postdecision() ::= "<exitDecision()>
//@positiveClosureBlock.earlyExitException() ::= 
	"dbg.RecognitionException( eee<decisionNumber> );<\n>"
//@closureBlock.preloop() ::= "<enterSubRule()>
//@closureBlock.postloop() ::= "<exitSubRule()>
//@closureBlock.predecision() ::= "<enterDecision()>
//@closureBlock.postdecision() ::= "<exitDecision()>
//@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"
//@element.prematch() ::= 
="/dbg.Location( <it.line>, <it.pos> );"
//@matchSet.mismatchedSetException() ::= 
="/dbg.RecognitionException( mse );"
//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"
//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"
//dfaDecision(decisionNumber,description) ::= <<
//try
//{
//isCyclicDecision = true;
//<super.dfaDecision(...)>
//}
//catch ( NoViableAltException nvae )
//{
//dbg.RecognitionException( nvae );
//throw nvae;
//}
//>>
//@cyclicDFA.errorMethod() ::= <<
//public override void Error( NoViableAltException nvae )
///<
<((DebugParser)recognizer).dbg.RecognitionException( nvae );
///<
///<
/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>, "<description>")
>>

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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/antlr/codegen/templates/CSharp3/Dbg.stg
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*/

@outputFile.imports() ::= <<
<@super.imports()>
>>

---
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/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  protected TreeAdaptor adaptor = new CommonTreeAdaptor();
setTreeAdaptor: function(adaptor) {
  this.adaptor = adaptor;
  <grammar.directDelegates:{g|<g.delegateName()>.setTreeAdaptor(this.adaptor);}>,
},
getTreeAdaptor: function() {
  return this.adaptor;
},
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  var root_0 = null;
>>

ruleLabelDefs() ::= <<
  <super.ruleLabelDefs()>
  <ruleDescriptor.tokenLabels:{var <it.label.text>_tree=null;}; separator="\n">
  <ruleDescriptor.tokenListLabels:{var <it.label.text>_tree=null;}; separator="\n">
  <ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleTokenStream(this.adaptor,"token <it>");}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
  <if(autoAST)>
  <if(outerAlt)>
  ```
  ```
// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<
>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite. *
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)> <listLabel(elem=label,...)>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<
>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)> <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>

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/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...>)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+.getTree(),...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedRuleLabels,
referencedRuleListLabels,
    referencedWildcardLabels,
    referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<
<endif>
<p>root_0 = this.adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<if(TREE_PARSER>)
<if(rewriteMode)>
<p>root_0 = this.adaptor.rulePostProcessing(root_0);
this.input.replaceChildren(this.adaptor.getParent(retval.start),
    this.adaptor.getChildIndex(retval.start),
</p>
this.adaptor.getChildIndex(_last),
retval.tree);

</endif>
</endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef().tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef().tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>",<it>);};
    separator="\n"
  >
<referencedTokenListLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>", list_<it>);};
    separator="\n"
  >
<referencedWildcardLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",<it>);};
    separator="\n"
  >
<referencedWildcardListLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",list_<it>);};
    separator="\n"
  >
<referencedRuleLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token
<it>",<it>!=null?<it>.tree:null);};
    separator="\n"
  >
<referencedRuleListLabels
  :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>",list_<it>);};
    separator="\n"
  >
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
/* list rather shallow like other blocks. */
rewriteOptionalBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
    // <fileName>:<description>
    if ( <referencedElementsDeep:{el | stream_<el>.hasNext(); separator="||"> ) { 
        <alt>
    }
    <referencedElementsDeep:{el | stream_<el>.reset();
}>
>>

rewriteClosureBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
    // <fileName>:<description>
    while ( <referencedElements:{el | stream_<el>.hasNext(); separator="||"> ) { 
        <alt>
    }
    <referencedElements:{el | stream_<el>.reset();
}>
>>

rewritePositiveClosureBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
    if ( !(<referencedElements:{el | stream_<el>.hasNext(); separator="||">) ) { 
        throw new org.antlr.runtime.tree.RewriteEarlyExitException();
    }
    while ( <referencedElements:{el | stream_<el>.hasNext(); separator="||"> ) { 
        <alt>
    }
    <referencedElements:{el | stream_<el>.reset();
}>
>>

rewriteAlt(a) ::= <<
    // <a.description>
    <if(a.pred)>
    if (<a.pred>) { 
        <a.alt>
/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<_treeLevel> = this.adaptor.nil();
<br:rewriteElement()>
<children:rewriteElement()>
this.adaptor.addChild(root_<_enclosingTreeLevel>, root_<_treeLevel>);
} <<
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
<br:pregen()>
<e.el>
>>

/** Gen ID or ID[<args>] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
this.adaptor.addChild(root_<_treeLevel>, <createRewriteNodeFromElement(...)>);<
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<_treeLevel>, stream_<label>.nextNode());<
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<_treeLevel>, stream_<label>.nextNode());<
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<_treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<_treeLevel>);<
>>
/** Gen (^{$label ...} where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen (^{ID ...} or (^{ID[...]} */
rewriteTokenRefRoot(token,elementIndex,terminalOptions, args) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...), root_<treeLevel>);<\n
rewriteImaginaryTokenRef(args, token, terminalOptions, elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n
rewriteImaginaryTokenRefRoot(args, token, terminalOptions, elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...), root_<treeLevel>);<\n
/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n
/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n
rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);<\n
rewriteNodeAction(action) ::= <<
this.adaptor.addChild(root_<treeLevel>, <action>);<\n
rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<action>, root_<treeLevel>);<\n
/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n
Open Source Used In Data Center Network Manager 11.5(1) 14947
/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());\n>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);\n>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);\n>>

rewriteWildcardLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());\n>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>({tokenType}<if(args)>, <args; separator=", "><endif>)
<else>
this.adaptor.create({tokenType}, <args; separator=", "><if(!args)>{tokenType}<elseностей><endif>)
<endif>
>>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.nextToken(){if(args)}, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
this.adaptor.create({token}, <args; separator=", "><endif>)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/JavaScript/AST.stg
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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
{
get
{
return adaptor;
}
set
{
<if(grammar.grammarIsRoot)>
this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
<else>
this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>}

parserCtorBody() ::= <<
  <super.parserCtorBody>
>>

createListenerAndHandshake() ::= <<
  DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,
  <if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif> );
  DebugListener = proxy;
  <inputStreamType> = new Debug<inputStreamType>( input, proxy );
  try
  {
    proxy.Handshake();
  }
  catch ( IOException ioe )
  {
    ReportError( ioe );
  }
>>

@ctorForRootGrammar.finally() ::= <<
  ITreeAdaptor adap = new CommonTreeAdaptor();
  TreeAdaptor = adap;
  proxy.TreeAdaptor = adap;
>>

@ctorForProfilingRootGrammar.finally() ::=<<
  ITreeAdaptor adap = new CommonTreeAdaptor();
  TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= ": base( input, dbg )"

@ctorForPredefinedListener.finally() ::=<<
  <if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>
    ITreeAdaptor adap = new CommonTreeAdaptor();
    TreeAdaptor = adap;
  </endif>
>>

//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"
No license file was found, but licenses were detected in source scan.

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*/
scalaTypeInitMap ::= [
  "Int"":"0",
  "Long"":"0",
  "Float"":"0.0f",
  "Double"":"0.0",
  "Boolean"":"false",
  "Byte"":"0",
  "Short"":"0",
  "Char"":"0",
  default:"null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, 
docComment, recognizer, 
    name, tokens, tokenNames, rules, cyclicDFAs, 
    bitsets, buildTemplate, buildAST, rewriteMode, profile, 
    backtracking, synpreds, memoize, numRules, 
    fileName, ANTLRVersion, generatedTimestamp, trace, 
    scopes, superClass, literals) ::= 
    <<
    // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
    <actions.(actionScope).header>

    <!-- imports -->
    import org.antlr.runtime._
    <if(TREE_PARSER)>
    import org.antlr.runtime.tree._
    <endif>
    <@end>

    <docComment>
    <recognizer>
    >>

    lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken", 
        superClass="Lexer"): = <<
    object <grammar.recognizerName> {
        <tokens:{it | val <it.name> = <it.type}>; separator="\n">

        <cyclicDFAs:cyclicDFA>() <! dump tables for all DFA !>
    }

    class <grammar.recognizerName>(input: CharStream, state<grammar.delegators:{g|, <g.recognizerName> 
        <g:delegateName()>}>: RecognizerSharedState) extends <@superClassName><superClass><@end>(input, 
        state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
    {
        import <grammar.recognizerName>._
        <actions.lexer.members>

        // delegates
        <grammar.delegates:
        {
        <g| <g.recognizerName> <g:delegateName()>}; separator="\n">
        // delegators
        <grammar.delegates:
        {
        <g| <g.recognizerName> <g:delegateName()>}; separator="\n">
        <last(grammar.delegators):{g|public <g.recognizerName> gParent;}> 

        <scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScope()>}<globalAttributeScope()>}<endif}> 

        def this(input<grammar.delegators:{g, <g.recognizerName> <g:delegateName()>}>: CharStream) = 
            this(input, new RecognizerSharedState()<grammar.delegators:{g, <g:delegateName()>}>))
override def getGrammarFileName = "<fileName>"

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
override def nextToken(): Token = {
while (true) {
if ( input.LA(1)==CharStream.EOF ) {
    var eof: Token = new CommonToken((CharStream)input,Token.EOF,
        Token.DEFAULT_CHANNEL,
        input.index(),input.index())
    eof.setLine(getLine())
    eof.setCharPositionInLine(getCharPositionInLine())
    return eof
}
    state.token = null
    state.channel = Token.DEFAULT_CHANNEL
    state.tokenStartCharIndex = input.index()
    state.tokenStartCharPositionInLine = input.getCharPositionInLine()
    state.tokenStartLine = input.getLine()
}
state.text = null
try {
  val m = input.mark()
  state.backtracking=1 <! means we won't throw slow exception !>
  state.failed=false
  mTokens()
  state.backtracking=0
  <! mTokens backtracks with synpred at backtracking==2
  and we set the synpredgate to allow actions at level 1. !>
  if ( state.failed ) {
    input.rewind(m)
    input.consume() <! advance one char and try again !>
  }
  else {
    emit()
    return state.token
  }
  catch {
    case re: RecognitionException =>
      // shouldn't happen in backtracking mode, but...
      reportError(re)
      recover(re)
  }
}

override def memoize(input: IntStream,
ruleIndex: Int,
ruleStartIndex: Int) = {
  if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex)
}

override def alreadyParsedRule(input: IntStream, ruleIndex: Int):Boolean {
  if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex)
  return false
}

>>

def actionGate() ::= "state.backtracking==0"

def filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, inputStreamType, superClass,
  labelType, members, rewriteElementType,
  filterMode, ASTLabelType="Object") ::= <<
object <grammar.recognizerName> { 
@if(grammargrammarIsRoot)
    val tokenNames = Array( 
        "<invalid>", "<EOR>", "<DOWN>", "<UP>", "tokenNames; separator="", "
    )
@end

<tokens:{it | val <it.name> = <it.type}; separator="\n">

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it<bits> })}>

} 

class <grammar.recognizerName>(input: <inputStreamType>, state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>: RecognizerSharedState) extends <@superClassName><superClass><@end>(input, state) {

import <grammar.recognizerName>._

// delegates
<grammar.delegates:
    {g|public <g.recognizerName> <g:delegateName()>}; separator="\n">

// delegators
<grammar.delegators:
    {g|public <g.recognizerName> <g:delegateName()>}; separator="\n">

<last(grammar.delegators):{g|public <g.recognizerName> gParent;}> 

<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScope()><endif>}}

@members

@<members>

<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
def this(input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>: <inputStreamType>) =
    this(input, new RecognizerSharedState<grammar.delegators:{g|, <g:delegateName()>}>)

@<parserCtorBody()>

@<grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, state< trunc(g.delegators):{p|, p:delegateName()}>, this);} separator="\n">

@<grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>}; separator="\n">

@last(grammar.delegators):{gP都非常Parent = <g:delegateName()}>}

拮 @end

override def getTokenNames: Array[String] = tokenNames
override def getGrammarFileName = "<fileName>"

@<members>

@<rules; separator="\n\n">
<!-- generate rule/method definitions for imported rules so they appear to be defined in this recognizer. -->

// Delegated rules
<grammar.delegatedRules:{ruleDescriptor}
    @throws(classOf[RecognitionException])
    def <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>) : <returnType>() = {
        <if(ruleDescriptor.hasReturnValue)>
            return
        <endif>
        <ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
    es:[a|<a.name>]; separator=","); separator="\n">

        <synpreds:{p | <synpred(p)>}; separator="\n">

        <cyclicDFAs:{dfa | private val dfa<dfa.decisionNumber> = new
            <grammar.recognizerName>.DFA<dfa.decisionNumber>(this)); separator="\n">
    }

parserCtorBody() ::= <<
    <if(memoize)>
        <if(grammar.grammarIsRoot)>
            this.state.ruleMemo = new Array[java.util.Map[_,_]](length(grammar.allImportedRules)+1)<
        <endif>
    <endif>
    <grammar.delegators:
        {g|this.<g:delegateName()> = <g:delegateName()>}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="Object", superClass="Parser", labelType="Token",
    members={<actions.parser.members>}) ::= <<
    <genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>  

** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, filterMode, labelType=[<ASTLabelType>], ASTLabelType="Object",
    superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
    members={<actions.treeparser.members>}
) ::= <<
    <genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>  

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
*/
* nor parameters etc..., just give simplest possible method. Don't do 
* any of the normal memoization stuff in here either; it's a waste. 
* As predicates cannot be inlined into the invoking rule, they need to 
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= 
<<
  // $ANTLR start <ruleName>
  @throws(classOf[RecognitionException])
  def <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>): Unit = {
    <ruleLabelDefs()>
    <if(trace)>
      traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
      try {
        <block>
      } finally {
        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
      }
    </if>
    <block>
    <endif>
  }
  // $ANTLR end <ruleName>
>>

synpred(name) ::= <<
  final def <name>(): Boolean = {
    state.backtracking+=1
    <@start()>
    val start = input.mark()
    try {
      <name>_fragment() // can never throw exception
    } catch {
      case re: RecognitionException =>
        System.err.println("impossible: "+re)
    }
    val success = !state.failed
    input.rewind(start)
    <@stop()>
    state.backtracking-=1
    state.failed=false
    success
  }<\n>
>>

lexerSynpred(name) ::= <<
  <synpred(name)>
>>

lexerSynpred(name) ::= <<
  <synpred(name)>
>>
ruleMemoization(name) ::= «
  if (state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>)) { return <ruleReturnValue> }
»

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= «
  if (backtracking) if (state.failed) return <ruleReturnValue>
»

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= «
  if (backtracking) if (state.backtracking>0) { state.failed=true; return <ruleReturnValue> }
»

/** How to generate code for a rule. This includes any return type */
* data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= «
  // $ANTLR start "<ruleName>"
  // <fileName>:<description>
  @throws(classOf[RecognitionException])
  final def <ruleName>(<ruleDescriptor.parameterScope:parameterScope()>): <returnType>() = {
    if (trace) traceIn("<ruleName>", <ruleDescriptor.index>)
    <ruleScopeSetUp>
    <ruleDeclarations>
    <ruleLabelDefs>
    <ruleDescriptor.actions.init>
    <@preamble>
    try {
      <ruleMemoization(name=ruleName>)
      <block>
      <ruleCleanUp>
      <(ruleDescriptor.actions.after):execAction>
    }
    <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)<
    <else>
    <if(!emptyRule)
    <if(actions.(actionScope).rulecatch)
    <actions.(actionScope).rulecatch>
    <else>

```
catch {
    case re: RecognitionException =>
        reportError(re)
        recover(input,re)
        <@setErrorReturnValue()>
    }<\n
    <endif>
    <endif>
    <endif>

finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
        <ruleScopeCleanUp()>
        <finally>
    }
    <@postamble()>
    return <ruleReturnValue()>
}

// $ANTLR end "<ruleName>" 

catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
    val retval = new <returnType()>()
    retval.start = input.LT(1)<\n
<else>
    <ruleDescriptor.returnScope.attributes:{ a |
        var <a.name>: <a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>
    }>
<endif>
    <if(memoize)>
        val <ruleDescriptor.name>_StartIndex = input.index()
    <endif>
}>

ruleScopeSetUp() ::= <<
    <ruleDescriptor.useScopes:{it | <it>_stack.push(new <it>_scope()); separator="\n">}
    <ruleDescriptor.ruleScope:{it | <it.name>_stack.push(new <it.name>_scope()); separator="\n">}
}>

ruleScopeCleanUp() ::= <<
    <ruleDescriptor.useScopes:{it | <it>_stack.pop(); separator="\n">}
}
<ruleDescriptor.ruleScope:{it | <it.name>_stack.pop()}; separator="\n" >>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :{it | var <it.label.text>: <labelType> = null}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
 :{it | var list_<it.label.text>: java.util.List=null}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>: RuleReturnScope = null}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
 :{it | var <it.label.text>: <labelType>=null}; separator="\n"
>
<ruleDescriptor.charLabels:{it | int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{it | var list_<it.label.text>: java.util.List=null}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1)<\n>
<endif>
<endif>
>>
memoize() ::= <<
  <if(memoize)>
  <if(backtracking)>
  if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex) }
  <endif>
  <endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
  // $ANTLR start "<ruleName>"
  @throws(classOf[RecognitionException])
  final def m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>): Unit = {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>)<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    try {
      <if(nakedBlock)>
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        try <block><
      <else>
        var _type = <ruleName>
        var _channel = BaseRecognizer.DEFAULT_TOKEN_CHANNEL
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        try <block>
        <ruleCleanUp()>
        state.`type` = _type
        state.channel = _channel
        <(ruleDescriptor.actions.after):execAction()>
      </if>
    } finally {
      <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>)<endif>
      <ruleScopeCleanUp()>
    <memoize()>
  }
  // $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
@throws(classOf[RecognitionException])
def mTokens(): Unit = {
  <block><n>
} >>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber> = <maxAlt>
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
alt<decisionNumber> match {
  <alts:{a | <altSwitchCase(i,a)>}> 
  case _ =>
} <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber> = <maxAlt>
<decls>
<@predecision()>
<decision>
<@postdecision()>
alt<decisionNumber> match {
  <alts:{a | <altSwitchCase(i,a)>}> 
  case _ =>
} >>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalalt()>
>>
/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <prealt()>
  <alts>
  <postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,decisionNumber,description) ::= <<
  // <fileName>:<description>
  var cnt<decisionNumber>: Int = 0
  <decls>
  <preloop()>
  var loop<decisionNumber>_quitflag = false
  while (!loop<decisionNumber>_quitflag) {
    var alt<decisionNumber>:Int = <maxAlt>
    <predecision()>
    <decision>
    <postdecision()>
    alt<decisionNumber> match {
    <alts:{a | <altSwitchCase(i,a)>}>}
    case _ =>
      if ( cnt<decisionNumber> >= 1 ) loop<decisionNumber>_quitflag = true
    else {
      <ruleBacktrackFailure()>
      val eee = new EarlyExitException(<decisionNumber>, input)
      <earlyExitException()>
      throw eee
    }
  }
  cnt<decisionNumber>+=1
  <postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (...)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  <decls>
  <preloop()>
  var loop<decisionNumber>_quitflag = false
  while (!loop<decisionNumber>_quitflag) {
    var alt<decisionNumber>:Int = <maxAlt>
    <predecision()>
    <decision>
    <postdecision()>
    alt<decisionNumber> match {
    <alts:{a | <altSwitchCase(i,a)>}>}
    case _ =>
      if ( cnt<decisionNumber> >= 1 ) loop<decisionNumber>_quitflag = true
    else {
      <ruleBacktrackFailure()>
      val eee = new EarlyExitException(<decisionNumber>, input)
      <earlyExitException()>
      throw eee
    }
  }
while (!loop<decisionNumber>_quitflag) {
    var alt<decisionNumber>:Int = <maxAlt>
    <@predecision()>
    <decision>
    <@postdecision()>
    alt<decisionNumber> match {
        <alts:{a | <altSwitchCase(i,a)>}>
        case _ => loop<decisionNumber>_quitflag = true
    }
    <@postloop()>
}>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template */
optimalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum, alt) ::= <<
    case <altNum> =>
    <@prealt()>
    <alt>
    <@postalt()>
}>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    // <fileName>:<description>
    {
    <@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()>
    }
    >>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""


// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
<prematch()>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)> <label>=<endif>`match`(input,token,FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label>)
.asInstanceOf[<labelType>]<endif>
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)> 
<labelLabel(elem=label,...)> 
>>

<labelLabel(label,elem) ::= <<
if (list_<label>==null) list_<label> = new java.util.ArrayList()
list_<label>.add(<elem>)<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)> 
<label> = input.LA(1)<\n>
<endif>
`match`(<char>)
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)> 
<label> = input.LA(1)<\n>
<endif>
matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)> 
<label> = input.LA(1)<\n>
>>
<else>
<label>=input.LT(1).asInstanceOf[<labelType>]<
>
<endif>
<endif>
if ( <s> ) {
    input.consume()
    <postmatchCode>
    <if(!LEXER>)
        state.errorRecovery=false
    <endif>
    <if(backtracking)>state.failed=false</endif>
}
else {
    <ruleBacktrackFailure>()
    val mse = new MismatchedSetException(null,input)
    <@mismatchedSetException()>
    <if(LEXER>)
        recover(mse)
    </if>
    throw mse
    <else>
        throw mse
</else>
</if>
</if>

<listLabel(elem=label,...)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
val <label>Start<elementIndex> = getCharIndex()
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
val <label>Start<elementIndex> = getCharIndex()
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
`match`(EOF)
<checkRuleBacktrackFailure()>
val <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>,
getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
`match`(EOF)
<checkRuleBacktrackFailure()>
<endif>

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// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= ">_p"
recRuleAltPredicate(ruleName,opPrec) ::= "><recRuleArg()> \leq <opPrec>
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=<$src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
   <root:element()>
   <actionsAfterRoot:element()>
   <if(nullableChildList)>
   if ( input.LA(1)==Token.DOWN ) {
     `match`(input, Token.DOWN, null)
     <checkRuleBacktrackFailure()>
     <children:element()>
     `match`(input, Token.UP, null)
     <checkRuleBacktrackFailure()>
   }
   <else>
   `match`(input, Token.DOWN, null)
   <checkRuleBacktrackFailure()>
   <children:element()>
   `match`(input, Token.UP, null)
   <checkRuleBacktrackFailure()>
   <endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 *  also hoisted into a prediction expression). */
validateSemanticPredicate(pred,description) ::= <<
   if ( !(<evalPredicate(...)>) ) {
     <ruleBacktrackFailure()>
     throw new FailedPredicateException(input, ", "<ruleName>", ", "<description>"
   }
>>

// F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
   val LA<decisionNumber>_stateNumber = input.LA(<k>)
   <edges; separator=\"\nelse \"
   else { 
   <if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>
<else>
  <ruleBacktrackFailure()>
  val nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input)<
  @@noViableAltException()>
  throw nvae<
  <endif>
  }
>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
val LA<decisionNumber>_<stateNumber> = input.LA(<k>)<
<edges; separator="\nelse ">
><
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
val LA<decisionNumber>_<stateNumber> = input.LA(<k>)<
<edges; separator="\nelse ">
><
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
            <targetState>
        }
    }>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator * decides if this is possible: CodeGenerator.canGenerateSwitch(). */

dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    input.LA(<k>) match {
        <edges; separator="\n"> case _ =>
        <if(eotPredictsAlt)>
            alt<decisionNumber>=<eotPredictsAlt>
        <else>
            <ruleBacktrackFailure>()
            val nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input)<
            <@noViableAltException()>
            throw nvae<
        <endif>
    }
}<<

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    input.LA(<k>) match {
        <edges; separator="\n"> case _ =>
    }<<

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    input.LA(<k>) match {
        <edges; separator="\n"> case _ =>
        <if(eotPredictsAlt)>
            alt<decisionNumber>=<eotPredictsAlt>;
        <endif>
    }<<

dfaEdgeSwitch(labels, targetState) ::= <<
    case <labels:{it | <it>}; separator=" | " =>
        {
            <targetState>
        }
    }<<
// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
val DFA<dfa.decisionNumber>_eotS = "<dfa.javaCompressedEOT; wrap="\"+\n \"">"
val DFA<dfa.decisionNumber>_eofS = "<dfa.javaCompressedEOF; wrap="\"+\n \"">"
val DFA<dfa.decisionNumber>_minS = "<dfa.javaCompressedMin; wrap="\"+\n \"">"
val DFA<dfa.decisionNumber>_maxS = "<dfa.javaCompressedMax; wrap="\"+\n \"">"
val DFA<dfa.decisionNumber>_acceptS = "<dfa.javaCompressedAccept; wrap="\"+\n \"">"
val DFA<dfa.decisionNumber>_specialS = "<dfa.javaCompressedSpecial; wrap="\"+\n \"">"}>
val DFA<dfa.decisionNumber>_transitionS: Array[String] = Array(
    "<dfa.javaCompressedTransition:{s|"<s; wrap="\"+\n"">}; separator="\n">"
)

val DFA<dfa.decisionNumber>_eot: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS)
val DFA<dfa.decisionNumber>_eof: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS)
val DFA<dfa.decisionNumber>_min: Array[Char] =
    DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS)
val DFA<dfa.decisionNumber>_max: Array[Char] =
    DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS)
val DFA<dfa.decisionNumber>_accept: Array[Short] =
    DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS)
val DFA<dfa.decisionNumber>_special: Array[Short] =
    DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS)
val DFA<dfa.decisionNumber>_transition = new
    Array[Array[Short]](DFA<dfa.decisionNumber>_transitionS.length)
for (i <- DFA<dfa.decisionNumber>_transition.indices) {
    DFA<dfa.decisionNumber>_transition(i) =
    DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS(i))
}

class DFA<dfa.decisionNumber> extends DFA {

    def this(recognizer: BaseRecognizer) = {
        this()
        this.recognizer = recognizer
        this.decisionNumber = <dfa.decisionNumber>
        this.eot = DFA<dfa.decisionNumber>_eot
        this.eof = DFA<dfa.decisionNumber>_eof
        this.min = DFA<dfa.decisionNumber>_min
        this.max = DFA<dfa.decisionNumber>_max
        this.accept = DFA<dfa.decisionNumber>_accept
        this.special = DFA<dfa.decisionNumber>_special
        this.transition = DFA<dfa.decisionNumber>_transition
    }

    override def getDescription = "<dfa.description>"

    <@errorMethod()>
    <if(dfa.specialStateSTs)>
        @throws(classOf[NoViableAltException])
        override def specialStateTransition(s: Int, _input: IntStream):Int = {
            <if(LEXER)>
                val input = _input
            <endif>
            <if(PARSER)>
                val input = _input.asInstanceOf[TokenStream]
            <endif>
            <if(TREE_PARSER)>
                val input = _input.asInstanceOf[TreeNodeStream]
            <endif>
            val _s = s
            s match {
                <dfa.specialStateSTs:{state | case <i0> => <! compressed special state numbers 0..n-1 !> <state>}; separator="\n"> case _ =>
            }
            <if(backtracking)>
                if (state.backtracking>0) {state.failed=true; return -1}<\n>
            <endif>
            val nvae = new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input)
            error(nvae)
            throw nvae
        }<\n>
A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
  val LA<decisionNumber>_<stateNumber>: Int = input.LA(1)<
  if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
  val index<decisionNumber>_<stateNumber>: Int = input.index()
  input.rewind()<
  s = -1
  <edges; separator="\n" else >
  if(semPredState) <! return input cursor to state before we rewound !>
  input.seek(index<decisionNumber>_<stateNumber>)<
  endif
if ( s>=0 ) return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
  if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>}<
  endif
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
  s = <targetStateNumber><
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<operands; separator="||">)"

notPredicate(pred) ::= "!(<evalPredicate(pred,"")>)"

evalPredicate(pred, description) ::= "(<pred>)"
evalSynPredicate(pred, description) ::= "<pred>()"
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable * somewhere. Must ask for the lookahead directly. */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "<LA<decisionNumber>_<stateNumber> >= <lower> && LA<decisionNumber>_<stateNumber> <= <upper>"

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >=<lower> && input.LA(<k>) <= <upper>)"

setTest(ranges) ::= "<ranges; separator="\"\""

// ATTRIBUTES

globalAttributeScope(scope) ::= "<if(scope.attributes) class <scope.name>_scope {
  <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n"}
} val <scope.name>_stack = new collection.mutable.Stack[<scope.name>_scope]<\n"<endif>
>>

ruleAttributeScope(scope) ::= "<if(scope.attributes) class <scope.name>_scope {
  <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n"}
} val <scope.name>_stack = new collection.mutable.Stack[<scope.name>_scope]<\n"<endif>
>>

returnStructName(r) ::= "<r.name>_return"

returnType() ::= "<if(ruleDescriptor.hasMultipleReturnValues) <ruleDescriptor:returnStructName()> <else> <ruleDescriptor:hasSingleReturnValue) <ruleDescriptor.singleValueReturnType> <else> Unit <endif> <endif>"
/** Generate the Java type associated with a single or multiple return values. */

ruleLabelType(referencedRule) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  <referencedRule.name>_return
  <else>
  <if(referencedRule.hasSingleReturnValue)>
  <referencedRule.singleValueReturnType>
  <else>
  Unit
  </endif>
  </endif>
  </if(referencedRule.hasMultipleReturnValues)>
  </referencedRule.name>._return
  </else>
  Unit
  </endif>
  </endif>
>>

delegateName(d) ::= <<
  <if(d.label)><d.label><else>g<d.name><endif>
  </if(d.label)> <d.label> <else> g <d.name> </endif>
>>

/** Using a type to init value map, try to init a type; if not in table must be an object, default value is "null". */

initValue(typeName) ::= <<
  scalaTypeInitMap.(typeName)
>>

/** Define a rule label including default value */

ruleLabelDef(label) ::= <<
  var <label.label.text>: <ruleLabelType(referencedRule=label.referencedRule)> =
  <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>
>>

/** Define a return struct for a rule if the code needs to access its start/stop tokens, tree stuff, attributes, ... Leave a hole for subgroups to stick in members. */

returnScope(scope) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  final class <ruleDescriptor:returnStructName()> extends
  <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
    <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n">
    @ruleReturnMembers()
  }
  <endif>
>>

// Using place holders in order to generate the Java code
parameterScope(scope) ::= "<<
<scope.attributes:{it | <it.name>: <it.type>}; separator=" ",">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack(<scope>_stack.size-<negIndex>-1).<attr.name>
  <else>
  <if(index)>
  <scope>_stack(<index>).<attr.name>
  <else>
  <scope>_stack.top.<attr.name>
  <endif>
  <endif>
%

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack(<scope>_stack.size-<negIndex>-1).<attr.name> = <expr>
  <else>
  <if(index)>
  <scope>_stack(<index>).<attr.name> = <expr>
  <else>
  <scope>_stack.top.<attr.name> = <expr>
  <endif>
  <endif>
%

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack.  This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
  (if (<scope>!=null) <scope>.<attr.name> else <initValue(attr.type)>)
  <else>
  <scope>.<attr.name>
  <endif>
%

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
%

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>
<else>
<attr.name> =<expr>
<endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID [Sid] or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
tokenLabelPropertyRef_text(scope,attr) ::= "(if (<scope>!=null) <scope>.getText() else null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(if (<scope>!=null) <scope>.getType() else 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(if (<scope>!=null) <scope>.getLine() else 0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(if (<scope>!=null) <scope>.getCharPositionInLine() else 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(if (<scope>!=null) <scope>.getChannel() else 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(if (<scope>!=null) <scope>.getTokenIndex() else 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>._tree"
ruleLabelPropertyRef_start(scope,attr) ::= "(if (<scope>!=null) <scope>.start.asInstanceOf[<labelType>] else null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(if (<scope>!=null) <scope>.stop.asInstanceOf[<labelType>] else null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(if (<scope>!=null) <scope>.tree.asInstanceOf[<ASTLabelType>] else null)"
ruleLabelPropertyRef_text(scope,attr) ::= "<if(TREE_PARSER)>
(if (<scope>!=null) input.getTokenStream().toString(  
  input.getTreeAdaptor().getTokenStartIndex(<scope>.start),  
  input.getTreeAdaptor().getTokenStopIndex(<scope>.start))) else null)  
<else>
(if (<scope>!=null) input.toString(<scope>.start,<scope>.stop)) else null)  
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "(if (<scope>!=null) <scope>.st else null)"
/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= 
  "(if (<scope>!=null) <scope>.getType() else 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= 
  "(if (<scope>!=null) <scope>.getLine() else 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= 
  "(if (<scope>!=null) <scope>.getCharPositionInLine() else -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= 
  "(if (<scope>!=null) <scope>.getChannel() else 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= 
  "(if (<scope>!=null) <scope>.getTokenIndex() else 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= 
  "(if (<scope>!=null) <scope>.getText() else null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= 
  "(if (<scope>!=null) Integer.valueOf(<scope>.getText()) else 0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(retval.start.asInstanceOf[<labelType>])"
rulePropertyRef_stop(scope,attr) ::= "(retval.stop.asInstanceOf[<labelType>])"
rulePropertyRef_tree(scope,attr) ::= "(retval.tree.asInstanceOf[<ASTLabelType>])"
rulePropertyRef_text(scope,attr) ::= "<if(TREE_PARSER)"
  input.getTokenStream().toString(
    input.getTreeAdaptor().getTokenStartIndex(retval.start),
    input.getTreeAdaptor().getTokenStopIndex(retval.start))
  <else>
    input.toString(retval.start,input.LT(-1))
  <endif>
"
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"
/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
 <action>
}
</else>
 <action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)
bitset(name, words64) ::= <<
 val <name> = new BitSet(Array[Long](<words64:{it | <it>L};separator=","))<\n>
>>

codeFileExtension() ::= ".scala"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
*/opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Scala/Scala.stg
No license file was found, but licenses were detected in source scan.

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

csharpVisibilityMap ::= [
   "private":"private",
   "protected":"protected",
   "public":"public",
   "fragment":"private",
   default:"private"
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass, literals) ::= <<
   //-------------------------------------------------------------------------------
   // \auto-generated>
   // This code was generated by a tool.
   // ANTLR Version: <ANTLRVersion>
   //
   // Changes to this file may cause incorrect behavior and will be lost if
   // the code is regenerated.
   //\auto-generated>
   //-------------------------------------------------------------------------------

   // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

   <if(trace)>
   #define ANTLR_TRACE
   <endif>
   <@debugPreprocessor()>

---
// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 168, 219
// Unreachable code detected.
#pragma warning disable 162
// Missing XML comment for publicly visible type or member 'Type_or_Member'
#pragma warning disable 1591

<actions.(actionScope).header>

<!--imports-->
using System.Collections.Generic;
using Antlr.Runtime;
using Antlr.Runtime.Misc;
@if(TREE_PARSER)
using Antlr.Runtime.Tree;
@end
using ConditionalAttribute = System.Diagnostics.ConditionalAttribute;
@end
</if>

@if(actions.(actionScope).namespace)namespace <actions.(actionScope).namespace>
@endif

{docComment}
<recognizer>
@if(actions.(actionScope).namespace)} // namespace <actions.(actionScope).namespace>
@endif

}>
lexerInputStreamType() ::= <<
<actions.(actionScope).inputStreamType; null="ICharStream">
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
superClass={if(actions.(actionScope).superClass)actions.(actionScope).superClass}else=Antlr.Runtime.Lexer
@end}) ::= <<
[System.CLSCompliant(false)]
<pARSERModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
@superClassName><superClass>@end
{
	<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">  
<scopes:{if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif}> }>
<actions.lexer.members>

// delegates
<grammar.delegates:
    {glprivate <g.recognizerName> <g:delegateName()>; separator="\n"}
// delegators
<grammar.delegators:
    {glprivate <g.recognizerName> <g:delegateName()>; separator="\n"}
<last(grammar.delegators):{glprivate <g.recognizerName> gParent;}>}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>()<! needed by subclasses !>
{
    OnCreated();
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
: this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g:delegateName()>}>)
{
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input,
RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
: base(input, state)
{
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
    state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1];<\n>! index from 1..n !>
    <endif>
    <endif>
<grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, this.state<trunc(g.delegators):{p|,
    <p:delegateName()> }>, this);}; separator="\n"}
<grammar.delegators:
    {glthis.<g:delegateName()> = <g:delegateName>();}; separator="\n"}
<last(grammar.delegators):{glgParent = <g:delegateName>();}>

OnCreated();
}
public override string GrammarFileName { get { return "<fileName>"; } }

private static readonly bool[] decisionCanBacktrack = new bool[0];
<if(grammar.hasDelegates)>
public override <lexerInputStreamType()> CharStream
{
    get
    {
        return base.CharStream;
    }
    set

base.CharStream = value;
<grammar.directDelegates:
  (g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>}>,
  this);}; separator="\n">
<grammar.delegators:
  (g|this.<g:delegateName>() = <g:delegateName>();}; separator="\n">
<last(grammar.delegators):{g|gParent = <g:delegateName>();}>

<if(grammar.delegates)>
public override void SetState(RecognizerSharedState state)
{
  base.SetState(state);
  <grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n">
}<endif>

<endif>
<if(filterMode)>
<filteringNextToken()>
<endif>

[Conditional("ANTLR_TRACE")]
protected virtual void OnCreated() {}
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule(string ruleName, int ruleIndex) {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

<rules; separator="\n">

<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">
protected override void InitDFAs()
{
  base.InitDFAs();
  <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
  SpecialStateTransition<dfa.decisionNumber><endif>);}; separator="\n">
}<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
#endregion

---

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/** A override of Lexer.nextToken() that backtracks over mTokens() looking
for matches. No error can be generated upon error; just rewind, consume
a token and then try again. backtracking needs to be set as well.
Make rule memoization happen only at levels above 1 as we start mTokens
at backtracking==1.
*/
filteringNextToken() ::= <<
public override IToken NextToken()
{
while (true)
{
if (input.LA(1) == CharStreamConstants.EndOfFile)
{
IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default,
input.Index, input.Index);
eof.Line = Line;
eof.CharPositionInLine = CharPositionInLine;
return eof;
}
state.token = null;
state.channel = TokenChannels.Default;
state.tokenStartCharIndex = input.Index;
state.tokenStartCharPositionInLine = input.CharPositionInLine;
state.tokenStartLine = input.Line;
state.text = null;
try
{
int m = input.Mark();
state.backtracking=1;<! means we won't throw slow exception !>
state.failed=false;
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1. !>
if (state.failed)
{
input.Rewind(m);
input.Consume();<! advance one char and try again !>
}
else
{
Emit();
return state.token;
}
}
catch (RecognitionException re)
{
    // shouldn't happen in backtracking mode, but...
    ReportError(re);
    Recover(re);
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
    if (state.backtracking > 1)
    base.Memoize(input, ruleIndex, ruleStartIndex);
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    if (state.backtracking > 1)
    return base.AlreadyParsedRule(input, ruleIndex);

    return false;
}

>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="object") ::= <<
    [System.CLSCompliant(false)]
    <parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
    {
        <if(grammar.grammarIsRoot)>
            internal static readonly string[] tokenNames = new string[] {
                "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", tokenNames; separator=", ">
            
            <endif>
            <tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">  
            <if(grammar.delegates)>
                // delegates
                <grammar.delegates:}  

private <g.recognizerName> <g:delegateName()>; separator="\n"
</endif>
@if(grammar.delegators)
// delegators
<grammar.delegators:
{g|private <g.recognizerName> <g:delegateName()>;}; separator="\n"
</last(grammar.delegators):{g|private <g.recognizerName> gParent;}>}
<endif>

@if(grammar.delegates)
public override void SetState(RecognizerSharedState state)
{
    base.SetState(state);
    <grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n"}
}
@endif
@endif

<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}}
<br@members()>

public override string[] TokenNames { get { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
public override string GrammarFileName { get { return "]<fileName>"; } }

@members>

[Conditional("ANTLR_TRACE")]
protected virtual void OnCreated() {}
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule(string ruleName, int ruleIndex) {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

#region Rules
<rules; separator="\n">
#region Delegated rules
<grammar.delegatedRules:{ruleDescriptor}
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)>
<ruleDescriptor.name; format="id">(<ruleDescriptor.parameterScope:parameterScope()>) <!throws RecognitionException !>{ <if(ruleDescriptor.hasReturnValue)>return <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name; format="id">(<ruleDescriptor.parameterScope.attributes:{a|<a.name; format="id">}; separator=",
> }); separator="n"
#endregion Delegated rules
<endif>

<insertSynpreds(synpreds)>

<if(cyclicDFAs)>
#region DFA
<cyclicDFAs:{dfa | private DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;} separator="n"

protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>, SpecialStateTransition<dfa.decisionNumber><endif> );}; separator="n"
}

<cyclicDFAs:cyclicDFA()><! dump tables for all DFA!> #endregion DFA
<endif>

<if(bitsets)>
#region Follow sets
private static class Follow
{
    <bitsets:{it|<bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>}; separator="n"
}
#endregion Follow sets
<endif>
}

@genericParser.members() ::= <<
#if ANTLR_DEBUG
private static readonly bool[] decisionCanBacktrack = new bool[]
{
false, // invalid decision
<grammar.decisions:{d | <d.dfa.hasSynPred>}; wrap="\n", separator=",
}
#else

private static readonly bool[] decisionCanBacktrack = new bool[0];
#endif

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g, <g.recognizerName> <g:delegateName()}> })
: this(input, new RecognizerSharedState(<grammar.delegators:{g, <g:delegateName()}> })
{
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState state<grammar.delegators:{g, <g.recognizerName> <g:delegateName()}> })
: base(input, state)
{
<if(grammar.directDelegates)>
<grammar.directDelegates:
{g<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p, <p:delegateName()}>)}, this);}; separator="\n"}
<endif>
<if(grammar.indirectDelegates)>
<grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName>().<g:delegateName()>;}; separator="\n"}
<endif>
<if(grammar.delegators)>
<last(grammar.delegators):{g|gParent = <g:delegateName()>;}>}
<endif>
<parserCtorBody()>
OnCreated();
}
>

// imported grammars are 'public' (can't be internal because their return scope classes must be accessible)
parserModifier(grammar, actions) ::= <<
<if(grammar.grammarIsRoot)><actions.(actionScope).modifier; null="public"><else>public<endif>
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[length(grammar.allImportedRules)+1];<! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n"}
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
ASTLabelType="object",
superClass={<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Parser

---
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---
/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */

 treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
           numRules, bitsets, filterMode, labelType={<ASTLabelType>}, ASTLabelType="object",
             if(filterMode)<if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif><endif>},
           members={<actions.treeparser.members>}) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>_fragment() {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>_fragment() {}

// $ANTLR start <ruleName>
<ruleModifier(grammar,ruleDescriptor)> void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>)
{
    <ruleLabelDefs()>
    EnterRule_<ruleName>_fragment();
    EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);
    TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try
    {
    <block>
    }
    finally
    {
    TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
    LeaveRule_<ruleName>_fragment();
    }
// $ANTLR end <ruleName>

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
private bool EvaluatePredicate(System.Action fragment)
{
    bool success = false;
    state.backtracking++;
    #@start()
    try { DebugBeginBacktrack(state.backtracking);
        int start = input.Mark();
        try
        {
            fragment();
        }
        catch (RecognitionException re )
        {
            System.Console.Error.WriteLine("impossible: "+re);
        }
        success = !state.failed;
        input.Rewind(start);
    } finally { DebugEndBacktrack(state.backtracking, success); }
    #@stop()
    state.backtracking--;
    state.failed=false;
    return success;
}
#endregion Synpreds
<endif>

ruleMemoization(name) ::= <<
<if(memoize)>
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
<endif>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>
if (state.failed) <returnFromRule()> <endif>
>>
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  <if(backtracking)>if (state.backtracking>0) { state.failed=true; <returnFromRule()> }<endif>
>>

ruleWrapperMap := [
  "bottomup": {<ruleWrapperBottomup()>},
  "topdown": {<ruleWrapperTopdown()>},
  default:""
]

ruleWrapperBottomup() ::= <<
  <if(TREE_PARSER && filterMode)>
  protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Bottomup() { return bottomup(); }<endif>
>>

ruleWrapperTopdown() ::= <<
  <if(TREE_PARSER && filterMode)>
  protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Topdown() { return topdown(); }<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)> 
  <returnScope(ruleDescriptor.returnScope)> 
  [Conditional("ANTLR_TRACE")]
  protected virtual void EnterRule_<ruleName>() {} 
  [Conditional("ANTLR_TRACE")]
  protected virtual void LeaveRule_<ruleName>() {} 
  <ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)> <ruleName; 
  format="id">(<ruleDescriptor.parameterScope:parameterScope()>){ 
    EnterRule_<ruleName>(); 
    EnterRule("<ruleName>", <ruleDescriptor.index>); 
    TraceIn("<ruleName>", <ruleDescriptor.index>); 
    <ruleScopeSetUp>() 
    <ruleDeclarations>() 
    <ruleLabelDefs>() 
    <returnScopeMap.(ruleName)> 
  }
>>

/ $ANTLR start "<ruleName>" 
/ <fileName>:<description> 
/ [GrammarRule("<ruleName>")] 
/ <ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)> <ruleName; 
/ format="id">(<ruleDescriptor.parameterScope:parameterScope()>)
/ {
/ EnterRule_<ruleName>();
/ EnterRule("<ruleName>", <ruleDescriptor.index>);
/ TraceIn("<ruleName>", <ruleDescriptor.index>);
/ <ruleScopeSetUp>()
/ <ruleDeclarations>()
/ <ruleLabelDefs>()
try { DebugEnterRule(GrammarFileName, "<ruleName>");
DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
</@preamble()>
try
{
<ruleMemoization(name=ruleName)>
:block
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
}
@if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}}
<else>
@if(!emptyRule)>
@if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (RecognitionException re) 
{
ReportError(re);
Recover(input,re);
</@setErrorReturnValue()>
}
@endif>
@endif>
@endif>
finally
{
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
LeaveRule._<ruleName>();
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
} 
DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName, "<ruleName>"); } 
</@postamble()>
</returnFromRule()></n>
}
// $ANTLR end "<ruleName>
>>

// imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<
<if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
nul="private"><else>internal<endif>
// imported grammars need to have public return scopes
returnScopeModifier(grammar,ruleDescriptor) ::= <<
  <if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier); null="private"><else>public<endif>
>>
catch(decl,action) ::= <<
catch (<e.decl>)
{
  <e.action>
}
>>

ruleDeclarations() ::= <<
  <if(ruleDescriptor.hasMoreMultipleReturnValues)>
  <returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>();
  retval.Start = (<labelType>)input.LT(1);
  <else>
  <ruleDescriptor.returnScope.attributes:{ a |
    <a.type> <a.name; format="id"> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
  }>
  <endif>
  <if(memoize)>
  int <ruleDescriptor.name>_StartIndex = input.Index;
  <endif>
>>

ruleScopeSetUp() ::= <<
  <ruleDescriptor.useScopes:{it|<it>_stack.Push(new <it>_scope());<it>_scopeInit(<it>_stack.Peek());}; separator="\n"> 
  <ruleDescriptor.ruleScope:{it|<it.name>_stack.Push(new <it.name>_scope());<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
  <ruleDescriptor.useScopes:{it|<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n"> 
  <ruleDescriptor.ruleScope:{it|<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
  {[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
    :{it|<it.labelType> <it.label.text> = default(<it.labelType>);}; separator="\n"
  >
  <ruleDescriptor.tokenListLabels} >>
lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: [it]<labelType> <it.label.text> = default(<labelType>); }; separator="\n"
>
<ruleDescriptor.charListLabels,
ruleDescriptor.charLabels]
: [it]<int> <it.label.text> = 0; }; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: [it][LabelType] list_<it.label.text> = null; }; separator="\n"
>
<ruleDescriptor.charListLabels:[it][int] list_<it.label.text> = null; }; separator="\n"
>
>>

returnFromRule() ::= <%
return
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following
  single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>
<!> retval
<endif>
<endif>
<endif>
;
%>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = (<labelType>)input.LT(-1);
<endif>
<endif>
<endif>

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memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>() {} 
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>() {} 

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")] 
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void m_<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
EnterRule_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
    <ruleScopeSetUp()>
    <ruleDeclarations()>
try
{
<if(nakedBlock)>
<lexerMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<else>
int _type = <ruleName>;
int _channel = DefaultTokenChannel;
<lexerMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
finally
{
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
LeaveRule_<ruleName>();
<bruleScopeCleanUp()>
<brmemoize()>
}

// $ANTLR end "<ruleName>"

/** How to generate code for the implicitly-defined lexer grammar rule */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override void mTokens()
{
<block><
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterSubRule(<decisionNumber>);}
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>
}
} finally { DebugExitSubRule(<decisionNumber>); }
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
}@predecision()
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
}@postdecision()
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
}@prealt()
DebugEnterAlt(1);
}@postalt()
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
}@prealt()
DebugEnterAlt(1);
}@postalt()
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
}@preloop()
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
}@predecision()
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
}@postdecision()
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= 
<<
// <fileName>::<description>
<decls>
<@preloop()>
try { DebugEnterSubRule(<decisionNumber>); }
while (true)
{
int alt<decisionNumber> =<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]); }
<decision>
} finally { DebugExitDecision(<decisionNumber>); } 
<@postdecision()>
switch ( alt<decisionNumber> )
{
<alts: [a]<altSwitchCase(i,a)> }
default:
goto loop<decisionNumber>;
}
}
loop<decisionNumber>:
;
}

finally { DebugExitSubRule(<decisionNumber>); }
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase(altNum,alt) ::= <<
  case <altNum>:
  <@prealt()>
  DebugEnterAlt(<altNum>);
  <alt>
  break;
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  // <fileName>::<description>
  {
  <@declarations()>
  <elements:element()>
  <rew>
  <@cleanup()>
  }
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noreRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(it) ::= <%
@prematch()
DebugLocation(<it.line>, <it.pos>);
<it.el> \n
%

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
@if(label)>
<label>=(<labelType>);</label>
@endif
Match(input,<token>,Follow._<token>_in_<ruleName>_elementIndex); <checkRuleBacktrackFailure>()
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

listLabelElem(label,elem,elemType) ::= <<
if (list_<label>==null) list_<label>=new List<<elemType; null={<labelType>}>;null>();
list_<label>.Add(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
@if(label)>
<label> = input.LA(1);
@endif
Match(<char>); <checkRuleBacktrackFailure>()
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
@if(label)>
<label> = input.LA(1);
@endif
MatchRange(<a>,<b>); <checkRuleBacktrackFailure>()
>>

/** For now, sets are interval tests and must be tested inline */
mmatchSet(s,label,terminalOptions,elementIndex,postmatchCode="") ::= <<
@if(label)>
<matchSetLabel()>
@endif
if (<>)
{
input.Consume();
<postmatchCode>
<@matchSetUnchecked(s,label,elementIndex,postmatchCode=false)>>

matchSetUnchecked(s,label,elementIndex,postmatchCode=false) ::= <%
    <if(label)>
    <matchSetLabel()></n>
    <endif>
    input.Consume();</n>
    <if(postmatchCode)>
    <postmatchCode></n>
    <endif>
    <if(!LEXER)>state.errorRecovery=false;</endif><if(backtracking)>state.failed=false;</endif>%>

matchSetLabel() ::= <%
    <if(LEXER)>
    <label> = input.LA(1);
    <else>
    <label> = (<labelType>)input.LT(1);
    <endif>
    %>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
    <matchSet(...)>>
    <listLabelElem(elem=label,elemType=labelType,...)>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <%
wildcard(token,label,elementIndex,terminalOptions) ::= <<
  <if(label)>
  <label> =( <labelType> ) input.LT(1);<
  <endif>
  MatchAny(input); <checkRuleBacktrackFailure()>
  
  wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = input.LA(1);<
  <endif>
  MatchAny(); <checkRuleBacktrackFailure()>
  
  wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)>
  <listLabelElem(elem=label,elemType=labelType,...)> 
  
  /** Match a rule reference by invoking it possibly with arguments
  * and a return value or values. The ‘rule’ argument was the
  * target rule name, but now is type Rule, whose toString is
  * same: the rule name. Now though you can access full rule
  * descriptor stuff.
  */
  ruleRef(rule,label,elementIndex,args,scope) ::= <<
  PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>); 
  <if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name; format="id">(<args; separator="", ");
  
  wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <wildcard(...)>
  <listLabelElem(elem=label,elemType=labelType,...)> 

  /** Match . wildcard in lexer */
  wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = input.LA(1);<
  <endif>
  MatchAny(); <checkRuleBacktrackFailure()>
  
  wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)>
  <listLabelElem(elem=label,elemType=labelType,...)> 

  /** Match a rule reference by invoking it possibly with arguments
  * and a return value or values. The ‘rule’ argument was the
  * target rule name, but now is type Rule, whose toString is
  * same: the rule name. Now though you can access full rule
  * descriptor stuff.
  */
  ruleRef(rule,label,elementIndex,args,scope) ::= <<
  PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>); 
  <if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name; format="id">(<args; separator="", ");
PopFollow();
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem=label,elemType=[<ASTLabelType>],...)>
>>

/** A lexer rule reference.
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<%
<if(label)>
int <label>Start<elementIndex> = CharIndex;\n>
int <label>StartLine<elementIndex> = Line;\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;\n>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()><
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);\n>
<label>.Line = <label>StartLine<elementIndex>.;\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
\%>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabelElem(elem=label,elemType=labelType,....)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<%
<if(label)>
int <label>Start<elementIndex> = CharIndex;\n>
int <label>StartLine<elementIndex> = Line;\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;\n>
Match(EOF); <checkRuleBacktrackFailure()><\n>
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);\n>
```plaintext
// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= ".p"
recRuleAltPredicate(ruleName,opPrec) ::= ".<recRuleArg()> <= <opPrec>"
recRuleSetResultAction() ::= ".root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match (^root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, 
    enclosingTreeLevel, treeLevel) ::= << 
    <root:element()> 
    <actionsAfterRoot:element()> 
    <if(nullableChildList)> 
    if (input.LA(1) == TokenTypes.Down) 
    { 
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()> 
    <children:element()> 
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()> 
    } 
    <else> 
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()> 
    <children:element()> 
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()> 
    <endif> 
    >>

/** Every predicate is used as a validating predicate (even when it is 
 * also hoisted into a prediction expression). */
validateSemanticPredicate(pred,description) ::= << 
if (!(<evalPredicate(...)>) 
{ 
<ruleBacktrackFailure()> 
throw new FailedPredicateException(input, "<ruleName>", "<description>"); 
} 
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= << 
int LA<decisionNumber>_k = input.LA(<k>); <\n>
```
<edges; separator="\nelse ">
else
{
@if(eotPredictsAlt)
alt<decisionNumber> = <eotPredictsAlt>;
@else
@ruleBacktrackFailure()
NoViableAltException nva = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input, <k>);
DebugRecognitionException(nvae);
@noViableAltException()
throw nva;
@endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead 
* for the bypass alternative. It delays error detection but this 
* is faster, smaller, and more what people expect. For (X)? people 
* expect "if ( LA(1)==X ) match(X);" and that's it. 
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);
<edges; separator="\nelse ">
@if(eotPredictsAlt)
@if(!edges)
alt<decisionNumber> = <eotPredictsAlt>;<! if no edges, don't gen ELSE !>
@else
else
{
alt<decisionNumber> = <eotPredictsAlt>;
@endif>
@endif>
@endif>
>>

/** A DFA state that is actually the loopback decision of a closure 
* loop. If end-of-token (EOT) predicts any of the targets then it 
* should act like a default clause (i.e., no error can be generated). 
* This is used only in the lexer so that for ('a')* on the end of a rule 
* anything other than 'a' predicts exiting. 
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);
<edges; separator="\nelse ">
@if(eotPredictsAlt)
@if(!edges)
alt<decisionNumber> = <eotPredictsAlt>;<! if no edges, don't gen ELSE !>
@else
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}@endif>
@endif>
@endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;;"

/** A simple edge with an expression. If the expression is satisfied, *
 * enter to the target state. To handle gated productions, we may *
 * have to evaluate some predicates for this edge. */

dfaEdge(labelExpr, targetState, predicates) ::= <<
  if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
  {
    <targetState>
  }
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator *
 * decides if this is possible: CodeGenerator.canGenerateSwitch(). */

dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch (input.LA(<k>))
  {
    <edges; separator="\n">
    default:
      <if(eotPredictsAlt)>
      alt<decisionNumber>=<eotPredictsAlt>;
      break;<\n>
    <else>
      <ruleBacktrackFailure()>
      NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
      input, <k>);
      DebugRecognitionException(nvae);
      <@noViableAltException()> throw nvae;
    </else>
    
    <endif>
  }
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch (input.LA(<k>))
  {
    <edges; separator="\n">
  }
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  switch (input.LA(<k>))
  {
    <edges; separator="\n">
  }
>>
```plaintext

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <
try
  {alt<decisionNumber> = dfa<decisionNumber>.Predict(input);}
catch (NoViableAltException nvae)
  {DebugRecognitionException(nvae); throw;}
>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <
private class DFA<dfa.decisionNumber> : DFA
  {
  private const string DFA<dfa.decisionNumber>_eotS =

```
private const string DFA<dfa.decisionNumber>_eofS = "<dfa.javaCompressedEOT; wrap=""+
		"">";
private const string DFA<dfa.decisionNumber>_minS = "<dfa.javaCompressedMin; wrap=""+
		"">";
private const string DFA<dfa.decisionNumber>_maxS = "<dfa.javaCompressedMax; wrap=""+
		"">";
private const string DFA<dfa.decisionNumber>_acceptS = "<dfa.javaCompressedAccept; wrap=""+
		"">";
private const string DFA<dfa.decisionNumber>_specialS = "<dfa.javaCompressedSpecial; wrap=""+
		"">";
private static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
};
private static readonly short[] DFA<dfa.decisionNumber>_eot = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
private static readonly short[] DFA<dfa.decisionNumber>_eof = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
private static readonly char[] DFA<dfa.decisionNumber>_min = DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
private static readonly char[] DFA<dfa.decisionNumber>_max = DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
private static readonly short[] DFA<dfa.decisionNumber>_accept = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
private static readonly short[] DFA<dfa.decisionNumber>_special = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private static readonly short[][] DFA<dfa.decisionNumber>_transition;
static DFA<dfa.decisionNumber>()
{
    int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for ( int i=0; i < numStates; i++ )
    {
        DFA<dfa.decisionNumber>_transition[i] = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
    SpecialStateTransitionHandler specialStateTransition<endif> )
    : base(specialStateTransition)
{
    this.recognizer = recognizer;
this.decisionNumber = <dfa.decisionNumber>;
this.eot = DFA<dfa.decisionNumber>_eot;
this.eof = DFA<dfa.decisionNumber>_eof;
this.min = DFA<dfa.decisionNumber>_min;
this.max = DFA<dfa.decisionNumber>_max;
this.accept = DFA<dfa.decisionNumber>_accept;
this.special = DFA<dfa.decisionNumber>_special;
this.transition = DFA<dfa.decisionNumber>_transition;
}

public override string Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
}
}

@if(dfa.specialStateSTs)
private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input)! throws NoViableAltException!>
{
    <if(LEXER)>
    IIntStream input = _input;
    <endif>
    <if(PARSER)>
    ITokenStream input = (ITokenStream)_input;
    <endif>
    <if(TREE_PARSER)>
    ITreeNodeStream input = (ITreeNodeStream)_input;
    <endif>
    int _s = s;
    s = -1;
    <! pull these outside the switch cases to save space on locals !>
    int LA<dfa.decisionNumber>_1 = input.LA(1);
    int index<dfa.decisionNumber>_1 = input.Index;
    switch (_s)
    {
    <dfa.specialStateSTs:{state |case <i0>:<! compressed special state numbers 0..n-1 !>
    <state>}; separator="\n">
    default:
    break;
    }

    if (s >= 0)
    return s;

    <if(backtracking)>
if (state.backtracking > 0) {state.failed=true; return -1;}
<endif>
NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
dfa.Error(nvae);
throw nvae;
}
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on state. */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{
<if(semPredState)>
%! get next lookahead symbol to test edges, then rewind !>
input.Rewind();
<endif>
<edges; separator="\nelse ">
<if(semPredState)>
%! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_1);
<endif>
break;
}
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what state to jump to next if successful. */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>) {s = <targetStateNumber>;}<\n>>

/** An edge pointing at end-of-token; essentially matches any char; always jump to the target. */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<operands; separator="\||")"
notPredicate(pred) ::= "!(<evalPredicate(...)>)

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "EvaluatePredicate(<pred>_fragment)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_k==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_k<ge()>lower && LA<decisionNumber>_k<le()>upper)%
>
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= 
"(input.LA(<k>)<ge()>lower && input.LA(<k>)<le()>upper)"

le() ::= "\<="
ge() ::= ">="

setTest(ranges) ::= <<
<ranges; separator="||">>>

// A T T R I B U T E S

attributeScope(scope) ::= <<
<if(scope.attributes)>
protected sealed partial class <scope.name>_scope
{
<scope.attributes:{it|public <it.decl>;}; separator="\n"}
<if(scope.actions.scopeinit)>
protected void <scope.name>_scopeInit( <scope.name>_scope scope )
{
<scope.actions.scopeinit>
}
<else>
protected virtual void <scope.name>_scopeInit( <scope.name>_scope scope ) { }
<endif>
<if(scope.actions.scopeafter)>
protected void <scope.name>_scopeAfter( <scope.name>_scope scope )
{
<scope.actions.scopeafter>
}
protected virtual void _scopeAfter( _scope _scope scope ) {}

protected readonly ListStack<_scope> _scope_stack = new ListStack<_scope>();

>>

globalAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

returnStructName(it) ::= "<it.name>_return"

returnType(ruleDescriptor) ::= <%
<if(ruleDescriptor.returnScope.attributes && ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<elseif(ruleDescriptor.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
%>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
%>

delegateName(it) ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
%

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(scope.attributes && ruleDescriptor.hasMultipleReturnValues)>
<returnScopeModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> sealed partial class
<ruleDescriptor:returnStructName()> : <ruleReturnBaseType()><@ruleReturnInterfaces()>
{
<scope.attributes:{it|public <it.decl>}; separator="n">;
%@ruleReturnMembers()

<endif>

ruleReturnBaseType() ::= <%
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope<<labelType>>
%

%@returnScope.ruleReturnMembers() ::= <<
>>

parameterScope(scope) ::= <<
<scope.attributes:{if<it.decl> }; separator=",">

>>

parameterAttributeRef(attr) ::= <<
<attr.name; format="id">

>>

parameterSetAttributeRef(attr,expr) ::= <<
<attr.name; format="id"> =<expr>;

>>

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>

>>

* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
default(<typeName>)
>>
<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id">
<else>
<if(index)>
<scope>_stack[<index>].<attr.name; format="id">
<else>
<scope>_stack.Peek().<attr.name; format="id">
<endif>
<endif>
%

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id"> = <expr>;
<else>
<if(index)>
<scope>_stack[<index>].<attr.name; format="id"> = <expr>;
<else>
<scope>_stack.Peek().<attr.name; format="id"> = <expr>;
<endif>
<endif>
%

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.Count>0 && $function::name.Equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "\$scope\_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
(<<scope>!=null?((<returnType(referencedRule)>)<scope>).<attr.name; format="id">:<initValue(attr.type)>)
<else>
<scope>
<endif>
%

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id">;
<else>
<attr.name; format="id">;
<endif>
%

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id"> =<expr>;
<else>
<attr.name; format="id"> =<expr>;
<endif>
%>
<else>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= ""(<scope>!=null?<scope>.Text:default(string))"
tokenLabelPropertyRef_type(scope,attr) ::= ""(<scope>!=null?<scope>.Type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= ""(<scope>!=null?<scope>.Line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= ""(<scope>!=null?<scope>.CharPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= ""(<scope>!=null?<scope>.Channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= ""(<scope>!=null?<scope>.TokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= ""<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= ""(<scope>!=null?((<labelType>)<scope>.Start):default(<labelType>))"
ruleLabelPropertyRef_stop(scope,attr) ::= ""(<scope>!=null?((<labelType>)<scope>.Stop):default(<labelType>))"

ruleLabelPropertyRef_text(scope,attr) ::= <%
  <if(TREE_PARSER)>
    (<scope>!=null?input.TokenStream.ToString(
      input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
      input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):default(string))
  <else>
  <endif>
%

ruleLabelPropertyRef_int(scope,attr) ::= ""(<scope>!=null?int.Parse(<scope>.Text):0)"

lexerRuleLabel(label) ::= ""<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= ""(<scope>!=null?<scope>.Type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= ""(<scope>!=null?<scope>.Line:0)"
lexerRuleLabelPropertyRef_pos(scope, attr) ::= "(<scope>!=null?<scope>.CharPositionInLine:-1)"

lexerRuleLabelPropertyRef_channel(scope, attr) ::= "(<scope>!=null?<scope>.Channel:0)"

lexerRuleLabelPropertyRef_index(scope, attr) ::= "(<scope>!=null?<scope>.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope, attr) ::= "(<scope>!=null?<scope>.Text:default(string))"

lexerRuleLabelPropertyRef_int(scope, attr) ::= "(<scope>!=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "retval.Start"
rulePropertyRef_stop(scope, attr) ::= "retval.Stop"
rulePropertyRef_tree(scope, attr) ::= "retval.Tree"
rulePropertyRef_text(scope, attr) ::= <%
  <if(TREE_PARSER)>
  <else>
    input.ToString(retval.Start,input.LT(-1))
  <endif>
%
  rulePropertyRef_st(scope, attr) ::= "retval.Template"

lexerRulePropertyRef_text(scope, attr) ::= "Text"
lexerRulePropertyRef_type(scope, attr) ::= "_type"
lexerRulePropertyRef_line(scope, attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope, attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope, attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope, attr) ::= "_channel"
lexerRulePropertyRef_start(scope, attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope, attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope, attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.Template = <expr>;"

/*** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
  <if(backtracking)>
...
if ("<actions.(actionScope).synpredgate>")
{
"<@indentedAction()>"
}
"<else>
"<action>
"<endif>
%

@execAction.indentedAction() ::= "<
"<action>
">

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= "<
public static readonly BitSet <name> = new BitSet(new ulong[] {<words64:{it|<it>UL};separator=",">});
">

codeFileExtension() ::= ".cs"

true_value() ::= "true"

false_value() ::= "false"

Found in path(s):
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/** Templates for building ASTs during tree parsing.
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
 */
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
_First[0] := nil;
_Last := nil;\n>
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
_First, _Save_Last: array [0..63] of I<ASTLabelType>;
_Last: I<ASTLabelType>;
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if (State.Backtracking = 0) then
begin<endif>
<if(rewriteMode)>

---

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RetVal.Tree := _First[0] as I<ASTLabelType>;
if (Adaptor.GetParent(RetVal.Tree) <> nil) and (Adaptor.IsNil(Adaptor.GetParent(RetVal.Tree))) then
  RetVal.Tree := Adaptor.GetParent(RetVal.Tree) as I<ASTLabelType>;
<endif>
<if(backtracking)>end;<endif>

/** match ^(root children) in tree parser; override here to
 *  add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  begin
    _Save_Last[<treeLevel>] := _Last;
    _First[<treeLevel>] := nil;
    <$>rewriteMode>
      Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;<
    $>
    <root:element()>
    <$rewriteMode>
    <if(backtracking)>if (State.Backtracking = 0) then <endif>
    <$root.el.rule>
      if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>.Tree;
    <$else>
      if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>;
    <$endif>
    <$actionsAfterRoot:element()>
    <if(nullableChildList)>
      if (Input.LA(1) = TToken.DOWN) then
        begin
          Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
          <children:element()>
            Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
          end;
        <$else>
          Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
          <children:element()>
            Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
          end;
        <$endif>
        <if(!rewriteMode)>
          Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
        <$endif>
        _Last := _Save_Last[<treeLevel>];
      end;<
    $>
    >>
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex) ::= <<
_LAST := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
_LAST := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin

<endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>
</n>
Adaptor.AddChild(Root[_treeLevel], <label>_tree);
<if(backtracking)>
end;
<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
if (_First[_treeLevel] = nil) then _First[_treeLevel] := <label>;
<endif>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_LAST := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin


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```<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>
</n>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)> >>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>
<\n>
Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
<if(backtracking)>end;<endif>
<endif>
}
)>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <!-- set return tree -->
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(...)>
>>
```
matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>end;<endif>
<endif>
}
))>
">
>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>}
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(!rewriteMode)>
Adaptor.AddChild(Root[<treeLevel>], <label>.Tree);
<else> <! rewrite mode !>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>.Tree;
<endif>
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>}
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[<treeLevel>] :=
Adaptor.BecomeRoot(<label>.Tree, Root[<treeLevel>]) as I<ASTLabelType>;
<endif>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefRuleRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
<if(terminalOptions.node)>
T<terminalOptions.node>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode)
<else>
(Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
>>

cleanUp() ::= <<
<super.cleanUp()>
<if(!rewriteMode)>}
<if(backtracking)>
if (State.Backtracking = 0) then
begin
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
<if(backtracking)>
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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources.jar/org/antlr/codegen/templates/Delphi/ASTTreeParser.stg
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@genericParser.methods() ::= <<
/* AST genericParser.methods */
<@super.methods()>
<parserMethods()>
>>

/* additional init code for tree support */
@genericParser.init() ::= <<
/* AST genericParser.init */
<@super.init()>
[self setTreeAdaptor:[[CommonTreeAdaptor newTreeAdaptor] retain]];  
>>

@genericParser.dealloc() ::= <<
/* AST genericParser.dealloc */
[self setTreeAdaptor:nil];  
<@super.dealloc()>
>>

/* Add an adaptor property that knows how to build trees */
parserMemVars() ::= <<
/* AST parserMemVars */
id<TreeAdaptor> treeAdaptor;  
>>

/* Add an adaptor property that knows how to build trees */
parserProperties() ::= <<
/* AST parserProperties */
@property (retain, getter=getTreeAdaptor, setter=setTreeAdaptor:) id<TreeAdaptor> treeAdaptor;  
>>

/** Declaration of additional tree support methods - go in interface of parserHeaderFile */
parserMethodsDecl() ::= <<
/* AST parserMethodsDecl */
- (id<TreeAdaptor>) getTreeAdaptor;  
- (void) setTreeAdaptor:(id<TreeAdaptor>) theTreeAdaptor;  
>>

/* Add an adaptor property that knows how to build trees */
parserSynthesize() ::= <<
/* AST parserProperties */
synthesize treeAdaptor;  
>>

/** Definition of addition tree support methods - go in implementation of genericParser */
parserMethods() ::= <<
/* AST parserMethods */
- (id<TreeAdaptor>) getTreeAdaptor
- (void)setTreeAdaptor:(id<TreeAdaptor>)aTreeAdaptor
{
    if (aTreeAdaptor != treeAdaptor) {
        treeAdaptor = aTreeAdaptor;
    }
}

/**
 * addition memVars for returnscopes *
 */
@returnScopeInterface.memVars() ::= <<
/* AST returnScopeInterface.memVars */
<recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/**
 * the interface of returnScope properties *
 */
@returnScopeInterface.properties() ::= <<
/* AST returnScopeInterface.properties */
@property (retain, getter=getTree, setter=setTree:) <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/**
 * the interface of returnScope methodsDecl *
 */
@returnScopeInterface.methodsDecl() ::= <<
/* AST returnScopeInterface.methodsDecl */
- (<recognizer.ASTLabelType; null="CommonTree"> *)getTree;
- (void) setTree:(<recognizer.ASTLabelType> *)aTree;
>>

/**
 * the implementation of returnScope synthesize *
 */
@returnScopeImplementation.synthesize() ::= <<
/* AST returnScopeImplementation.synthesize */
@synthesize tree;
>>

/**
 * the implementation of returnScope methods *
 */
@returnScopeImplementation.methods() ::= <<
/* AST returnScopeImplementation.methods */
- (<ASTLabelType> *)getTree
{
    return tree;
}

- (void) setTree:(<ASTLabelType> *)aTree
{
    if (tree != aTree) {
if (tree != nil) [tree release];
if (aTree != nil) [aTree retain];
tree = aTree;
}
}

- (void) dealloc
{
    self.tree = nil;
    [super dealloc];
}

> ** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
/> AST ruleDeclarations */
<super.ruleDeclarations()>
<ASTLabelType> *root_0 = nil;<\n>
>>

ruleLabelDefs() ::= <<
/> AST ruleLabelDefs */
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels:{it | <ASTLabelType> *<it.label.text>_tree=nil;}; separator="\n"> ruleDescriptor.allTokenRefsInAltsWithRewrites:{it | RewriteRuleTokenStream *stream_<it> = [[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor description:@"token <it>" retain;]; separator="\n"> ruleDescriptor.allRuleRefsInAltsWithRewrites:{it | RewriteRuleSubtreeStream *stream_<it> = [[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor description:@"rule <it>" retain;]; separator="\n"> >>

ruleCleanUp() ::= <<
/> AST ruleCleanUp */
<super.ruleCleanUp()>
<ruleDescriptor.allTokenRefsInAltsWithRewrites,ruleDescriptor.allRuleRefsInAltsWithRewrites:{it | [stream_<it> release;}; separator="\n"> <!
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(backtracking)>if ( state.backtracking == 0 ) { <\n>
<endif>
[prevRuleRootRef()] setTree:{<ASTLabelType> *}[treeAdaptor rulePostProcessing:root_0];<\n> [treeAdaptor setTokenBoundaries:[prevRuleRootRef()] getTreeNode]
    From:[prevRuleRootRef()] getStart] 
    To:[prevRuleRootRef()] getStop];<\n>
/* AST rewriteCodeLabelsCleanUp */
<referencedTokenLabels:{it | [stream_<it> release];}; separator="\n">;
<referencedTokenListLabels:{it | [stream_<it> release];}; separator="\n">;
<referencedRuleLabels:{it | [stream_<it> release];}; separator="\n">;
<referencedRuleListLabels:{it | [stream_<it> release];}; separator="\n">;

/** When doing auto AST construction, we must define some variables;
*  These should be turned off if doing rewrites.  This must be a "mode"
*  as a rule could have both rewrite and AST within the same alternative
*  block.
*/
@alt.declarations() ::= <<
@if(autoAST)
@if(outerAlt)
@if(!rewriteMode)
root_0 = (<ASTLabelType> *)[[treeAdaptor class] newEmptyTree] retain];
@endf
@endf
@endf

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...)> !>
<tokenRefBang(...)<! Track implies no auto AST construction!>
@if(backtracking)
if ( <actions.(actionScope).synpredgate> ) <endif>
[stream_<token> addElement:<label>];
@endf
@endf
@endf

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
*  to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex) ::= <<
<tokenRefTrack(...)
<listLabel(elem=label,...)>
>>
/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...) !>
<tokenRefBang(....)> 
/if(backtracking)>
if ( !<actions.(actionScope).synpredgate> ) <endif>
    [stream_<token> addElement:<label>];<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex) ::= <<
<tokenRefRuleRootTrack(....)> 
<listLabel(elem=label,....)> 
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(....)> 
/if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
    [stream_<rule.name> addElement:[<label> getTree]];<\n>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(....)> 
<listLabel(elem={[[<label> getTree]],...})> 
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<! <super.ruleRefRuleRoot(...)!>
<ruleRefRuleRoot(....)> 
/if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
    [stream_<rule.name> addElement:[<label> getTree]];<\n>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(....)> 
<listLabel(elem={[<label> getTree]},....)> 
>>

// R e w r i t e

rewriteCode(
    alts, description, 
    referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator="",">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
<endif>
<prevRuleRootRef()>.tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>*)[[treeAdaptor class] newEmptyTree] retain];
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)[treeAdaptor rulePostProcessing:root_0];
[input replaceChildren:[treeAdaptor getParent:retval.start]
    From:[treeAdaptor getChildIndex:retval.start]
    To:[treeAdaptor getChildIndex:_last]
    With:retval.tree];
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef()>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>
rewriteCodeLabels() ::= <<
<referencedTokenLabels
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
if (referencedElementsDeep:{el | [stream_<el> hasNext]; separator="||">)
alt
referencedElementsDeep:{el | [stream_<el> reset]; separator="\n">}
rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
while ( <referencedElements:{el | [stream_<el> hasNext]; separator="||"> ) {
  <alt>
} <referencedElements:{el | [stream_<el> reset];\n}> >>

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
{ if ( !(<referencedElements:{el | [stream_<el> hasNext]; separator=" || ">) ) { 
    @throw [RewriteEarlyExitException newException];
} while ( <referencedElements:{el | [stream_<el> hasNext]; separator=" || "> ) {
  <alt>
} <referencedElements:{el | [stream_<el> reset];\n}> }
}

rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)
if (<a.pred>) {
  <a.alt>
} \n
#else
{
  <a.alt>
} \n
@endif
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = nil;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>::description
{
  <ASTLabelType> *root_<treeLevel> = (<ASTLabelType> *)[[treeAdaptor class] newEmptyTree] retain;
  <root:rewriteElement()>
  <children:rewriteElement()>
    [treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
  }<\n>
}>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
  @pregen()
  <e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
  // TODO: args: <args; separator="", "">
  [treeAdaptor addChild:<createRewriteNodeFromElement(...)>
    toTree:root_<treeLevel>];\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
  [treeAdaptor addChild:[stream_<label> nextNode]
    toTree:root_<treeLevel>];\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
  [treeAdaptor addChild:
    [stream_<label> nextNode]
    toTree:root_<treeLevel>];\n>
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
  root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:
    [stream_<label> nextNode]
    old:root_<treeLevel>];\n>
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot := rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
  root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createRewriteNodeFromElement(...)>
    old:root_<treeLevel>];\n>
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
[treeAdaptor addChild:<createImaginaryNode(tokenType=token, ...)> toTree:root_<treeLevel>];

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createImaginaryNode(tokenType=token, ...)> old:root_<treeLevel>];
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
[treeAdaptor addChild:[stream_<rule> nextTree] toTree:root_<treeLevel>];
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:id<Tree>][stream_<rule> nextNode] old:root_<treeLevel>];
>>

rewriteNodeAction(action) ::= <<
[treeAdaptor addChild:<action> toTree:root_<treeLevel>];
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<action> old:root_<treeLevel>];
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
[treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
[treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType> *) [treeAdaptor becomeRoot:[stream_<label> nextNode] old:root_<treeLevel>];<<
>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType> *) [treeAdaptor becomeRoot:[stream_<label> nextNode] old:root_<treeLevel>];<<
>>

rewriteWildcardLabelRef(label) ::= <<
 [treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];<<
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
 <if(terminalOptions.node)>
 [terminalOptions.node] new<terminalOptions.node>:<tokenType> <if(args)> , <args; separator=", "> </endif>
 <endif>
 <if(args)>
 [treeAdaptor createTree:<tokenType> <if(first(args))>FromToken:<first(args)> </endif>
 <if(first(rest(args)))>Text:<first(rest(args))> </else>Text:@"<tokenType>" </endif> ] retain
 <else>
 [treeAdaptor createTree:<tokenType> Text:@"<tokenType>" ] retain
 <endif>
 <endif>
>>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
 <if(terminalOptions.node)>
 [terminalOptions.node] new<terminalOptions.node>:[stream_<token> nextToken] <if(args)> , <args; separator=", "> </endif>
 <endif>
 <if(args)> <! must create new node from old !>
 [treeAdaptor createTree:<tokenType> Text:<first(rest(args))> <args; separator=", "> ] retain
 <else>
 [stream_<token> nextNode]
 <endif>
 <endif>
>>

Found in path(s):
*/
//opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/AST.stg
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/*

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/
parserMembers() ::= <<
DebugTreeAdaptor *adaptor = [DebugTreeAdaptor newTreeAdaptor:(id)dbg Adaptor:[CommonTreeAdaptor newTreeAdaptor]];

// fix this
- (void) setTreeAdaptor:(id<TreeAdaptor>)anAdaptor
{
    adaptor = [DebugTreeAdaptor newTreeAdaptor:dbg Adaptor:anAdaptor];
    <if(grammar.grammarIsRoot)>
    adaptor = [DebugTreeAdaptor newTreeAdaptor:adaptor withDBG:dbg];
    <else>
    adaptor = (DebugTreeAdaptor *)adaptor; // delegator sends dbg adaptor
    </endif>

    <grammar.directDelegates:{g|[g:delegateName()]} setTreeAdaptor:adaptor;}>}

- (id<TreeAdaptor>) getTreeAdaptor
{
    return adaptor;
}</grammar.directDelegates>

*/
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
  [DebugEventSocketProxy newDebugEventSocketProxy:self, port, <if(TREE_PARSER)>[input
getTreeAdaptor]else>adaptor<endif>];
[self setDebugListener:proxy];
[self setInputStreamType:[Debug<InputStreamType> newDebug<InputStreamType>:input with:proxy]];}
try {
  [proxy handshake];
}
@catch (IOException *ioe) {
  [self reportError:ioe];
}
>>

@ctorForRootGrammar.finally() ::= <<
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];
[proxy setTreeAdaptor:adap];
>>

@ctorForProfilingRootGrammar.finally() ::=<<
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];
[proxy setTreeAdaptor:adap];
>>

@ctorForPredefinedListener.superClassRef() ::= @"super(input, dbg);"

@ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot) <! don't create new adaptor for delegates !>
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];</n>
@endif
>>

@treeParserHeaderFile.superClassName ::= "DebugTreeParser"

@rewriteElement.pregen() ::=@[debugListener locationLine:<e.line> column:<e.pos>];"

Found in path(s):
  * /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/ASTDbg.stg
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*/

/*
* This code generating template and the associated C runtime was produced by:
* Jim Idle jim|hereisana|idle|dotgoeshere|ws.
* If it causes the destruction of the Universe, it will be pretty cool so long as
* I am in a different one at the time.
*/

cTypeInitMap ::= [
"int"  : "0",      // Integers start out being 0
"long" : "0",      // Longs start out being 0
"float" : "0.0",   // Floats start out being 0
"double" : "0.0",  // Doubles start out being 0
"ANTLR3_BOOLEAN" : "ANTLR3_FALSE", // Booleans start out being Antlr C for false
"byte"  : "0",     // Bytes start out being 0
"short" : "0",     // Shorts start out being 0
"char"  : "0",     // Chars start out being 0
leadIn(type) ::=  
<<  
/** 
* This <type> file was generated by $ANTLR version <ANTLRVersion>  
*  
*     - From the grammar source file : <fileName>  
*     -                            On : <generatedTimestamp>  
*<if(LEXER)>  
*     -                 for the lexer : <name>Lexer  
<endif>  
*<if(PARSER)>  
*     -                for the parser : <name>Parser  
<endif>  
*<if(TREE_PARSER)>  
*     -           for the tree parser : <name>TreeParser  
<endif>  
*  
* Editing it, at least manually, is not wise.  
*  
* C language generator and runtime by Jim Idle, jim|hereisanat|idle|dotgoeshere|ws.  
*  
*>  
>>  

/**  
* The overall file structure of a recognizer; stores methods for rules  
* and cyclic DFAs plus support code.  
*/  
outputFile( LEXER,  
      PARSER,  
      TREE_PARSER,  
      actionScope,  
      actions,  
      docComment,  
      recognizer,  
      name,  
      tokens,  
      tokenNames,  
      rules,  
      cyclicDFAs,  
      bitsets,  
      buildTemplate,  
      buildAST,  
      rewriteMode,  
      profile,  
      backtracking,  
      synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
)
::=

<<
<leadIn("C source")>
*/

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<if(actions.(actionScope).header)>

/* ===================================================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action.*/
/*==================================================================*/
<endif>
/* -------------------------------------------------------------*/
/* Include the ANTLR3 generated header file.*/
/*#include    "<name>.h"
<actions.(actionScope).postinclude*/
/* ------------------------------------------------------------- */

<docComment>
<if(literals)>
/** String literals used by <name> that we must do things like MATCHS() with. */
/* C will normally just lay down 8 bit characters, and you can use L"xxx" to */
/* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so */
/* we perform this little trick of defining the literals as arrays of UINT32 */
/* and passing in the address of these. */
/* */
<literals:{it | static ANTLR3_UCHAR	lit_<i>[]  = <it>;}; separator="\n">
#define SCOPE_TYPE(scope) p<name>_##scope##_SCOPE
#define SCOPE_STACK(scope) p<name>_##scope##Stack
#define SCOPE_TOP(scope) ctx->p<name>_##scope##Top
#define SCOPE_SIZE(scope) ctx->p<name>_##scope##Stack_limit
#define SCOPE_INSTANCE(scope, i) (ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope),i))

/* Macros for accessing things in a lexer */
#undef LEXER
#undef RECOGNIZER
#undef RULEMEMO
#undef GETCHARINDEX
#undef GETLINE
#undef GETCHARPOSITIONINLINE
#undef EMIT
#undef EMITNEW
#undef MATCHC
#undef MATCHS
#undef MATCHRANGE
#undef LTOKEN
#undef HASFAILED
#undef FAILEDFLAG
#undef INPUT
#undef STRSTREAM
#undef LA
#undef HASEXCEPTION
#undef EXCEPTION
#undef CONSTRUCTEX
#undef CONSUME
#undef LRECOVER
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef BACKTRACKING
#undef MATCHANY
#undef MEMOIZE
#undef HAVEPARSERULE
#undef GETTEXT
#undef INDEX
#undef SEEK
#undef PUSHSTREAM
#undef POPSTREAM
#undef SETTEXT
#undef SETTEXT8

#define LEXER ctx->pLexer
/* If we have been told we can rely on the standard 8 bit or UTF16 input
* stream, then we can define our macros to use the direct pointers
* in the input object, which is much faster than indirect calls. This
* is really only significant to lexers with a lot of fragment rules (which
* do not place LA(1) in a temporary at the moment) and even then
*/
* only if there is a lot of input (order of say 1M or so).
*/
#if defined(ANTLR3_INLINE_INPUT_8BIT) || defined(ANTLR3_INLINE_INPUT_UTF16)

#if defined(ANTLR3_INLINE_INPUT_8BIT)

/* 8 bit character set */
#define NEXTCHAR ((pANTLR3_UINT8)(INPUT->nextChar))
#define DATAP ((pANTLR3_UINT8)(INPUT->data))
#else
#define NEXTCHAR ((pANTLR3_UINT16)(INPUT->nextChar))
#define DATAP ((pANTLR3_UINT16)(INPUT->data))
#endif

#define LA(n) ((NEXTCHAR + n) > (DATAP + INPUT->sizeBuf) ? ANTLR3_CHARSTREAM_EOF :
(ANTLR3_UCHAR)(*(NEXTCHAR + n - 1)))

#define CONSUME()                                           
{                                                                       
if (NEXTCHAR < (DATAP + INPUT->sizeBuf))                     
{                                                                   
    INPUT->charPositionInLine++;                                    
    if ((ANTLR3_UCHAR)(*NEXTCHAR) == INPUT->newlineChar)           
    {                                                               
        INPUT->line++;                                              
        INPUT->charPositionInLine = 0;                       
        INPUT->currentLine = (void *)(NEXTCHAR + 1); \        
    }                                                               
    INPUT->nextChar = (void *)(NEXTCHAR + 1);                       
}                                                                   
}
#endif

#else

// Pick up the input character by calling the input stream implementation.
//
#define CONSUME() INPUT->istream->consume(INPUT->istream)
#define LA(n) INPUT->istream->_LA(INPUT->istream, n)
#endif

<endif>

<if(PARSER)>
/* Macros for accessing things in the parser */
*/
#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSERDRULE
#undef MEMOIZE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef INDEX
#undef ADAPTOR
#undef SEEK
#undef RULEMEMO
#undef DBG

#define PARSERctx->pParser
#define RECOGNIZERPARSER->rec
#define PSRSTATERECOGNIZER->state
#define HAVEPARSERDRULE(r)RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define MEMOIZE(ri,si)RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define INPUTPARSER->tstream
#define STRSTREAMINPUT
#define ISTREAMINPUT->istream
#define INDEX()ISTREAM->index(INPUT->istream)
#define HASEXCEPTION()PSRSTATE->error == ANTLR3_TRUE
#define EXCEPTIONPSRSTATE->exception
#define MATCHT(t, fs)RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT(RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACKPSRSTATE->following
#ifdef  SKIP_FOLLOW_SETS  
define FOLLOWPUSH(x)  
define FOLLOWPOP()  

#else  
define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)  
define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)  
#endif  
define PRECOVER() RECOGNIZER->recover(RECOGNIZER)  
define PREREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)  
define LA(n) INPUT->_LA(ISTREAM, n)  
define LT(n) INPUT->_LT(INPUT, n)  
define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)  
define CONSUME() ISTREAM->consume(ISTREAM)  
define MARK() ISTREAM->mark(ISTREAM)  
define REWIND(m) ISTREAM->rewind(ISTREAM, m)  
define REWINDLAST() ISTREAM->rewindLast(ISTREAM)  
define SEEK(n) ISTREAM->seek(ISTREAM, n)  
define PERRORRECOVERY PSRSTATE->errorRecovery  
define FAILEDFLAG PSRSTATE->failed  
define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)  
define BACKTRACKINGPSRSTATE->backtracking  
define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER, s)  
define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER->recoverFromMismatchedElement(RECOGNIZER, s)  
define ADAPTOR ctx->adaptor  
define RULEMEMO PSRSTATE->ruleMemo  
define DBGRECOGNIZER->debugger

<endif>

<if(TREE_PARSER)>
/* Macros for accessing things in the parser */

#undef PARSER  
declare RECOGNIZER  
define HAVEPARSEDRULE  
define INPUT  
define STRSTREAM  
define HASEXCEPTION  
define EXCEPTION  
define MATCHT  
define MATCHANYT  
define FOLLOWSTACK  
define FOLLOWPUSH  
define FOLLOWPOP  
define PRECOVER

#undef    PREREPORTERROR
#undef    LA
#undef    LT
#undef    CONSTRUCTEX
#undef    CONSUME
#undef    MARK
#undef    REWIND
#undef    REWINDLAST
#undef    PERRORRECOVERY
#undef    HASFAILED
#undef    FAILEDFLAG
#undef    RECOVERFROMMISMATCHEDSET
#undef    BACKTRACKING
#undef    ADAPTOR
#undef    RULEMEMO
#undef    SEEK
#undef    INDEX
#undef    DBG

#define    PARSERctx->pTreeParser
#define    RECOGNIZERPARSER->rec
#define PSRSTATERECOGNIZER->state
#define HAVEPARSERDRECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define INPUTPARSER->ctnstream
#define ISTREAMINPUT->tnstream->istream
#define STRSTREAMINPUT->tnstream
#define HASEXCEPTION()((PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTIONPSRSTATE->exception
#define MATCHT(t, fs)RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT()RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#define FOLLOWPUSH(x)FOLLOWSTACK->push(FOLLOWSTACK, ((void *)(&(x))), NULL)
#define FOLLOWPOP()FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER(RECOGNIZER->recover(RECOGNIZER)
#define PREPERROR(RECOGNIZER->reportError(RECOGNIZER)
#define LA(n)ISTREAM->_LA(ISTREAM, n)
#define LT(n)INPUT->tnstream->_LT(INPUT->tnstream, n)
#define CONSTRUCTEX(RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME(ISTREAM->consume(ISTREAM)
#define MARK(ISTREAM->mark(ISTREAM)
#define REWIND(ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST(ISTREAM->rewindLast(ISTREAM)
#define PERRORRECOVERYPSRSTATE->errorRecovery
#define FAILEDFLAGPSRSTATE->failed
#define HASFAILED()((FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKINGPSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER,


```
s)  
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER->recoverFromMismatchedElement(RECOGNIZER, s)  
#define ADAPTOR INPUT->adaptor  
#define RULEMEMOPSSTATE->ruleMemo
#define SEEK(n) ISTREAM->seek(ISTREAM, n)  
#define INDEX() ISTREAM->index(ISTREAM)
#define DBG RECOGNIZER->debugger

<endif>

#define TOKTEXT(tok, txt) tok, (pANTLR3_UINT8)txt

/* The 4 tokens defined below may well clash with your own #defines or token types. If so
then for the present you must use different names for your defines as these are hard coded
in the code generator. It would be better not to use such names internally, and maybe
we can change this in a forthcoming release. I deliberately do not #undef these
here as this will at least give you a redefined error somewhere if they clash. */
#define UP ANTLR3_TOKEN_UP
#define DOWN ANTLR3_TOKEN_DOWN
#define EOR ANTLR3_TOKEN_EOR
#define INVALID ANTLR3_TOKEN_INVALID

/* ==============================================================
* Functions to create and destroy scopes. First come the rule scopes, followed
* by the global declared scopes.
* */
<rules: {r | <if(r.ruleDescriptor.ruleScope)>
          <ruleAttributeScopeFuncDecl(scope=r.ruleDescriptor.ruleScope)>
          <ruleAttributeScopeFuncs(scope=r.ruleDescriptor.ruleScope)>
          <endif> }>
<recognizer.scopes:{it | <if(it.isDynamicGlobalScope)>
                <globalAttributeScopeFuncDecl(it)>
                <globalAttributeScopeFuncs(it)>
                <endif> }>

/* ============================================================== */

/* Start of recognizer */
*/

<recognizer>
```
/* End of code
* =============================================================================
*/

headerFileExtension() ::= ".h"

headerFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
    ) ::= 
    <<
    <leadIn("C header")>
    <if(PARSER)>
    * The parser <mainName()>
    <endif>
    <if(LEXER)>
    * The lexer <mainName()>
    <endif>
    <if(TREE_PARSER)>
    * The tree parser <mainName()>
    <endif>
has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.
*
* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
*
* The parser entry points are called indirectly (by function pointer to function) via
* a parser context typedef p<name>, which is returned from a call to <name>New().
*
<if(LEXER)>
* As this is a generated lexer, it is unlikely you will call it 'manually'. However
* the methods are provided anyway.
*
<endif>
* The methods in p<name> are as follows:
*
* <rules:{r | <if(!r.ruleDescriptor.isSynPred)> - <headerReturnType(ruleDescriptor=r.ruleDescriptor,...)>}
p<name>-r.r.ruleDescriptor.name>(p<name>); separator="\n * ">
*
* The return type for any particular rule is of course determined by the source
* grammar file.
*/

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// THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#ifndef <name>_H
#define _<name>_H
<actions.(actionScope).preincludes>
/* =============================================================================
* Standard antlr3 C runtime definitions
* /
#include "antlr3.h"
/* End of standard antlr 3 runtime definitions
* =============================================================================*/
<actions.(actionScope).includes>
#endif __cplusplus
extern "C" {
#endif

// Forward declare the context typedef so that we can use it before it is
// properly defined. Delegators and delegates (from import statements) are
// interdependent and their context structures contain pointers to each other
// C only allows such things to be declared if you pre-declare the typedef.
//
typedef struct <name>_Ctx_struct <name>, * p<name>;

<if(recognizer.grammar.delegates)>
// Include delegate definition header files

<recognizer.grammar.delegates: {g|#include <<g.recognizerName>.h>}; separator="\n">  
<endif>

<actions.(actionScope).header>
#ifdefANTLR3_WINDOWS
// Disable: Unreferenced parameter,- Rules with parameters that are not used
// constant conditional,- ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable- tree rewrite variables declared but not needed
// Unreferenced local variable- lexer rule declares but does not always use _type
// potentially unitialized variable used- retval always returned from a rule
//unreferenced local function has been removed- susually getTokenNames or freeScope, they can go without

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warnigns

//
// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
#pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#pragma warning( disable : 4701 )
#endif

<if(backtracking)>

/* ========================
 * BACKTRACKING IS ENABLED
 * ========================
 */

<endif>

/** Context tracking structure for <mainName()>
*/
struct <name>_Ctx_struct
{
    /**< Built in ANTLR3 context tracker contains all the generic elements
     * required for context tracking.
     */
    <if(PARSER)>
        pANTLR3_PARSER   pParser;
    <endif>
    <if(LEXER)>
        pANTLR3_LEXER    pLexer;
    <endif>
    <if(TREE_PARSER)>
        pANTLR3_TREE_PARSER   pTreeParser;
    </if>
}
<endif>

<if(recognizer.grammar.delegates>)
<recognizer.grammar.delegates:
    { glp<g.recognizerName><g:delegateName>(); }; separator="\n"
<endif>

<if(recognizer.grammar.delegators>)
<recognizer.grammar.delegators:
    { glp<g.recognizerName><g:delegateName>(); }; separator="\n"
<endif>

<scopes:{it | <if(it.isDynamicGlobalScope)>
    <globalAttributeScopeDef(it)>
<endif> }]; separator="\n"

<rules: { r |<if(r.ruleDescriptor.ruleScope)>
    <ruleAttributeScopeDef(scope=r.ruleDescriptor.ruleScope)>
<endif> }>

<if(LEXER)>
    <rules:{r | <if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)>
    (*m<r.ruleDescriptor.name>)(struct <name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
    <endif>r.ruleDescriptor.parameterScope:parameterScope());<endif> }; separator="\n"
<endif>

<if(!LEXER)>
    <rules:{r | <headerReturnType(ruleDescriptor=r.ruleDescriptor)> (*<r.ruleDescriptor.name>)
    (struct
    <name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
    <endif>r.ruleDescriptor.parameterScope:parameterScope()); }; separator="\n"
<endif>

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<recognizer.grammar.delegatedRules:{ruleDescriptor|
    <headerReturnType(ruleDescriptor)> (*<ruleDescriptor.name>)(struct
    <name>_Ctx_struct * ctx<if(ruleDescriptor.parameterScope)>,
    <endif>ruleDescriptor.parameterScope:parameterScope());}; separator="\n"
<endif>

const char * (*getGrammarFileName)();
void     (*reset) (struct <name>_Ctx_struct * ctx);
void     (*free) (struct <name>_Ctx_struct * ctx);
<@members>
<@end>
<actions.(actionScope).context>
);

// Function prototypes for the constructor functions that external translation units
// such as delegators and delegates may wish to call.
//
ANTLR3_API p<name> <name>New (<inputType()> instream<recognizer.grammar.delegators:{g, p<g.recognizerName> <g:delegateName()> }>>);
ANTLR3_API p<name> <name>NewSSD (<inputType()> instream,
pANTLR3_RECOGNIZER_SHARED_STATE state<recognizer.grammar.delegators:{g, p<g.recognizerName>
<g:delegateName()>}> )
<if(!recognizer.grammar.grammarIsRoot)>
extern pANTLR3_UINT8   <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
<endif>

/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
 */
{
 *
 *ANTLR will define EOF, but we can't use that as it is too common in
 *in C header files and that would be confusing. There is no way to filter this out at the moment
 *so we just undef it here for now. That isn't the value we get back from C recognizers
 *anyway. We are looking for ANTLR3_TOKEN_EOF.
 */
 ifdefEOF
 #ifdef	EOF
 #define	EOF	ANTLR3_TOKEN_EOF
 #endif
 #ifndef TOKENSOURCE
 #define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
 #endif

 /* End of token definitions for <name> 
 */
/** */

 #ifdef __cplusplus
}
#endif

 /* END - Note:Keep extra line feed to satisfy UNIX systems */

>>

inputType() ::=<
grammarType() ::= <<
<if(PARSER>
parser
<endif>
<if(LEXER>
lexer
<endif>
<if(TREE_PARSER>
tree parser
<endif>
>>

mainName() ::= <<
<if(PARSER>
<name>
<endif>
<if(LEXER>
<name>
<endif>
<if(TREE_PARSER>
<name>
<endif>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScope(...)">

headerReturnType(ruleDescriptor) ::= <<
<if(LEXER>
<if(!ruleDescriptor.isSynPred>)
void
<else>
<returnType()>
<endif>
<else>
<returnType()>
<endif>
>>
// Produce the lexer output
//
lexer( grammar,
    name,
    tokens,
    scopes,
    rules,
    numRules,
    filterMode,
    superClass,
    labelType="pANTLR3_COMMON_TOKEN") ::= <<

<if(filterMode)>
/* Forward declare implementation function for ANTLR3_TOKEN_SOURCE interface when
* this is a filter mode lexer.
*/
static pANTLR3_COMMON_TOKEN <name>NextToken (pANTLR3_TOKEN_SOURCE toksource);

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
* lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
* than just BACKTRACKING. In some cases this might generate code akin to:
* if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
* However, I assume that the C compilers/optimizers are smart enough to work this one out
* these days - Jim
*/
#undef MEMOIZE
#define MEMOIZE(ri,si) if (BACKTRACKING>1) { RECOGNIZER->memoize(RECOGNIZER, ri, si) }
#undef HAVEPARSEDRULE
#define HAVEPARSEDRULE(r) if (BACKTRACKING>1) { RECOGNIZER->alreadyParsedRule(RECOGNIZER, r) }
<endif>

/* Forward declare the locally static matching functions we have generated and any predicate functions.
*/
<rules:{r | static ANTLR3_INLINE <headerReturnType(ruleDescriptor=r.ruleDescriptor)>}
<if(!r.ruleDescriptor.isSynPred)>m<endif><r.ruleDescriptor.name> (p<name>
ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope()>);};
separator="n">
static void <name>Free(p<name> ctx);

/* =--------------------------------------------------------------
* Lexer matching rules end.
* =--------------------------------------------------------------
*/
<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}
>
static void Free (pctx)
{
    if(memoize)
    {
        if(RULEMEMO != NULL)
        {
            RULEMEMO->free(RULEMEMO);
            RULEMEMO = NULL;
        }
    }
    if(grammar.directDelegates)
    {
        // Free the lexers that we delegated to
        // functions to. NULL the state so we only free it once.
        //
        {g:ctx->g:delegateName()->pLexer->rec->state = NULL;
         ctx->g:delegateName()->free(ctx->g:delegateName());}; separator="\n"
    }
    LEXER->free(LEXER);
    ANTLR3_FREE(ctx);
}

static void Reset (pctx)
{
    RECOGNIZER->reset(RECOGNIZER);
}

/** \brief Name of the grammar file that generated this code */
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code. */
static const char * getGrammarFileName()
{
    return fileName;
}

/** \brief Create a new lexer called <name> */

ANTLR3_API p<name> <name>New
(<inputType()> instream<grammar.delegators:{g|, <g:delegateName()>}>)
{
  // See if we can create a new lexer with the standard constructor
  //
  return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName()>}>);
}

/** rief Create a new lexer called <name>
*
* \param[in] instream Pointer to an initialized input stream
* \param[state] state Previously created shared recognizer stat 
* \return 
*     - Success p<name> initialized for the lex start 
*     - Fail NULL 
*/
ANTLR3_API p<name> <name>NewSSD
(pANTLR3_INPUT_STREAM instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, <g:delegateName()>}>)
{
  p<name> ctx; // Context structure we will build and return

  ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

  if  (ctx == NULL)
  {
    // Failed to allocate memory for lexer context
    return  NULL;
  }

  /* -------------------------------------------------------------------
  * Memory for basic structure is allocated, now to fill in 
  * in base ANTLR3 structures. We initialize the function pointers 
  * for the standard ANTLR3 lexer function set, but upon return 
  * from here, the programmer may set the pointers to provide custom 
  * implementations of each function. 
  *
  * We don't use the macros defined in <name>.h here so you can get a sense 
  * of what goes where. 
  */

  /* Create a base lexer, using the supplied input stream 
  */
ctx->pLexer = antlr3LexerNewStream(ANTLR3_SIZE_HINT, instream, state);

/* Check that we allocated the memory correctly */
if(ctx->pLexer == NULL)
{
ANTLR3_FREE(ctx);
return NULL;
}

/* Install the implementation of our <name> interface */
<rules:{r | <if(!r.ruleDescriptor.isSynPred)>ctx->m<r.ruleDescriptor.name> = m<r.ruleDescriptor.name>;<endif>}; separator="\n">

/** When the nextToken() call is made to this lexer's pANTLR3_TOKEN_SOURCE */
* it will call mTokens() in this generated code, and will pass it the ctx
* pointer of this lexer, not the context of the base lexer, so store that now.
*/
ctx->pLexer->ctx = ctx;

/** Install the token matching function */
ctx->pLexer->mTokens = (void (*)(void*))mTokens;

ctx->getGrammarFileName = getGrammarFileName;
ctx->free = <name>Free;
cctx->reset = <name>Reset;

<if(grammar.directDelegates)>
// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:>
{
ctx-><g:delegateName>() = <g.recognizerName>NewSSD(instream, ctx->pLexer->rec->state,
ctx->grammar.delegators:{g, <g:delegateName()> });}; separator="\n"}
<endif>
<if(grammar.delegators)>
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.
//

<grammar.delegators:
    {g|ctx->g:delegateName()= g:delegateName();}; separator="\n"
<endif>
<if(filterMode)>
    /*! We have filter mode turned on, so install the filtering nextToken function */
    ctx->pLexer->rec->state->tokSource->nextToken = <name>NextToken;
<endif>
<actions.lexer.apifuncs>

    /*! Return the newly built lexer to the caller */
    return ctx;
}
<if(cyclicDFAs)>

    /*! ==================================================================
    * DFA tables for the lexer
    */
    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
    /*! ==================================================================
    * End of DFA tables for the lexer
    */
    <endif>

    /*! ==================================================================
    * Functions to match the lexer grammar defined tokens from the input stream
    */
    <rules; separator="\n\n"

    /*! ==================================================================
    * Lexer matching rules end.
    */
    <if(synpreds)>

    /*! ==================================================================
    * Lexer syntactic predicates
    */
    <synpreds:{p | <lexerSynpred(predname=p)>}>
    /*! ==================================================================
    * Lexer syntactic predicates end.
    */
    <endif>

    /*! End of Lexer code */
filteringNextToken() ::= <<
/** An override of the lexer's nextToken() method that backtracks over mTokens() looking
* for matches in lexer filterMode. No error can be generated upon error; just rewind, consume
* a token and then try again. BACKTRACKING needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at BACKTRACKING==1.
*/
static pANTLR3_COMMON_TOKEN
<name>NextToken(pANTLR3_TOKEN_SOURCE toksource)
{
    pANTLR3_LEXER   lexer;
pANTLR3_RECOGNIZER_SHARED_STATE state;

    lexer   = (pANTLR3_LEXER)(toksource->super);
    state= lexer->rec->state;

    /* Get rid of any previous token (token factory takes care of
    * any deallocation when this token is finally used up.
    */
    state->token    = NULL;
    state->error    = ANTLR3_FALSE; /* Start out without an exception*/
    state->failed   = ANTLR3_FALSE;

    /* Record the start of the token in our input stream.
    */
    state->tokenStartCharIndex= lexer->input->istream->index(lexer->input->istream);
    state->tokenStartCharPositionInLine= lexer->input->getCharPositionInLine(lexer->input);
    state->tokenStartLine= lexer->input->getLine(lexer->input);
    state->text= NULL;

    /* Now call the matching rules and see if we can generate a new token
    */
    for(;;)
    {
        if  (lexer->input->istream->_LA(lexer->input->istream, 1) == ANTLR3_CHARSTREAM_EOF)
        {
            /* Reached the end of the stream, nothing more to do.
            */
            pANTLR3_COMMON_TOKEN    teof = &(toksource->eofToken);
            teof->setStartIndex (teof, lexer->getCharIndex(lexer));
    
        }
teof->setStopIndex (teof, lexer->getCharIndex(lexer));
teof->setLine(teof, lexer->getLine(lexer));
return teof;
}

state->token = NULL;
state->error = ANTLR3_FALSE; /* Start out without an exception*/
{
ANTLR3_MARKER m;

m = lexer->input->istream->mark(lexer->input->istream);
state->backtracking = 1; /* No exceptions */
state->failed = ANTLR3_FALSE;

/* Call the generated lexer, see if it can get a new token together.
*/
lexer->mTokens(lexer->ctx);
    state->backtracking = 0;

    /* mTokens backtracks with synpred at BACKTRACKING==2 
and we set the synpredgate to allow actions at level 1. !>

if(state->failed == ANTLR3_TRUE)
{
    lexer->input->istream->rewind(lexer->input->istream, m);
    lexer->input->istream->consume(lexer->input->istream); <!-- advance one char and try again !>
}
else
{
    lexer->emit(lexer); /* Assemble the token and emit it to the stream */
    return state->token;
}
}

>>

actionGate() ::= "BACKTRACKING==0"

filteringActionGate() ::= "BACKTRACKING==1"

/** How to generate a parser */
genericParser( grammar, 
    name, 
    scopes, 
    tokens, 
    tokenNames,
rules,
numRules,
bitsets,
inputStreamType,
superClass,
labelType,
members,
rewriteElementType, filterMode,
ASTLabelType="pANTLR3_BASE_TREE"
) ::= <<

@if(grammar.grammarIsRoot)>
/** \brief Table of all token names in symbolic order, mainly used for
 * error reporting.
 */
pANTLR3_UINT8 <name>TokenNames[length(tokenNames)+4]
 = {
   (pANTLR3_UINT8) "\<invalid>",  /* String to print to indicate an invalid token */
   (pANTLR3_UINT8) "\<EOR>",
   (pANTLR3_UINT8) "\<DOWN>",
   (pANTLR3_UINT8) "\<UP>",
   <tokenNames:{it |(pANTLR3_UINT8) <it>}; separator=",\n"};
<endif>

   <members>
   <end>

<rules:{r |<ruleAttributeScopeFuncMacro(scope=r.ruleDescriptor.ruleScope)>}>
<scopes:{it |<if(it.isDynamicGlobalScope)<globalAttributeScopeFuncMacro(it)><endif>}>

// Forward declare the locally static matching functions we have generated.
//
<rules:{r | static <headerReturnType(ruleDescriptor=r.ruleDescriptor)><r.ruleDescriptor.name>(p<name>ctx,<if(r.ruleDescriptor.parameterScope)><r.ruleDescriptor.parameterScope:parameterScope()>);}; separator="\n"> static void <name>Free(p<name> ctx);
static void <name>Reset (p<name> ctx);

@if(!LEXER)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
@if(recognizer.grammar.delegatedRules)>
// Delegated rules
//
<recognizer.grammar.delegatedRules:{ruleDescriptor|static <headerReturnType(ruleDescriptor)><ruleDescriptor.name>(p<name>ctx,<if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope()>);}>,

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/* For use in tree output where we are accumulating rule labels via label += ruleRef
 * we need a function that knows how to free a return scope when the list is destroyed.
 * We cannot just use ANTLR3_FREE because in debug tracking mode, this is a macro.
 */
static void ANTLR3_CDECL freeScope(void * scope)
{
    ANTLR3_FREE(scope);
}

/** rief Name of the grammar file that generated this code
 */
static const char fileName[] = "<fileName>";

/** rief Return the name of the grammar file that generated this code.
 */
static const char * getGrammarFileName()
{
    return fileName;
}

/** rief Create a new <name> parser and return a context for it.
 * 
 * \param[in] instream Pointer to an input stream interface.
 * \return Pointer to new parser context upon success.
 */
ANTLR3_API p<name> <name>New   (<inputStreamType> instream<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
{
    // See if we can create a new parser with the standard constructor
    //
    return <name>NewSSD(instream, NULL<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>);
}

/** rief Create a new <name> parser and return a context for it.
 * 
 * \param[in] instream Pointer to an input stream interface.
 * \return Pointer to new parser context upon success.
 */
ANTLR3_API p<name> <name>NewSSD   (<inputStreamType> instream, pANTLR3_RECOGNIZER_SHARED_STATE state<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
{
{  
  p<name> ctx; /* Context structure we will build and return */

  ctx= (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

  if(ctx == NULL)
  {
    // Failed to allocate memory for parser context
    //
    return NULL;
  }

  /* -------------------------------------------------------------------
  * Memory for basic structure is allocated, now to fill in
  * the base ANTLR3 structures. We initialize the function pointers
  * for the standard ANTLR3 parser function set, but upon return
  * from here, the programmer may set the pointers to provide custom
  * implementations of each function.
  *
  * We don't use the macros defined in <name>.h here, in order that you can get a sense
  * of what goes where.
  */

  <if(PARSER)>
  /* Create a base parser/recognizer, using the supplied token stream
   */
  ctx->pParser = antlr3ParserNewStream(ANTLR3_SIZE_HINT, instream->tstream, state);
  </endif>
  <if(TREE_PARSER)>
  /* Create a base Tree parser/recognizer, using the supplied tree node stream
   */
  ctx->pTreeParser = antlr3TreeParserNewStream(ANTLR3_SIZE_HINT, instream, state);
  </endif>

  /* Install the implementation of our <name> interface
   */
  <rules:{r | ctx-><r.ruleDescriptor.name>= <r.ruleDescriptor.name>;}; separator="\n">  
  <if(grammar.delegatedRules)>
  // Install the delegated methods so that they appear to be a part of this
  // parser
  //
  <grammar.delegatedRules:{ruleDescriptor | ctx-><ruleDescriptor.name>= <ruleDescriptor.name>;}; separator="\n">  
  ctx->free= <name>Free;
  ctx->reset= <name>Reset;
  ctx->getGrammarFileName= getGrammarFileName;
/* Install the scope pushing methods. */

<rules: {r |<if(r.ruleDescriptor.ruleScope)}>
<ruleAttributeScope(scope=r.ruleDescriptor.ruleScope)></n>
<endif}>
<recognizer.scopes:{it |<if(it.isDynamicGlobalScope)}>
<globalAttributeScope(it)></n>
<endif}>
<@apifuncs>

<@end>
@if(grammar.directDelegates)
// Initialize the parsers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
    {g|ctx-><g:delegateName()> = <g.recognizerName>NewSSD(instream, PSRSTATE, 
ctx<grammar.delegators:{g|, <g:delegateName()> }]}; separator="\n"}
<endif>
@if(grammar.delegators)
// Install the pointers back to parsers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
    {g|ctx-><g:delegateName()> = <g:delegateName>();}; separator="\n"}
<endif>
<actions.parser.apifuncs>
<actions.treeparser.apifuncs>
@if(memoize)
@if(grammar.grammarIsRoot)
/* Create a LIST for recording rule memos. */

RULEMEMO = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */</n>
<endif>
<endif>
/* Install the token table */

PSRSTATE->tokenNames = <grammar.composite.rootGrammar.recognizerName>TokenNames;

<@debugStuff()>

/* Return the newly built parser to the caller */

return ctx;
}

static void
Reset (p<name> ctx)
{
    RECOGNIZER->reset(RECOGNIZER);
}

/** Free the parser resources */
static void Free(p<name> ctx)
{
    /* Free any scope memory */
    <rules: {r
        |<if(r.ruleDescriptor.ruleScope)><ruleAttributeScopeFree(scope=r.ruleDescriptor.ruleScope)><\n        |<endif>}
        <recognizer.scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScopeFree(it)><\n        |<endif>}
    }
    
    <@cleanup>
    <@end>
    <if(grammar.directDelegates)>
    // Free the parsers that we delegated to
    // functions to.NULL the state so we only free it once.
    //</grammar.directDelegates:
    {g| ctx-><g:delegateName()>-><if(TREE_PARSER)>pTreeParser<else>pParser<endif>->rec->state = NULL;
    ctx-><g:delegateName()>->free(ctx-><g:delegateName()>>}; separator="\n">
    </grammar.directDelegates:
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
    if(RULEMEMO != NULL)
    {
        RULEMEMO->free(RULEMEMO);
        RULEMEMO = NULL;
    }
    </if(grammar.grammarIsRoot)><if(grammar.grammarIsRoot)>
    
    // Free this parser
    //</if(grammar.grammarIsRoot)>
    <if(TREE_PARSER)>
    ctx->pTreeParser->free(ctx->pTreeParser);
    </if(TREE_PARSER)>
    <else>
    ctx->pParser->free(ctx->pParser);
    </else>
    ANTLR3_FREE(ctx);

    /* Everything is released, so we can return */
    return;
/** Return token names used by this <grammarType()> *
* The returned pointer is used as an index into the token names table (using the token *
* number as the index).
* *
* return Pointer to first char * in the table.
*/
static pANTLR3_UINT8  *getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

/* Declare the bitsets */
<bitsets:{it | <bitsetDeclare(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)}>}

<if(cyclicDFAs>)

    /* DFA tables for the parser */
    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

    /* End of DFA tables for the parser */
    <endif>

    /* Parsing rules */
    <rules; separator="\n\n">  
    <if(grammar.delegatedRules)>  
    // Delegated methods that appear to be a part of this  
    // parser  
    //  
    <grammar.delegatedRules:{ruleDescriptor}
        <returnType()> <ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
        <endif><ruleDescriptor.parameterScope:parameterScope()>)
    <if(ruleDescriptor.hasReturnValue)>return <endif>ctx-><ruleDescriptor.grammar:delegateName()>
    </ruleDescriptor.name>(ctx-
    <ruleDescriptor.grammar:delegateName()><if(ruleDescriptor.parameterScope.attributes)>,
    <ruleDescriptor.name>(ctx- >
    <ruleDescriptor.grammar:delegateName()><if(ruleDescriptor.parameterScope.attributes)>,

rules,
umRules,
bitsets,
filterMode,
labelType={<ASTLabelType>},
ASTLabelType="pANTLR3_BASE_TREE",
superClass="TreeParser",
members={<actions.treeparser.members>}
) ::= <<
genericParser(inputStreamType="pANTLR3_COMMON_TREE_NODE_STREAM",
rewriteElementType="NODE", ...)>>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc.... just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
static void <ruleName>_fragment(p<name> ctx <ruleDescriptor.parameterScope:parameterScope()>)
{
<ruleLabelDefs()>
<ruleLabelInitializations()>
@if(trace)>
ANTLR3_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
:block>
ANTLR3_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n",LT(1),failed,BACKTRACKING);
@else>
:block>
<ruleCleanUp()>}
// $ANTLR end <ruleName>
>>
synpred(predname) ::= <<
static ANTLR3_BOOLEAN <predname>(p<name> ctx)
{
ANTLR3_MARKER   start;
ANTLR3_BOOLEAN  success;
BACKTRACKING++;
@start()
start = MARK();
<prename>_fragment(ctx);  // can never throw exception
success = !(FAILEDFLAG);
REWIND(start);
@stop()
BACKTRACKING--;
FAILEDFLAG = ANTLR3_FALSE;
return success;
}
>
lexerSynpred(predname) ::= <<
synpred(predname)
>>

ruleMemoization(rname) ::= <<
@if(memoize)
if ( (BACKTRACKING>0) && (HAVEPARSERULE(<ruleDescriptor.index>)) )
{
@if(ruleDescriptor.hasMultipleReturnValues)
@if(!ruleDescriptor.isSynPred)
retval.start = 0;
@if(!ruleDescriptor.isSynPred)
scopeClean()  
@endif
@if(!ruleDescriptor.isSynPred)
scopeClean()  
@endif
  (ruleDescriptor.actions.after):execAfter()
  <finalCode(finalBlock=finally)>
@if(!ruleDescriptor.isSynPred)
scopeClean()  
@endif
   return <ruleReturnValue>();
  
@endif
}@debugClean()  
{return <ruleReturnValue>();
}@debugClean()
@if(!ruleDescriptor.isSynPred)
scopeClean()  
@endif

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(HASEXCEPTION())
{
  goto rule<ruleDescriptor.name>Ex;
}
@if(backtracking)
@if(HASFAILED())
{
  <scopeClean()>
  @debugClean()  
  return <ruleReturnValue>();
  
@endif
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
;if(backtracking)
if (BACKTRACKING>0)
{
   FAILEDFLAG = <true_value>();
   <scopeClean()>
   return <ruleReturnValue()>;
}
<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/**
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
static <returnType()>
<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope()>)
{
;if(trace)ANTLR3_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", LT(1),
BACKTRACKING);<endif>
<ruleDeclarations()>
<ruleDescriptor.actions.declarations>
<ruleLabelDefs()>
<ruleInitializations()>
<ruleDescriptor.actions.init>
<ruleMemoization(rname=ruleName)>
<ruleLabelInitializations()>
<@preamble()>{
    <block>
}
<ruleCleanUp()>
<if(exceptions)>
    if(HASEXCEPTION())
    {
      <exceptions:{e|<catch(decl=e.decl,action=e.action)>\
    }
    }
    else
    {

}}
<ruleDescriptor.actions.after>:execAfter()
}
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
if (HASEXCEPTION())
{
    PREPORTERROR();
    PRECOVER();
    @}setErrorReturnValue()
}
<if(ruleDescriptor.actions.after)>
else
{
    <(ruleDescriptor.actions.after):execAfter()>
}<
<endif>
<endif>
<endif>
<endif>

@if(trace)>ANTLR3_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", LT(1), failed, BACKTRACKING);<endif>
<memoize()>
<if(finally)>
<finalCode(finalBlock=finally)>
<endif>
<scopeClean()>
 @}postamble()>
return <ruleReturnValue()>
;
} /* $ANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
{
    <finalBlock>
}

>>
catch(decl,action) ::= <<
/* catch(decl,action) */
*/
{
    <e.action>
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval;\n
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name>; }
>
<endif>
<if(memoize)>
ANTLR3_MARKER <ruleDescriptor.name>_StartIndex;
<endif>
>>

ruleInitializations() ::= <<
/* Initialize rule variables */
*/
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.returnScope.attributes:{ a |
<a.initValue>retval.<a.name> = <a.initValue>;<endif>
]>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.initValue><a.name> = <a.initValue>;<endif>
]>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex = INDEX();\n<endif>
<ruleDescriptor.useScopes:{it |<scopeTop(it)> = <scopePush(it)>;}; separator="\n">
<ruleDescriptor.ruleScope:{it |<scopeTop(it.name)> = <scopePush(it.name)>;}; separator="\n">
>>&gt;

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
 :{it |<labelType> it.label.text;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{it |pANTLR3_VECTOR list_ it.label.text;}; separator="\n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
 :ruleLabelDef(); separator="\n"
>
>>
ruleLabelInitializations() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels>
: {[it |it.label.text] = NULL;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>
: {[it |list_.it.label.text] = NULL;}; separator="\n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels>
: ruleLabelInitVal(); separator="\n"
>
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.start = LT(1); retval.stop = retval.start;<\n
<endif>
<endif>
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>
: {[it |<labelType> it.label.text;];}; separator="\n"
>
<ruleDescriptor.charLabels:{it |ANTLR3_UINT32 it.label.text;}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels>
: {[it |ANTLR3_INT_TRIE list_.it.label.text;];}; separator="\n"
>
>>

lexerRuleLabelInit() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>
: {[it |it.label.text] = NULL;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels>
: {[it |list_.it.label.text] = antlr3IntTrieNew(31);}; separator="\n"
>
>>

lexerRuleLabelFree() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>

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ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( BACKTRACKING>0 ) { MEMOIZE(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); } 
<endif>
<endif>
>>

ruleCleanUp() ::= <<
// This is where rules clean up and exit
//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<
<ruleDescriptor.useScopes:{it |<scopePop(it)>}; separator="\n"
<ruleDescriptor.ruleScope:{it |<scopePop(it.name)>}; separator="\n"
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
//   Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
 *  * $ANTLR start <ruleName>
 *  * Looks to match the characters the constitute the token <ruleName>
 *  * from the attached input stream.
 *  *
 *  * \remark
 *  * - lexer->error == ANTLR3_TRUE if an exception was thrown.
 */
static ANTLR3_INLINE
void m<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope()>)
{
ANTLR3_UINT32 _type;
<ruleDeclarations()>
<ruleDescriptor.actions.declarations>
<lexerRuleLabelDefs()>
<if(trace)>System.out.println("enter <ruleName> "+(char)LA(1)+" line="+GETLINE()+":"+GETCHARPOSITIONINLINE()+" failed="+failed+" backtracking="+BACKTRACKING");<endif>

<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelInit()>
<ruleDescriptor.actions.init>

<block><

<else>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelInit()>
_type = <ruleName>;

<ruleDescriptor.actions.init>

<block>
LEXSTATE->type = _type;
<endif>
<if(trace)> ANTLR3_FPRINTF(stderr, "exit <ruleName> '%c' line=%d;%d failed = %d, backtracking =%d":,LA(1),GETLINE(),GETCHARPOSITIONINLINE(),failed,BACKTRACKING);<endif>
<ruleCleanUp()>

/* How to generate a rule in the lexer; naked blocks are used for
 * fragment rules, which do not produce tokens.
 */
/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
 * wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
 */
static void
mTokens(p<name> ctx)
{
    <block><\n>
    goto ruleTokensEx; /* Prevent compiler warnings */
    ruleTokensEx: ;
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>::<description>
    {
        int alt<decisionNumber>=<maxAlt>;
        <decls>
        <@predecision()> 
        <decision>
        <@postdecision()>
        <@prebranch()>
        switch (alt<decisionNumber>)
        {
            <alts:{a | <altSwitchCase(i,a)>}>
        }
        <@postbranch()>
    }
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    {

ANTLR3_UINT32 alt<decisionNumber>;

alt<decisionNumber>==<maxAlt>;

<decls>
  </@predecision()>
  <decision>
  </@postdecision()>
  switch (alt<decisionNumber>)
  {
  <alts:{a | <altSwitchCase(i,a)>}}
  }
  }
/>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
</@prealt()>
<alts>
</@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
</@prealt()>
<alts>
</@postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
{
  int cnt<decisionNumber>=0;
  <decls>
  </@preloop()>

  for (;;)
  {
    int alt<decisionNumber>==<maxAlt>;
    </@predecision()>
  <decision>
switch (alt<decisionNumber>)
{
    <alts:{a | <altSwitchCase(i,a)>}> 
    default:

    if ( cnt<decisionNumber> >= 1 )
    {
        goto loop<decisionNumber>;
    }
    <ruleBacktrackFailure()>
    <earlyExitEx()>
    <@earlyExitException()>
    goto rule<ruleDescriptor.name>Ex;
    }
    cnt<decisionNumber>++;
}

loop<decisionNumber>: ; /* Jump to here if this rule does not match */
    <@postloop()>
}

earlyExitEx() ::= <<
/* mismatchedSetEx() */
*/
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_EARLY_EXIT_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_EARLY_EXIT_NAME;
<=
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>

    <@preloop()>
for (;;)
{
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
switch (alt<decisionNumber>)
{
<alt:{a | <altSwitchCase(i,a)> }>
default:
    goto loop<decisionNumber>/break out of the loop */
    break;

loop<decisionNumber>: ; /* Jump out to here if this rule does not match */
<@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation */
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative */
* number. A DFA predicts the alternative and then a simple switch */
* does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum,alt) ::= <<
    case <altNum>:
    <@prealt()>
    <alt>
    break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    // <fileName>:<description>
    {
    <@declarations()>
    <@initializations()>
    <elements:element()>
    <rew>
    <@cleanup()>
    }
>>

// E L E M E N T S
/** What to emit when there is no rewrite. For auto build */
* mode, does nothing. */
noRewrite(rewriteBlockLevel,treeLevel) ::= ""
/** Dump the elements one per line */
element(e) ::= <<
   @prematch()
   <e.el><\n>
 >>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
   if(label) <label> = (<labelType>) endif MATCHT(<token>,
   &FOLLOW_<token>_in_<ruleName><elementIndex>);
   <checkRuleBacktrackFailure>()
 >>

/** ids+=ID */
tokenRefAndLlistLabel(token,label,elementIndex,terminalOptions) ::= <<
   <tokenRef(...)
   <llistLabel(elem=label,...)>  
 >>

llistLabel(label,elem) ::= <<
   if (list_<label> == NULL)
   {
      list_<label>=ctx->vectors->newVector(ctx->vectors);
   }
   list_<label>->add(list_<label>, <elem>, NULL);
 >>

/** match a character */
charRef(char,label) ::= <<
   if(label)
   <label> = LA(1);<\n>
   endif
   MATCHC(<char>);
   <checkRuleBacktrackFailure>()
 >>

/** match a character range */
charRangeRef(a,b,label) ::= <<
   if(label)
   <label> = LA(1);<\n>
   endif
   MATCHRANGE(<a>, <b>);
   <checkRuleBacktrackFailure>()
 >>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label> = LA(1);<

<else>
<label> = (<labelType>)LT(1);<

<endif>
<endif>
if ( <s> )
{
    CONSUME();
    <postmatchCode>
<if(!LEXER)>
PERRORRECOVERY=ANTLR3_FALSE;
<endif>
    <if(!backtracking">
        FAILEDFLAG=ANTLR3_FALSE;
    </if> <

} else
{
    <ruleBacktrackFailure()>
    <mismatchedSetEx()>
    <@mismatchedSetException()>
<if(LEXER)>
    LRECOVER();
<else>
    RECOVERFROMMISMATCHEDSET(&FOLLOW_set_in_<ruleName><elementIndex>);
</if> <
    goto rule<ruleDescriptor.name>Ex;
}

>>
mismatchedSetEx() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_MISMATCHED_SET_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_MISMATCHED_SET_NAME;
<if(PARSER)>
EXCEPTION->expectingSet = &FOLLOW_set_in_<ruleName><elementIndex>;
</if> <
>
mismatchedSetEx() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_MISMATCHED_SET_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_MISMATCHED_SET_NAME;
<if(PARSER)>
EXCEPTION->expectingSet = &FOLLOW_set_in_<ruleName><elementIndex>;
</if> <
>
matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
</matchSet(...)> 
<listLabel(elem=label,...)> 
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
wildcard(token,label,elementIndex,terminalOptions) ::= <<

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<

wildcardChar(label, elementIndex) ::= <<

wildcardCharListLabel(label, elementIndex) ::= <<

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<

/** Match a rule reference by invoking it possibly with arguments *
* and a return value or values. The 'rule' argument was the *
* target rule name, but now is type Rule, whose toString is *
* same: the rule name. Now though you can access full rule *
* descriptor stuff. */
ruleRef(rule.label,elementIndex.args,scope) ::= <<
FOLLOWPUSH(FOLLOW_rule.label_in_rule.label<elementIndex>);
<if(label)> <label>=<endif> <if(scope)><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>-><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
FOLLOWPOP();
<checkRuleBacktrackFailure()>
>>

/*** ids+=r */
ruleRefAndListLabel(rule.label,elementIndex.args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/*** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/**<description> */
<if(label)>
{
ANTLR3_MARKER <label>Start<elementIndex> = GETCHARINDEX();
<if(scope)><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>->
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, Start<elementIndex>);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT;
}
<else>
<if(scope)><scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>-><if><rule.name>(ctx<if(scope)>->
<scope.delegateName()>->
<checkRuleBacktrackFailure()>
<endif>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule.label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/*** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
ANTLR3_UINT32 <label>Start<elementIndex>;  
<labelType> <label>;  
<label>Start<elementIndex> = GETCHARINDEX();  
MATCHC(ANTLR3_CHARSTREAM_EOF);  
<checkRuleBacktrackFailure()>  
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);  
<label>->setTypelabel(label), ANTLR3_TOKEN_EOF);  
<label>->setStartIndex(label), <label>Start<elementIndex>);  
<label>->setStopIndex(label), GETCHARINDEX()-1);  
<label>->input = INPUT->tnstream->istream;
}

#else
MATCHC(ANTLR3_CHARSTREAM_EOF);  
<checkRuleBacktrackFailure()>  
<endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= 
    "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>  
if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
    MATCHC(ANTLR3_TOKEN_DOWN, NULL);  
<checkRuleBacktrackFailure()>  
<children:element()>
    MATCHC(ANTLR3_TOKEN_UP, NULL);  
<checkRuleBacktrackFailure()>  
}
<else>
MATCHC(ANTLR3_TOKEN_DOWN, NULL);  
<checkRuleBacktrackFailure()>  
<children:element()>
MATCHC(ANTLR3_TOKEN_UP, NULL);  
<checkRuleBacktrackFailure()>  
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
validateSemanticPredicate(pred, description) ::= <<
if (!evalPredicate(...))
{
    ruleBacktrackFailure()
    newFPE(...)
}
>>

newFPE() ::= <<
    CONSTRUCTEX();
    EXCEPTION->type = ANTLR3_FAILED_PREDICATE_EXCEPTION;
    EXCEPTION->message = (void *)"<description>";
    EXCEPTION->ruleName = (void *)"<ruleName>";
    <
    >>

// Fixed DFA (if-then-else)
dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
    else
    {
        if(eotPredictsAlt)
            alt<decisionNumber> = <eotPredictsAlt>;
        else
            ruleBacktrackFailure()

            newNVException()
            goto rule<descriptor.name>Ex;

            </endif>
    }
}
>>

newNVException() ::= <<
    CONSTRUCTEX();
    EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
    EXCEPTION->message = (void *)"<description>";
    EXCEPTION->decisionNum = <decisionNumber>;
    EXCEPTION->state = <stateNumber>;
    <@noViableAltException()>
    <
    >>

//
/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{ int LA<decisionNumber>_<stateNumber> = LA(<k>);
  <edges; separator="\nelse ">
}
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackStateDecls()::= <<
ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{ /* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) */
  int LA<decisionNumber>_<stateNumber> = LA(<k>);
  <edges; separator="\nelse ">
  <if(eotPredictsAlt)>
  <if(!edges)>
  alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
  </if(!edges)>
  alt<decisionNumber><eotPredictsAlt>; <! if no edges, don't gen ELSE !>
  </if(eotPredictsAlt)>
  <if(!edges)>
  alt<decisionNumber><eotPredictsAlt>;
  </if(!edges)>
  </if(eotPredictsAlt)>
}>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>))
{
    <targetState>
}
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
    <edges; separator="n">
    default:
    <if(eotPredictsAlt)>
        alt<decisionNumber>=<eotPredictsAlt>;
    <else>
        <ruleBacktrackFailure()>
        <newNVException()>
        goto rule<ruleDescriptor.name>Ex;<n>
    <endif>
    } <n>
} <n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
    <edges; separator="\n">
} <n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k>) )
{
    <edges; separator="n">\n
    <if(eotPredictsAlt)>
    default:
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<n>
    <endif>
    } <n>
} <n>
>>
dfaeEdgeSwitch(labels, targetState) ::= <<
<labels:{it |case <it>:}; separator=":n”>
{
<targetState>
}
break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
&cdfa<decisionNumber>);
<checkRuleBacktrackFailure()>
>>

/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
* which are then used to statically initialize the dfa structure, which means that there
* is no runtime initialization whatsoever, other than anything the C compiler might
* need to generate. In general the C compiler will lay out memory such that there is no
* runtime code required.
*/
cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
*  <dfa.description>
*/
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
{<dfa.eot; wrap="\n", separator="", null="-1">};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
{<dfa.eof; wrap="\n", separator="", null="-1">};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
{<dfa.min; wrap="\n", separator="", null="-1">};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
{<dfa.max; wrap="\n", separator="", null="-1">};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
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static const ANTLR3_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
{
<dfa.special; wrap="\n", separator="", null="-1">
}

/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty  NULL

<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_T<i0>[] =
{<table; separator="", wrap="\n", null="-1">
\};

/* Transition tables are a table of sub tables, with some tables
* reused for efficiency. */
static const ANTLR3_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{
<dfa.transitionEdgeTables:{xref<dfa<dfa.decisionNumber>_T<xref>}; separator="", wrap="\n", null="_empty">
}

<if(dfa.specialStateSTs)>
static ANTLR3_INT32 dfa<dfa.decisionNumber>_sst(p<name> ctx, pANTLR3_BASE_RECOGNIZER recognizer,
pANTLR3_INT_STREAM is, pANTLR3_CYCLIC_DFA dfa, ANTLR3_INT32 s)
{
ANTLR3_INT32 _s;
_s = s;
switch (s)
{
<dfa.specialStateSTs:{state |
case <i0>:<state>}; separator="\n">

<if(backtracking)>
  if (BACKTRACKING > 0)
  {
    FAILEDFLAG = ANTLR3_TRUE;
    return -1;
  }
<endif>

CONSTRUCTEX();
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<dfa.description>";
EXCEPTION->decisionNum = <dfa.decisionNumber>;
EXCEPTION->state = _s;
<@noViableAltException()>
return -1;
}
@endif

<@errorMethod()>

/* Declare tracking structure for Cyclic DFA <dfa.decisionNumber> */
static ANTLR3_CYCLIC_DFA cdfa<dfa.decisionNumber>
 =
    <dfa.decisionNumber>, /* Decision number of this dfa */
    /* Which decision this represents: */
    (const pANTLR3_UCHAR)"<dfa.description>",
    <if(dfa.specialStateSTs)>
        (CDFA_SPECIAL_FUNC) dfa<dfa.decisionNumber>_sst,
    <else>
        (CDFA_SPECIAL_FUNC) antlr3dfaspecialStateTransition, /* Default special state transition function*/
    </endif>
    antlr3dfaspecialTransition, /* DFA specialTransition is currently just a default function in the runtime */
    antlr3dfapredict, /* DFA simulator function is in the runtime */
    dfa<dfa.decisionNumber>_eot, /* EOT table */
    dfa<dfa.decisionNumber>_eof, /* EOF table */
    dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
    dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
    dfa<dfa.decisionNumber>_accept, /* Accept table */
    dfa<dfa.decisionNumber>_special, /* Special transition states */
    dfa<dfa.decisionNumber>_transitions /* Table of transition tables */
};
/* End of Cyclic DFA <dfa.decisionNumber> */
----------------------

/** A state in a cyclic DFA; it's a special state and part of a big switch on */
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<

ANTLR3_UINT32 LA<decisionNumber>._<stateNumber>;</n>
ANTLR3_MARKER index<decisionNumber>._<stateNumber>;</n>
LA<decisionNumber>_<stateNumber> = LA(1);

<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = INDEX();
REWINDLAST();
<endif>
s = -1;
<edges; separator="else">
<if(semPredState)> <! return input cursor to state before we rewound !>
SEEK(index<decisionNumber>_<stateNumber>);
<endif>
if ( s>=0 ) {
|
return s;
|
}
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>) ) {
  s = <targetStateNumber>;
}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "( (<left>) && (<right>) )"
orPredicates(operands) ::= "(<operands:{o|(<o>)}; separator="||">)"
notPredicate(pred) ::= "!( <evalPredicate(pred,{})> )"
evalPredicate(pred,description) ::= "<(pred)>"
evalSynPredicate(pred,description) ::= "<pred>(ctx)"
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
((LA<decisionNumber>_<stateNumber> >= <lower>) && (LA<decisionNumber>_<stateNumber> <= <upper>))%

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((LA(<k>) >= <lower>) && (LA(<k>) <= <upper>))"

setTest(ranges) ::= "<ranges; separator=" || ">

// A T T R I B U T E S

makeScopeSet() ::= <<
/* makeScopeSet()
*/
/** Definition of the <scope.name> scope variable tracking
* structure. An instance of this structure is created by calling
* <name>_<scope.name>Push().
*/
typedef struct <scopeStruct(sname=scope.name,...)>_struct
{
    /** Function that the user may provide to be called when the
    * scope is destroyed (so you can free pANTLR3_HASH_TABLES and so on)
    *
    * \param POinter to an instance of this typedef/struct
    */
    void (ANTLR3_CDECL *free)(struct <scopeStruct(sname=scope.name,...)>_struct * frame);

    /*===============================================================================
    * Programmer defined variables...
    */
    <scope.attributes:{it |<it.decl>;}; separator="\n">  

    /* End of programmer defined variables
    */
    <scopeStruct(sname=scope.name,...)> *, * <scopeType(sname=scope.name,...)>;

}>>
globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>
ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>
globalAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncDecl(scope)
*/
/* -------------------------------------------------------------------------
* Function declaration for creating a <name>_<scope.name> scope set
*/
static <scopeType(sname=scope.name,...)>   <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ------------------------------------------------------------------------- */
<endif>
>>
globalAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncMacro(scope)
*/
/** Function for popping the top value from a <scopeStack(sname=scope.name)>
*/
void
<scopePopName(sname=scope.name,...)>(p<name> ctx)
{
  // First see if the user defined a function they want to be called when a
  // scope is popped/freed.
  //
  // If the user supplied the scope entries with a free function, then call it first
  //
  if(SCOPE_TOP(<scope.name>)->free != NULL)
  {
    SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
  }
Now we decrement the scope's upper limit bound. We do not actually pop the scope as
we want to reuse scope entries if we do continuous push and pops. Most scopes don't
next too far so we don't want to keep freeing and allocating them

ctx-><scopeStack(sname=scope.name,...)>._limit--;
SCOPE_TOP(<scope.name>) = (scopeType(sname=scope.name))(ctx-><scopeStack(sname=scope.name,...)>->
get(ctx-><scopeStack(sname=scope.name,...)>), ctx-><scopeStack(sname=scope.name,...)>._limit - 1));

ruleAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncDecl(scope)
 */
/* .................................................................
* Function declarations for creating a <name>_<scope.name> scope set
*/
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ................................................................. */

<endif>
>>

ruleAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncMacro(scope)
 */
/** Function for popping the top value from a <scopeStack(sname=scope.name,...)>
 */
void <scopePopName(sname=scope.name,...)>(p<name> ctx)
{
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    // If the user supplied the scope entries with a free function, then call it first
    // if(SCOPE_TOP(<scope.name>)->free != NULL)
    {
        SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
    }
    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
// next too far so we don't want to keep freeing and allocating them
//
ctx-><scopeStack(sname=scope.name,...)>._limit--;  
SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>)-
>get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>._limit - 1));
}

<endif>
>>

globalAttributeScopeDef(scope) ::=  
<<
/* globalAttributeScopeDef(scope)
*/
<if(scope.attributes>)
/** Pointer to the  <scope.name> stack for use by <scopePushName(sname=scope.name)>() 
* and <scopePopName(sname=scope.name,...)>()  
*/
pANTLR3_STACK <scopeStack(sname=scope.name)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name)>._limit;
/** Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)>
*/
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes>)
/* ruleAttributeScopeDef(scope)
*/
<if(scope.attributes>)
/** Pointer to the  <scope.name> stack for use by <scopePushName(sname=scope.name)>() 
* and <scopePopName(sname=scope.name,...)>()  
*/
pANTLR3_STACK <scopeStack(sname=scope.name,...)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name,...)>._limit;
/** Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)>
*/
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

globalAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes>)
/* globalAttributeScopeFuncs(scope) 
*/


ruleAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)>
<endif>
>>

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>._limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>._limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>

globalAttributeScopeFree(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFree(scope)
*/
ctx-><scopeStack(sname=scope.name,...)]->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

ruleAttributeScopeFree(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFree(scope)
*/


ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>

>>

scopeTopDecl(sname) ::= <<
p<name>_<sname>Top
>>

scopeTop(sname) ::= <<
ctx-><scopeTopDecl(sname=sname,...)>
>>

scopePop(sname) ::= <<
<scopePopName(sname=sname,...)>(ctx);
>>

scopePush(sname) ::= <<
p<name>_<sname>Push(ctx)
>>

scopePopName(sname) ::= <<
p<name>_<sname>Pop
>>

scopePushName(sname) ::= <<
p<name>_<sname>Push
>>

scopeType(sname) ::= <<
p<name>_<sname>_SCOPE
>>

scopeStruct(sname) ::= <<
<name>_<sname>_SCOPE
>>

scopeStack(sname) ::= <<
p<name>_<sname>Stack
>>

attributeFuncs(scope) ::= <<
<if(scope.attributes)>
/* attributeFuncs(scope)
*/

static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope)
{
    ANTLR3_FREE(scope);
}
/** \brief Allocate initial memory for a <name> <scope.name> scope variable stack entry and add it to the top of the stack. */

* \remark By default the structure is freed with ANTLR_FREE(), but you can use the \@init action to install a pointer to a custom free() routine by adding the code:
* \code
* <scopeTop(sname=scope.name)>->free = myroutine;
* \endcode
*
* With lots of comments of course! The routine should be declared in \@members { } as:
* \code
* void ANTLR3_CDECL myfunc(<scopeType(sname=scope.name)> ptr).
* \endcode
*
* It should perform any custom freeing stuff that you need (call ANTLR_FREE3, not free())
* NB: It should not free the pointer it is given, which is the scope stack entry itself
* and will be freed by the function that calls your custom free routine.
* */

static <scopeType(sname=scope.name)>
<scopePushName(sname=scope.name)>(p<name> ctx)
{
    /* Pointer used to create a new set of attributes */
    <scopeType(sname=scope.name)> newAttributes;

    /* Allocate the memory for a new structure if we need one. */
    if (ctx-><scopeStack(sname=scope.name)>->size(ctx-><scopeStack(sname=scope.name)>) > ctx-><scopeStack(sname=scope.name)>_limit)
    {
        // The current limit value was less than the number of scopes available on the stack so we can just reuse one. Our limit tracks the stack count, so the index of the entry we want is one less than that, or conveniently, the current value of limit.
        //
        newAttributes = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name)>)->get(ctx-><scopeStack(sname=scope.name)>, ctx-><scopeStack(sname=scope.name)>_limit);
    }
    else
    { // Need a new allocation
        //
        newAttributes = (<scopeType(sname=scope.name)>)
    }

}
ANTLR3_MALLOC(sizeof(<scopeStruct(sname=scope.name)>));

if  (newAttributes != NULL)
{
    /* Standard ANTLR3 library implementation */
    ctx-><scopeStack(sname=scope.name)>->push(ctx-><scopeStack(sname=scope.name)>, newAttributes, (void (*)(void *))<scope.name>Free);
}

// Blank out any previous free pointer, the user might or might install a new one.
//
newAttributes->free = NULL;

// Indicate the position in the available stack that the current level is at
//
ctx-><scopeStack(sname=scope.name)>_limit++;

/* Return value is the pointer to the new entry, which may be used locally
 * without de-referencing via the context.
 */
return  newAttributes;
}

returnStructName(r) ::= 
"<r.name>_return"

returnType() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()> <else>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()> <else>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
ANTLR3_BOOLEAN
<endif>
%

/** Generate the C type associated with a single or multiple return
 * value(s).
 */
ruleLabelType(referencedRule) ::= <%
delegateName(d) ::= <<
<d.label><d.label><else>g<it.name><endif>
>>
/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "0".
*/
initWithValue(typeName) ::= <<
=cTypeInitMap.(typeName)
>>
/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>
#elseundef	RETURN_TYPE_<label.label.text>
#define	RETURN_TYPE_<label.label.text> <ruleLabelType(referencedRule=label.referencedRule>)

>>&
/** Rule label default value */
ruleLabelInitVal(label) ::= <<
>>&

ASTLabelType() ::= ""<if(recognizer.ASTLabelType)>recognizer.ASTLabelType"<else>pANTLR3_BASE_TREE<endif>"
/** Define a return struct for a rule if the code needs to access its
*  start/stop tokens, tree stuff, attributes, ... Leave a hole for
*  subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(!ruleDescriptor.hasMultipleReturnValues)
typedef struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>_struct
{
<if(!TREE_PARSER)>
  /** Generic return elements for ANTLR3 rules that are not in tree parsers or returning trees
*/
  pANTLR3_COMMON_TOKEN  start;

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/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "ctx->SCOPE_STACK(<scope>)"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<scope>,<attr.name>
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>=<expr>;
<else>
<attr.name>=<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {ids} or e+=expr {e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>->getChannel(<scope>))"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
    (STRSTREAM->toStringSS(STRSTREAM, <scope>.start, <scope>.start))
  <else>
    (STRSTREAM->toStringTT(STRSTREAM, <scope>.start, <scope>.stop))
  <endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>->getChannel(<scope>))"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
    INPUT->toStringSS(INPUT, ADAPTOR->getTokenStartIndex(ADAPTOR, retval.start), ADAPTOR->getTokenStopIndex(ADAPTOR, retval.start))
  <else>
    STRSTREAM->toStringTT(STRSTREAM, retval.start, LT(-1))
  <endif>
>>

lexerRulePropertyRef_text(scope,attr) ::= "LEXER->getText(LEXER)"
lexerRulePropertyRef_type(scope,attr) ::= ".type"
lexerRulePropertyRef_line(scope,attr) ::= "LEXSTATE->tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "LEXSTATE->tokenStartCharPositionInLine"
lexerRulePropertyRef_channel(scope,attr) ::= "LEXSTATE->channel"
lexerRulePropertyRef_start(scope,attr) ::= "LEXSTATE->tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(LEXER->getCharIndex(LEXER)-1)"
lexerRulePropertyRef_index(scope,attr) ::= 
"-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= 
"LEXER->getText(LEXER)->toInt32(LEXER->getText(LEXER))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>;"

/** How to deal with an @after for C targets. Because we cannot rely on
*  any garbage collection, after code is executed even in backtracking
*  mode. Must be documented clearly.
*/
execAfter(action) ::= <<
{ <action> }
>>

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( actions.(actionScope).synpredgate )
{
  <action>
}
<else>
if ( BACKTRACKING == 0 )
{
  <action>
}
<endif>
<else>
{ <action>
}
<endif>
>>

// MISC (properties, etc...)
bitsetDeclare(name, words64) ::= <<
/** Bitset defining follow set for error recovery in rule state: <name> */
staticANTLR3_BITWORD <name>._bits[] = { <words64>{ANTLR3_UINT64_LIT(<it>)}; separator=" ", " };
static ANTLR3_BITSET_LIST <name> = { <name>._bits, <length(words64)> };
>>
bitset(name, words64) ::= <<
antlr3BitSetAPI(&<name>); <\n>>

codeFileExtension() ::= ".c"

true_value() ::= "ANTLR3_TRUE"
false_value() ::= "ANTLR3_FALSE"

Found in path(s):
*/

/*
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*/

/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
@super.imports()>
import org.antlr.stringtemplate.*;
import org.antlr.stringtemplate.language.*;
import java.util.HashMap;

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
public StringTemplate st;
public Object getTemplate() { return st; }
public String toString() { return st==null?null:st.toString(); }
>>

@genericParser.members() ::= <<
<@super.members()>
protected StringTemplateGroup templateLib =
    new StringTemplateGroup("<name>Templates", AngleBracketTemplateLexer.class);

public void setTemplateLib(StringTemplateGroup templateLib) {
    this.templateLib = templateLib;
}
public StringTemplateGroup getTemplateLib() {
    return templateLib;
}
/** allows convenient multi-value initialization:
 *  "new STAttrMap().put(...).put(...)"
 */
@SuppressWarnings("serial")
public static class STAttrMap extends HashMap<String, Object> {
    public STAttrMap put(String attrName, Object value) {
        super.put(attrName, value);
        return this;
    }
}

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, {<label>.getTemplate()})>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
@if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
}</if>

}}}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)>
<replaceTextInLine()>
<endif>
<endif>
>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.getTokenStream()).replace(
input.getTreeAdaptor().getTokenStartIndex(retval.start),
input.getTreeAdaptor().getTokenStopIndex(retval.start),
retval.st);
<else>
((TokenRewriteStream)input).replace(
((Token)retval.start).getTokenIndex(),
input.LT(-1).getTokenIndex(),
retval.st);
<endif>
>>

rewriteTemplateAlt(alt) ::= <<
// <alt.description>
<if(alt.pred)>
if (<alt.pred>) {
retval.st = <alt.alt>;
}
<else>

retval.st = <alt.alt>;

</else>
>>

rewriteEmptyTemplate(alts) ::= <<
nul;
>>

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name, args) ::= <%
templateLib.getInstanceOf("<name>"<if(args),
new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
<endif})
%>
/* expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <%
templateLib.getInstanceOf(<expr><if(args)>,
new STAttrMap(args:{a | .put("<a.name>", <a.value})})
<endif>)
%

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
new StringTemplate(templateLib, "<template>"<if(args)>,
new STAttrMap(args:{a | .put("<a.name>", <a.value})})
<endif>)
%

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
(st).setAttribute("<attrName>",<expr>);
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/ST.stg
No license file was found, but licenses were detected in source scan.

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*/

@Override public function set treeAdaptor(adaptor:TreeAdaptor):void {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g:delegateName()>.treeAdaptor = this.adaptor;}>
}

@Override public function get treeAdaptor():TreeAdaptor {
    return adaptor;
}

@Override public function get tree():Object { return tree; }

/** Add a variable to track rule's return AST */
var root._0:<ASTLabelType> = null;
ruleLabelDefs() ::= <<
  <super.ruleLabelDefs()>
  <[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels, 
    ruleDescriptor.wildcardTreeListLabels]:{it | var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n"> 
  <[ruleDescriptor.tokenListLabels: {it | var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n"> 
  <[ruleDescriptor.allTokenRefsInAltsWithRewrites 
    : {it | var stream_<it>: RewriteRule<rewriteElementType>Stream=new 
    RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n"> 
  <[ruleDescriptor.allRuleRefsInAltsWithRewrites 
    : {it | var stream_<it>: RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n"> 
>>

/** When doing auto AST construction, we must define some variables; 
* These should be turned off if doing rewrites. This must be a "mode" 
* as a rule could have both rewrite and AST within the same alternative 
* block. 
*/
@alt.declarations() ::= <<
  <if(autoAST)>
  <if(outerAlt)>
  <if(!rewriteMode)>
    root_0 = <ASTLabelType>(adaptor.nil());
  </if>
  </if>
  </if>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefBang(....)> <! Track implies no auto AST construction!>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
  </if>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and* 
* to the tracking list stream_ID for use in the rewrite. 
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefTrack(...)> 
  <listLabel(elem=label,...)> 
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefBang(....)>
if backtracking():
    stream_\texttt{<token>}.add(\texttt{<label>});

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
    \texttt{\langle listLabel(elem=\texttt{label},...)\rangle}
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
    \texttt{\langle super.ruleRef(\ldots)\rangle}
    \texttt{\langle if(backtracking()) \texttt{\langle actions.(actionScope).synpredgate\rangle} \texttt{\langle endif\rangle} stream_\texttt{<rule.name>}.add(\texttt{<label>.tree});\rangle}
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
    \texttt{\langle ruleRefTrack(\ldots)\rangle}
    \texttt{\langle listLabel(label, \{<label>.tree\})\rangle}
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
    \texttt{\langle ruleRefRuleRoot(\ldots)\rangle}
    \texttt{\langle if(backtracking()) \texttt{\langle actions.(actionScope).synpredgate\rangle} \texttt{\langle endif\rangle} stream_\texttt{<rule>}.add(\texttt{<label>.tree});\rangle}
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
    \texttt{\langle ruleRefRuleRoot(\ldots)\rangle}
    \texttt{\langle listLabel(label, \{<label>.tree\})\rangle}
>>

// Rewrite
rewriteCode(
    alts, description,
    referencedElementsDeep, // ALL referenced elements to right of ->
    referencedTokenLabels,
    referencedTokenListLabels,
    referencedRuleLabels,
    referencedRuleListLabels,
    referencedWildcardLabels,
    referencedWildcardListLabels,
    rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements: <referencedElementsDeep; separator=" ">
// token labels: <referencedTokenLabels; separator=" ">
// rule labels: <referencedRuleLabels; separator=" ">
// token list labels: <referencedTokenListLabels; separator=" ">
// rule list labels: <referencedRuleListLabels; separator=" ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=" ">
@if(backtracking)
if ( <actions.(actionScope).synpredgate> ) {

@endif
<prevRuleRootRef()>.tree = root_0;
<rewriteCodeLabels>()
root_0 = <ASTLabelType>(adaptor.nil());
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
@if(TREE_PARSER)
</if(rewriteMode))
<prevRuleRootRef()>.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
input.replaceChildren(adaptor.getParent(retval.start),
adaptor.getChildIndex(retval.start),
adaptor.getChildIndex(_last),
retval.tree);

@endif
@endif
<! if parser or tree-parser && rewrite!=true, we need to set result !>
@if(!TREE_PARSER)
<prevRuleRootRef()>.tree = root_0;
#else
@if(!rewriteMode)
<prevRuleRootRef()>.tree = root_0;
@endif
@endif
@if(backtracking)
}
@endif
>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :([it] var stream_<it>:RewriteRule<rewriteElementType>Stream=new
  RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>););>
>
<referencedTokenListLabels
  :([it] var stream_<it>:RewriteRule<rewriteElementType>Stream=new
  RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>););>
>
<referencedWildcardLabels
  :([it] var stream_<it>:RewriteRule<rewriteElementType>Stream=new
  RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>););>
>
<referencedWildcardListLabels
  :([it] var stream_<it>:RewriteRule<rewriteElementType>Stream=new
  RewriteRule<rewriteElementType>Stream(adaptor,"token <it>", list_<it>););>
>
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/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext}; separator="||"> ) {
<alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();

rewriteClosureBlock(alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
<alt>
}
<referencedElements:{el | stream_<el>.reset();

::[it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>);];
    separator="\n"
>
<referencedWildcardListLabels
::[it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",list_<it>);];
    separator="\n"
>
<referencedRuleLabels
::[it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it>",<it>!=null?<it>.tree:null);];
    separator="\n"
>
<referencedRuleListLabels
::[it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"token <it>",list_<it>);];
    separator="\n"
>
>>
rewritePositiveClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= <<
    if ( !(<referencedElements:{el | stream_<el>.hasNext}; separator="||">) ) {
        throw new RewriteEarlyExitException();
    }
    while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
        <alt>
    }
    <referencedElements:{el | stream_<el>.reset();
    }}>>

rewriteAlt(a) ::= <<
    // <a.description>
    <if(a.pred)>
    if (<a.pred>) {
        <a.alt>
    }<
    >
    <else>
    {
        <a.alt>
    }<
    >
    <endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
    // <fileName>:<description>
    {
    var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
    <root:rewriteElement()>}
    <children:rewriteElement()> adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<<

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
    @pregen()<
e.e>
/** Gen ID or ID[args] */
rewriteTokenRef(token, elementIndex, terminalOptions, args) ::= <<
adaptor.addChild(root_<treeLevel>, createRewriteNodeFromElement(...));
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label, elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label, elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label, elementIndex) ::= <<
root_<treeLevel> = ASTLabelType(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));
>>

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token, elementIndex, terminalOptions, args) ::= <<
root_<treeLevel> = ASTLabelType(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>));
>>

rewriteImaginaryTokenRef(args, token, terminalOptions, elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, createImaginaryNode(token, terminalOptions, args));
>>

rewriteImaginaryTokenRefRoot(args, token, terminalOptions, elementIndex) ::= <<
root_<treeLevel> = ASTLabelType(adaptor.becomeRoot(<createImaginaryNode(token, terminalOptions, args)>,
root_<treeLevel>));
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree? This * let's us refer to $rule to mean previous value. I am reusing the * variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>));<\n>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);<\n>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<action>, root_<treeLevel>));<\n>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>

```
new <terminalOptions.node>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
ASTLabelType>(adaptor.create(<tokenType>, <args; separator=", "><if(!args)"<tokenType>"<endif>))
<endif>
>>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)<! must create new node from old !>
adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ActionScript/AST.stg
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
/** Templates for building ASTs during tree parsing.
 *
 * Deal with many combinations. Dimensions are:
 *  Auto build or rewrite
 *  no label, label, list label (label/no-label handled together)
 *  child, root
 *  token, set, rule, wildcard
 *
 *  Each combination has its own template except that label/no label
 *  is combined into tokenRef, ruleRef, ...
 *
 */
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;
>>

/** What to emit when there is no rewrite rule. For auto build
 *  mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
   retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
 *  add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
   _last = (<ASTLabelType>)input.LT(1);
{
   <ASTLabelType> _save_last_<treeLevel> = _last;
   <ASTLabelType> _first_<treeLevel> = null;
   <if(!rewriteMode)>
   root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
   <endif>
   <if(!rewriteMode)>}
>>

/** Templates for building ASTs during tree parsing. */
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 )<endif>
<if(root.el.rule)>
if ( _first_&lt;enclosingTreeLevel&gt;==null ) _first_&lt;enclosingTreeLevel&gt; = &lt;root.el.label&gt;.tree;
#else>
if ( _first_&lt;enclosingTreeLevel&gt;==null ) _first_&lt;enclosingTreeLevel&gt; = &lt;root.el.label&gt;;
<endif>
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
#else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_&lt;enclosingTreeLevel&gt;, root_&lt;treeLevel&gt;);
<endif>
_last = _save_last_&lt;treeLevel&gt;;
} \n
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) \'cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)
    <if(!rewriteMode)>
    <if(backtracking)>if ( state.backtracking==0 ) {<endif>
    <if(terminalOptions.node)>
    &lt;label&gt;_tree = new &lt;terminalOptions.node&gt;(&lt;label&gt;);
    <else>
```java
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}
<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( state.backtracking==0 )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
$listLabel(elem=label,....)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_\last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
$listLabel(elem=label,....)>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_\last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
```
matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
 มกราคม(label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
 if(backtracking)>if ( state.backtracking==0 ) <endif>
 root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
 <if(backtracking)>} <endif>
 >>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,scope) ::= <<
 if(!rewriteMode)>if ( state.backtracking==0 ) <endif>
 adaptor.addChild(root_<treeLevel>, <label>.getTree());
 <else> ! rewrite mode !
 if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
 <endif>
 >>
/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(elem=label+".getTree()"...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>input.LT(1));
  <super.ruleRef(...)>
  <if(!rewriteMode)>
    <if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
    (<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
  <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(elem=label+".getTree()"...)>
>>

/** Streams for token refs are tree nodes now; override to *
*  change nextToken to nextNode. */
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
  <if(terminalOptions.node)>
    new <terminalOptions.node>(stream_<token>.nextNode())
  <else>
    stream_<token>.nextNode()
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
    <if(backtracking)>if ( state.backtracking==0 ) { <ln><endif>
      retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
    <if(backtracking)>}<endif>
  <endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3.5-sources.jar/org/antlr/codegen/templates/Perl5/ASTTreeParser.stg
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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator. */

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;
public void setTreeAdaptor(TreeAdaptor adaptor) {
  <if(grammar.grammarIsRoot)>
  this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
  <else>
  this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
  <endif>
  <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>}
}
public TreeAdaptor getTreeAdaptor() {
  return adaptor;
}
>>

parserCtorBody() ::= <<
createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
new DebugEventSocketProxy(this, port, <if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);
setDebugListener(proxy);
setInputStreamType>(new Debug<InputStreamType>)(input, proxy));
try {
proxy.handshake();
}
catch (IOException ioe) {
reportError(ioe);
}
>>

ctorForRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>

ctorForProfilingRootGrammar.finally() ::=<<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
>>

ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);"

ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
<endif>
>>

rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"

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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/ASTDbg.stg
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```java
asTypeInitMap ::= [
  "int": "0",
  "uint": "0",
  "Number": "0.0",
  "Boolean": "false",
  default: "null" // anything other than an atomic type
]
```

/** The overall file structure of a recognizer; stores methods for rules and cyclic DFAs plus support code. */

```java
outputFile(LEXER, PARSER, TREE_PARSER, actionScope, actions, docComment, recognizer, 
  name, tokens, tokenNames, rules, cyclicDFAs, 
  bitsets, buildTemplate, buildAST, rewriteMode, profile, 
  backtracking, synpreds, memoize, numRules, 
  fileName, ANTLRVersion, generatedTimestamp, trace, 
  scopes, superClass, literals) ::= 
<<
  // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
  package@if(actions.(actionScope).package)> <actions.(actionScope).package><endif> { 
    <actions.(actionScope).header>
    //@imports

    import org.antlr.runtime.*;
    <if(TREE_PARSER)>
```
import org.antlr.runtime.tree.*;
@end

<docComment>
<recognizer>
}
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="Token",
    superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends
<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass
<@end><endif> {
    <tokens:{it |public static const <it.name>:int=<it.type>;}; separator="\n">
    <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)<endif> }>
    <actions.lexer.members>

    // delegates
<grammar.delegates:
    {glpublic var <g:delegateName()>:<g.recognizerName>;}; separator="\n">
    // delegators
<grammar.delegators:
    {glpublic var <g:delegateName()>:<g.recognizerName>;}; separator="\n">
    <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>

    public function <grammar.recognizerName>(<grammar.delegators:{g|<g:delegateName()>:<g.recognizerName>,
    }>,input:CharStream = null, state:RecognizerSharedState = null) {
        super(input, state);
        <cyclicDFAs:cyclicDFACtor()>
        <if(memoize)>
            <if(grammar.grammarIsRoot)>
                this.state.ruleMemo = new Array(<numRules>+1);\n                <! index from 1..n !>
        </end>
    <end>
    <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(<trunc(g.delegators){p|<p:delegateName()>,
        }>,this,
        input, this.state);}; separator="\n">
        <grammar.delegators:
            {g|this.<g:delegateName()>::<g:delegateName>();}; separator="\n”
        <last(grammar.delegators:{g|gParent = <g:delegateName>();}>
    }
    public override function get grammarFileName():String { return "<fileName>"; }

    <if(filterMode)>
        <filteringNextToken()>
    <end>
    <rules; separator="\n\n"
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
public override function nextToken():Token {
  while (true) {
    if ( input.LA(1)==CharStreamConstants.EOF ) {
      return TokenConstants.EOF_TOKEN;
    }
    this.state.token = null;
    this.state.channel = TokenConstants.DEFAULT_CHANNEL;
    this.state.tokenStartCharIndex = input.index;
    this.state.tokenStartCharPositionInLine = input.charPositionInLine;
    this.state.tokenStartLine = input.line;
    this.state.text = null;
    try {
      var m:int = input.mark();
      this.state.backtracking=1; <! means we won't throw slow exception !>
      this.state.failed=false;
      mTokens();
      this.state.backtracking=0;
      <! mTokens backtracks with synpred at backtracking==2
      and we set the synpredgate to allow actions at level 1. !>
      if ( this.state.failed ) {
        input.rewindTo(m);
        input.consume(); <! advance one char and try again !>
      }
      else {
        emit();
        return this.state.token;
      }
    }
    catch (re:RecognitionException) {
      // shouldn't happen in backtracking mode, but...
      reportError(re);
      recover(re);
    }
  }
}>>
public override function memoize(input:IntStream, ruleIndex:int, ruleStartIndex:int):void {
    if (this.state.backtracking>1) super.memoize(input, ruleIndex, ruleStartIndex);
}

public override function alreadyParsedRule(input:IntStream, ruleIndex:int):Boolean {
    if (this.state.backtracking>1) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}

actionGate() ::= "this.state.backtracking==0"

filteringActionGate() ::= "this.state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, inputStreamType, superClass, labelType, members, rewriteElementType, filterMode, ASTLabelType="Object") ::= <<
    public class <grammar.recognizerName> extends <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass><@end><endif> {
        <if(grammar.grammarIsRoot)>
            public static const tokenNames:Array = [
                "<invalid>", "\EOR", "\DOWN", "\UP", <tokenNames; separator=", ">
            ];<\n>
        </if>
        <tokens:{it |public static const <it.name>:int=<it.type>;}; separator="\n">

        // delegates
        <grammar.delegates: {g|public var <g:delegateName()>:<g.recognizerName>();}; separator="\n"} // delegates
        <grammar.delegators: {g|public var <g:delegateName()>:<g.recognizerName>();}; separator="\n"} // delegators
        <last(grammar.delegators):{g|public var gParent:<g.recognizerName>();}>

        <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif> <globalAttributeScope(it)><endif> } @members

        <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
        public function <grammar.recognizerName>(<grammar.delegators:{g|<g:delegateName()>:<g.recognizerName>},
public override function get tokenNames():Array { return 
<grammar.composite.rootGrammar.recognizerName>.tokenNames; } 
public override function get grammarFileName():String { return "<fileName>"; } 

<rules; separator="\n\n"> 
<! generate rule/method definitions for imported rules so they 
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor| 
public function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>):<returnType()> { 
@if(ruleDescriptor.hasReturnValue)>return 
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut 
es:{a|<a.name>}; separator="",">); 
}}; separator="\n"> 
<synpreds:{p | <synpred(p)> }>
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, 
words64=it.bits)}>}
}
>> 

cyclicDFAs:cyclicDFA() <! dump tables for all DFA !>

<grammar.delegators:
{g|<g.delegateName()> = <g:delegateName>();}; separator="\n"> 

<grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName>();}; separator="\n"> 

<last(grammar.delegators):{g|gParent = <g:delegateName>();}> 

@end>
parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="Object", superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, "TokenStream", superClass, labelType, members, "Token", false, ASTLabelType)>>

/** How to generate a tree parser; same as parser except the input
*  stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="TreeParser", members={<actions.treeparser.members>}) ::= <<
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, "TreeNodeStream", superClass, labelType, members, "Node", filterMode, ASTLabelType)>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates.  As they never have return values
*  nor parameters etc..., just give simplest possible method.  Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
public final function <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>):void {
  <ruleLabelDefs()>
  <if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try {
      <block>
    }
    finally {
      traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
  <else>
    <block>
  <endif>
  // $ANTLR end <ruleName>
>>
synpred(name) ::= <<
public final function <name>():Boolean {
    this.state.backtracking++;
    *@start()@
    var start:int = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (re:RecognitionException) {
        trace("impossible: "+re);
    }
    var success:Boolean = !this.state.failed;
    input.rewindTo(start);
    *@stop()@
    this.state.backtracking--;
    this.state.failed=false;
    return success;
}<> 
>>

lexerSynpred(name) ::= <<
<synpred(name)> >>

ruleMemoization(name) ::= <<
@if(memoize)
    if ( this.state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>()) ) { return <ruleReturnValue>(); }
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (this.state.failed) return <ruleReturnValue>();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if (this.state.backtracking>0) {this.state.failed=true; return <ruleReturnValue>();}<endif>
>>

/** How to generate code for a rule.  This includes any return type
*  data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
    <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
    // $ANTLR start <ruleName>
    // <fileName>:<description>
    public final function <ruleName>(<ruleDescriptor.parameterScope:parameterScope()>:):<returnType>() {

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<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>
try {
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><
}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
actions.(actionScope).rulecatch
<else>
catch (re:RecognitionException) {
reportError(re);
recoverStream(input,re);
<@setErrorReturnValue()>
}<
>endif
<endif>
<endif>
<endif>
finally {
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize>
<ruleScopeCleanUp()>
<finally>
<@postamble()>
return <ruleReturnValue>();
}
// $ANTLR end <ruleName>
>>
catch(dec1,action) ::= <<
catch (<e.decl>) {
<e.action>
}
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)>
var retval:<returnType>() = new <returnType>();

<<
retval.start = input.LT(1);

<else>
<ruleDescriptor.returnScope.attributes: { a |
var <a.name>: <a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>
};
<endif>
<if(memoize)
var <ruleDescriptor.name>_StartIndex:int = input.index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: { it | <it>_stack.push(new Object()); }; separator="\n">
<ruleDescriptor.ruleScope: { it | <it.name>_stack.push(new Object()); }; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: { it | <it>_stack.pop(); }; separator="\n">
<ruleDescriptor.ruleScope: { it | <it.name>_stack.pop(); }; separator="\n">
>>

ruleLabelDefs() ::= <<
[ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels, ruleDescriptor.wildcardTreeLabels, ruleDescriptor.wildcardTreeListLabels] :
	{ it | var <it.label.text>: <labelType> = null; }; separator="\n"
>
[ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels, ruleDescriptor.wildcardTreeListLabels] :
	{ it | var list_<it.label.text>: Array = null; }; separator="\n"
>
<ruleDescriptor.ruleLabels: ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels: { ll | var <ll.label.text>: RuleReturnScope = null; }; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
[ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels, ruleDescriptor.ruleLabels] :
	{ it | var <it.label.text>: <labelType> = null; }; separator="\n"
>
<ruleDescriptor.charLabels: { it | var <it.label.text>: int }; separator="\n">
[ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels] :
	{ it | var list_<it.label.text>: Array = null; }; separator="\n"
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start <ruleName>
public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>):void {
   <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
   <ruleScopeSetUp()>
   <ruleDeclarations()>
   try {
      <if(nakedBlock)>
      <ruleMemoization(name=ruleName)>
      <lexerRuleLabelDefs()>
      <ruleDescriptor.actions.init>
      <block>
   </if(nakedBlock)>
   <else>
      var _type:int = <ruleName>;
      var _channel:int = DEFAULT_TOKEN_CHANNEL;
      <ruleMemoization(name=ruleName)>
      <lexerRuleLabelDefs()>
      <ruleDescriptor.actions.init>
      <block>
   }}
*/

ruleCleanUp() ::= <<
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);\n
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( this.state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }\n
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
  * fragment rules.
  */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start <ruleName>
public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>):void {
   <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
   <ruleScopeSetUp()>
   <ruleDeclarations()>
   try {
      <if(nakedBlock)>
      <ruleMemoization(name=ruleName)>
      <lexerRuleLabelDefs()>
      <ruleDescriptor.actions.init>
      <block>
   </if(nakedBlock)>
   <else>
      var _type:int = <ruleName>;
      var _channel:int = DEFAULT_TOKEN_CHANNEL;
      <ruleMemoization(name=ruleName)>
      <lexerRuleLabelDefs()>
      <ruleDescriptor.actions.init>
      <block>
   }}
*/
/** How to generate code for the implicitly-defined lexer grammar rule * that chooses between lexer rules. */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override function mTokens():void {
    <block><n>
}

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    var alt<decisionNumber>:int=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
    switch (alt<decisionNumber>) {
        <alts:{a | <altSwitchCase(i, a)>}>
    }
    <@postbranch()>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    var alt<decisionNumber>:int=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
switch (alt<decisionNumber>) {
    <alts:{a | <altSwitchCase(i, a)>}>}
}

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>:<description>
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
    >>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>:<description>
    <decls>
    <@prealt()>
    <alts>
    <@postalt()>
    >>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    var cnt<decisionNumber>:int=0;
    <decls>
    <@preloop()>
    loop<decisionNumber>:
    do {
        var alt<decisionNumber>:int=<maxAlt>;
        <@predecision()>
        <decision>
        <@postdecision()>
        switch (alt<decisionNumber>) {
        <alts:{a | <altSwitchCase(i, a)>}>}
        default:
        if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
        <ruleBacktrackFailure()>
        throw new EarlyExitException(<decisionNumber>, input);
        <! Need to add support for earlyExitException debug hook !>
    }                 
    cnt<decisionNumber>++;  
} while (true);
<@postloop()>
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= 
<<
// <fileName>:<description>
decls
<@preloop()>
loop<decisionNumber>:
do {
    var alt<decisionNumber>:int=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
        <alts:{a | <altSwitchCase(i, a)>}>
        default : 
            break loop<decisionNumber>;
    }
} while (true);
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum, alt) ::= 
<<
case <altNum> :
    <@prealt()>
    <alt>
    break;<
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements, altNum, description, autoAST, outerAlt, treeLevel, rew) ::= 
<<
// <fileName>:<description>
|
/**< What to emit when there is no rewrite. For auto build *  mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/**< Dump the elements one per line */
element(e) ::= <<
  @prematch()
  <e.el><\n>
>>

/**< match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  @prematch()
  <if(label)><label>=<labelType>(<endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName>_in_<element
Index>)<if(label)>)<endif>; <checkRuleBacktrackFailure()>
>>

/**< ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  @prematch()
  <if(label)><label>=<labelType>(<endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName>_in_<element
Index>)<if(label)>)<endif>; <checkRuleBacktrackFailure()>
>>

/**< match a character */
charRef(char,label) ::= <<
  @prematch()
  <if(label)>
  <label> = input.LA(1);<\n>
  <endif>
  match(<char>); <checkRuleBacktrackFailure()>
>>

/**< match a character range */
charRangeRef(a,b,label) ::= <<
  @prematch()
  <if(label)>

/** For now, sets are interval tests and must be tested inline */
mismatchSet(s,label,elementIndex,terminalOptions,postmatchCode=""') ::= <<
@if(label)
@if(LEXER)
<label>= input.LA(1);<
else
<label>=<labelType>(input.LT(1));<
@endif
if ( <s> ) {
    input.consume();
    <postmatchCode>
@if(!LEXER)
    this.state.errorRecovery=false;
@endif
    <if(!backtracking)>this.state.failed=false;<endif>
} else {
    <ruleBacktrackFailure()>
    <![mismatchedSetException()]
@if(LEXER)
    throw recover(new MismatchedSetException(null,input));<
else
    throw new MismatchedSetException(null,input);
@endif
<! use following code to make it recover inline; remove throw mse;
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_"<ruleName>"<elementIndex>);!
@endif
} </n>
>>

matchRuleBlockSet ::= matchSet

mismatchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
 listarLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
@if(label)
    var <label>Start:int = charIndex;
    mismatchString(<string>); <checkRulebacktrackFailure()>
</label>

/*
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
<label>.line = <label>StartLine<elementIndex>;
<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
matchString(<string>); <checkRuleBacktrackFailure>()\n<endif>
>>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=(labelType)(input.LT(1));\n<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(....)>
<label>(label, label)
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);\n<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<label>(label, label)
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
* 
* GMS: Note: do not use post-decrement operator! ASC produces bad code for exceptions in this case.
* See: https://bugs.adobe.com/jira/browse/ASC-3625
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>(label)<if(scope)><scope.delegateName()>.<endif><rule.name>({args; separator="", "});\n>>
state._fsp = state._fsp - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, label)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<label>.line = <label>StartLine<elementIndex>;
<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
match(EOF); <checkRuleBacktrackFailure()>
var <label>:<labelType> = CommonToken.createFromStream(input, EOF,

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// used for left-recursive rules
recRuleDefArg() ::= "var <recRuleArg()>:int"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
   <root:element()>
   <actionsAfterRoot:element()>
   <if(nullableChildList)>
   if ( input.LA(1)==TokenConstants.DOWN ) {
      matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
      <children:element()>
      matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
   }<else>
   matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
   <children:element()>
   matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
   </if>
   </else>
   matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
   <children:element()>
   matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
   </endif>
>>

/** Every predicate is used as a validating predicate (even when it is
*  also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(pred,description)>)) {
   <ruleBacktrackFailure()>
   throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
   var LA<decisionNumber>_stateNumber:int = input.LA(<k>);
   <edges; separator="|else ">
else {
    \texttt{if(eotPredictsAlt)}
    alt<decisionNumber>=<eotPredictsAlt>;
    \texttt{else}
    \texttt{ruleBacktrackFailure()}
    throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
    \texttt{endif}
}

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
\texttt{dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);\n<edges; separator="\nelse ">
>}

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * 'This is used only in the lexer so that for (a)* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
\texttt{dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);\n<edges; separator="\nelse ">
<if(eotPredictsAlt)
alt<decisionNumber>=<eotPredictsAlt>; \texttt{endif}
\texttt{else}
alt<decisionNumber>=<eotPredictsAlt>;
\texttt{endif}
>}

/** An accept state indicates a unique alternative has been predicted */
\texttt{dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"}

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (labelExpr) <if(predicates)&& (predicates)<endif> ) {
    targetState
}
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator 
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    switch ( input.LA(<k>) ) {
    <edges; separator="\\n">
    default:
    <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
    <else>
    <ruleBacktrackFailure()>
    throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
    <! Need to add hook for noViableAltException !>
    <endif>
    }<\\n>
}<<
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    switch ( input.LA(<k>) ) {
    <edges; separator="\\n">
}<<
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    switch ( input.LA(<k>) ) {
    <edges; separator="\\n"><\\n>
    <if(eotPredictsAlt)>
    default:
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\\n>
    <endif>
}<<
>>

dfaEdgeSwitch(labels, targetState) ::= <<
    <labels:{it | case <it>:}; separator="\\n"><\\n>
}<<
break;
// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
   alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

cyclicDFACtor(dfa) ::= <<
   dfa<dfa.decisionNumber> = new DFA(this, <dfa.decisionNumber>,
      "<dfa.description>",
      DFA<dfa.decisionNumber>_eot, DFA<dfa.decisionNumber>_eof, DFA<dfa.decisionNumber>_min,
      DFA<dfa.decisionNumber>_max, DFA<dfa.decisionNumber>_accept, DFA<dfa.decisionNumber>_special,
      DFA<dfa.decisionNumber>_transition<if(dfa.specialStateSTs)>,
      DFA<dfa.decisionNumber>_specialStateTransition<endif>);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
   private const DFA<dfa.decisionNumber>_eot:Array =
      DFA.unpackEncodedString("<dfa.javaCompressedEOT; wrap=""\n        "">" evolution);  
   private const DFA<dfa.decisionNumber>_eof:Array =
      DFA.unpackEncodedString("<dfa.javaCompressedEOF; wrap=""\n        "">" evolution);  
   private const DFA<dfa.decisionNumber>_min:Array =
      DFA.unpackEncodedString("<dfa.javaCompressedMin; wrap=""\n        "">", true) evolution);  
   private const DFA<dfa.decisionNumber>_max:Array =
      DFA.unpackEncodedString("<dfa.javaCompressedMax; wrap=""\n        "">", true) evolution);  
   private const DFA<dfa.decisionNumber>_accept:Array =
      DFA.unpackEncodedString("<dfa.javaCompressedAccept; wrap=""\n        "">") evolution);  
   private const DFA<dfa.decisionNumber>_special:Array =
      DFA.unpackEncodedString("<dfa.javaCompressedSpecial; wrap=""\n        "">") evolution);  
   private const DFA<dfa.decisionNumber>_transition:Array = [
      <dfa.javaCompressedTransition:{s|DFA.unpackEncodedString("<s; wrap=""\n        "+\n        "">")}; separator="",\n    ];
   <if(dfa.specialStateSTs)>

---

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private function DFA<dfa.decisionNumber>_specialStateTransition(dfa:DFA, s:int, _input:IntStream):int {
<if(LEXER)>
  var input:IntStream = _input;
<endif>
<if(PARSER)>
  var input:TokenStream = TokenStream(_input);
<endif>
<if(TREE_PARSER)>
  var input:TreeNodeStream = TreeNodeStream(_input);
<endif>

  var _s:int = s;
  switch ( s ) {
  <dfa.specialStateSTs:{state | case <i0> : <! compressed special state numbers 0..n-1 !> [state]}; separator="\n">}
</if(backtracking)>
  if (this.state.backtracking>0) {this.state.failed=true; return -1;}</n>
<endif>
  throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input));
}<un>
<endif>

protected var dfa<dfa.decisionNumber>:DFA; // initialized in constructor

/**
 A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
  var LA<decisionNumber>_<stateNumber>:int = input.LA(1);<n>
  <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    var index<decisionNumber>_<stateNumber>:int = input.index;
    input.rewind();<n>
  </if>
  s = -1;
  <edges; separator="\nelse ">
  <if(semPredState)> <! return input cursor to state before we rewound !>
    input.seek(index<decisionNumber>_<stateNumber>);<n>
  </if>
  if ( s>=0 ) return s;
  break;
</if>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>};
>>

/** An edge pointing at end-of-token: essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(<operands; separator="||">)"
notPredicate(pred) ::= "!(<evalPredicate(pred, {})>)"
evalPredicate(pred,description) ::= "(<pred>)"
evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<stateNumber> >= <lowerAsInt> && LA<decisionNumber>_<stateNumber> \=<<upperAsInt>)
%
>
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >=
<lowerAsInt> && input.LA(<k>) \=<<upperAsInt>)"

setTest(ranges) ::= <<
<ranges; separator="||">;
>>

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>._stack:Array = new Array();
</if>
>>
ruleAttributeScope(scope) ::= <<
  <if(scope.attributes)>
  protected var <scope.name> _stack:Array = new Array();
  <endif>
>>

returnStructName() ::= "<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope"

returnType() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <returnStructName()>
  <else>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
>>

/** Generate the Java type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  <returnStructName()>
  <else>
  <if(referencedRule.hasSingleReturnValue)>
  <referencedRule.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
>>

delegateName(d) ::= <<
  <if(d.label)><d.label><else>g<d.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table must be an object, default value is "null". */
initValue(typeName) ::= <<
  <asTypeInitMap.(typeName)>
>>
/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
  var <label.label.text>:<ruleLabelType(referencedRule=label.referencedRule)> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
  * start/stop tokens, tree stuff, attributes, ... Leave a hole for
  * subgroups to stick in members.
  */
returnScope(scope) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  public static class <returnType()> extends <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
    <scope.attributes:{it |public <it.decl>;}; separator="\n"><@ruleReturnMembers()>
  };
  <endif>
>>

parameterScope(scope) ::= <<
  <scope.attributes:{it |<it.name>:<it.type>}; separator=",”>
>>

parameterAttributeRef(attr) ::= "+<attr.name>"

parameterSetAttributeRef(attr,expr) ::= "+<attr.name> =<expr>;"
/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues>)
    (scope!=null?<scope>.values.<attr.name>:<initValue(attr.type)>)
  <else>
    <scope>
  <endif>
>>
returnAttributeRef(ruleDescriptor,attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues>)
    retval.values.<attr.name>
  <else>
    <attr.name>
  <endif>
>>
returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues>)
    retval.values.<attr.name> =<expr>; 
  <else>
    <attr.name> =<expr>; 
  <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID [Sids] or e+=expr [Se] */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.text:"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.type:"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.line:"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.charPositionInLine:"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.channel:"


tokenLabelPropertyRef_index(scope, attr) ::= "(<scope> !=null? <scope>.tokenIndex: 0)"

tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"

tokenLabelPropertyRef_int(scope, attr) ::= "(<scope> !=null? int(<scope>.text): 0)"

ruleLabelPropertyRef_start(scope, attr) ::= "(<scope> !=null? <labelType>(<scope>.start): null)"

ruleLabelPropertyRef_stop(scope, attr) ::= "(<scope> !=null? <labelType>(<scope>.stop): null)"

ruleLabelPropertyRef_tree(scope, attr) ::= "(<scope> !=null? <ASTLabelType>(<scope>.tree): null)"

ruleLabelPropertyRef_text(scope, attr) ::= "<<<if(TREE_PARSER)>
    (<scope> !=null? input.tokenStream.toStringWithRange(
        input.treeAdaptor.getTokenStartIndex(<scope>.start),
        input.treeAdaptor.getTokenStopIndex(<scope>.start)): null)
    <else>
    (<scope> !=null? input.toStringWithTokenRange(<scope>.start, <scope>.stop): null)
    <endif>>"

ruleLabelPropertyRef_st(scope, attr) ::= "(<scope> !=null? <scope>.st: null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope, attr) ::= "(<scope> !=null? <scope>.type: 0)"

lexerRuleLabelPropertyRef_line(scope, attr) ::= "(<scope> !=null? <scope>.lien: 0)"

lexerRuleLabelPropertyRef_pos(scope, attr) ::= "(<scope> !=null? <scope>.charPositionInLine: 0)"

lexerRuleLabelPropertyRef_channel(scope, attr) ::= "(<scope> !=null? <scope>.channel: 0)"

lexerRuleLabelPropertyRef_index(scope, attr) ::= "(<scope> !=null? <scope>.tokenIndex: 0)"

lexerRuleLabelPropertyRef_text(scope, attr) ::= "(<scope> !=null? <scope>.text: null)"

lexerRuleLabelPropertyRef_int(scope, attr) ::= "(<scope> !=null? int(<scope>.text): 0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "<labelType>(retval.start)"
rulePropertyRef_stop(scope, attr) ::= "<labelType>(retval.stop)"
rulePropertyRef_tree(scope, attr) ::= "<ASTLabelType>(retval.tree)"
rulePropertyRef_text(scope, attr) ::= "<<<if(TREE_PARSER)>
    input.tokenStream.toStringWithRange(
        input.treeAdaptor.getTokenStartIndex(retval.start),
        input.treeAdaptor.getTokenStopIndex(retval.start))
    <else>
    input.toStringWithTokenRange(retval.start, input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(charIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) {
    <action>
  }
  <else>
  <action>
  <endif>
  >

/** How to always execute an action even when backtracking */
exefForcedAction(action) ::= "<action>"

// M I S C (properties, etc...
bitset(name, words64) ::= <<
  public static const <name>:BitSet = new BitSet([<words64:{it |<it>};separator=", "];<\n  >

codeFileExtension() ::= ".as"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ActionScript/ActionScript.stg
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*/

/** Templates for building ASTs during normal parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 *   no label, label, list label  (label/no-label handled together)
 *   child, root
 *   token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */
@rule.setErrorReturnValue() ::= <<
/* ASTParser rule.setErrorReturnValue */
retval.tree = (<ASTLabelType> *)[treeAdaptor errorNode:input From:retval.start To:[input LT:-1] Exception:re];
<! System.out.println("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF
/** ID and output=AST */
tokenRef(token, label, elementIndex, terminalOptions) ::= <<
/* ASTParser tokenRef */
<super.tokenRef(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>
[treeAdaptor addChild:<label>_tree toTree:root_0];
@if(backtracking)>}{<endif>
>>

/* ID! and output=AST (same as plain tokenRef) */
/* ASTParser tokenRefBang */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser tokenRefRuleRoot */
<super.tokenRef(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>
[root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_0];
@if(backtracking)>}{<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser tokenRefBangAndListLabel */
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser tokenRefAndListLabel */
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
/* ASTParser tokenRefRuleRootAndListLabel */
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <%
/* ASTParser matchSet */
<super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  [treeAdaptor addChild:<createNodeFromToken(...) toTree:root_0 ];}, ...)>
%>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTParser matchRuleBlockSet */
<matchSet(...)
>>

matchSetBang(s,label,elementIndex,terminalOptions, postmatchCode) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B)[...|C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
/* ASTParser matchSetRuleRoot */
<if(label)>
<label>=(<labelType> *)[input LT:1]; /* matchSetRuleRoot */
<endif>
<super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createNodeFromToken(...) old:root_0];}, ...)>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRef */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
[treeAdaptor addChild:[<label> getTree] toTree:root_0];
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

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```plaintext
/** rule^ */
ruleRefRuleRoot(rule, label, elementIndex, args, scope) ::= <<
/* ASTParser ruleRefRuleRoot */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:[<label> getTree] old:root_0];
>>

/** x+=rule when output=AST */
ruleAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTParser ruleAndListLabel */
<ruleRef(...)>
<listLabel(elem = {[<label> getTree]})...)>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTParser ruleRefBangAndListLabel */
<ruleRefBang(...)>
<listLabel(elem = {[<label> getTree]})...)>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule, label, elementIndex, args, scope) ::= <<
/* ASTParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem = {[<label> getTree]})...)>>

// WILDCARD AST
wildcard(token, label, elementIndex, terminalOptions) ::= <<
/* ASTParser wildcard */
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
   [treeAdaptor addChild:[[treeAdaptor create:<label>] retain] toTree:root_0];
<if(backtracking)>}<endif>
>>

wildcardBang(token, label, elementIndex, terminalOptions) ::= "<super.wildcard(...)>

wildcardRuleRoot(token, label, elementIndex, terminalOptions) ::= <<
/* ASTParser wildcardRuleRoot */
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
   <label>_tree = [[treeAdaptor create:<label>] retain]
   root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_0];
<if(backtracking)>}<endif>
```
createNodeFromToken(label,terminalOptions) ::= <<
/* ASTParser createNodeFromToken */
@if (terminalOptions.node)
  [terminalOptions.node] new<terminalOptions.node>:<label> ] <! new MethodNode(IDLabel) !>
@else
  (<ASTLabelType> *)[treeAdaptor create:<label>] retain]
@endif
>>

// straight from java cleanup ///
ruleCleanUp() ::= <<
/* ASTParser ruleCleanUp */
@super.ruleCleanUp()
@if (backtracking)
  if ( <actions.(actionScope).synpredgate> ) { <ln> </endif>
    retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
    [treeAdaptor setTokenBoundaries:retval.tree From:retval.start To:retval.stopToken];
  @if (backtracking) } </endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/ASTParser.stg
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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
import stringtemplate3
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnInit() ::= <<
self.st = None
>>

@returnScope.ruleReturnMembers() ::= <<
def getTemplate(self):
    return self.st

def toString(self):
    if self.st is not None:
        return self.st.toString()
    return None
__str__ = toString
>>

@genericParser.init() ::= <<
<@super.init()>
self.templateLib = stringtemplate3.StringTemplateGroup(
   '<name>Templates', lexer='angle-bracket'
)
>>

@genericParser.members() ::= <<
<@super.members()>
def setTemplateLib(self, templateLib):
    self.templateLib = templateLib

def getTemplateLib(self):
    return self.templateLib
>>
/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(label, {<label>.st})>
>>

rewriteTemplate(alts) ::= <<
  # TEMPLATE REWRITE
  <if(backtracking)>
  if <actions.(actionScope).synpredgate>:
    <first(alts):rewriteTemplateAltFirst()>
    <rest(alts): {it | el<rewriteTemplateAlt(it)>>}
  <if(rewriteMode)><replaceTextInLine()><endif>
  <else>
    <first(alts):rewriteTemplateAltFirst()>
    <rest(alts): {it | el<rewriteTemplateAlt(it)>>}
  <if(rewriteMode)><replaceTextInLine()><endif>
  <endif>
>>

replaceTextInLine() ::= <<
  <if(TREE_PARSER)>
    self.input.getTokenStream().replace(
      self.input.getTreeAdaptor().getTokenStartIndex(retval.start),
      self.input.getTreeAdaptor().getTokenStopIndex(retval.start),
      retval.st
    )
  <else>
    self.input.replace(
      retval.start.getTokenIndex(),
      self.input.LT(-1).getTokenIndex(),
      retval.st
    )
  <endif>
>>

rewriteTemplateAltFirst(alt) ::= <<
  <if(alt.pred)>
    if <alt.pred>:
      # <alt.description>
      retval.st = <alt.alt>
  <else>
    # <alt.description>
    retval.st = <alt.alt>
  </u>
  <else>
    # <alt.description>
    retval.st = <alt.alt>
  </u>
/** Invoke a template with a set of attribute name/value pairs. 
* Set the value of the rule's template *after* having set 
* the attributes because the rule's template might be used as 
* an attribute to build a bigger template; you get a self-embedded 
* template. */
rewriteExternalTemplate(name, args) ::= <%
    self.templateLib.getInstanceOf("<name>" if(args), attributes={ <args:{a | "<a.name>": <a.value>}; separator=",
    "> } endif )) %>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <%
    self.templateLib.getInstanceOf(<expr> if(args), attributes={ <args:{a | "<a.name>": <a.value>}; separator=",
    "> } endif )) %>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
    stringtemplate3.StringTemplate("<template>", group=self.templateLib if(args), attributes={ <args:{a |
    "<a.name>": <a.value>}; separator=",
    "> } endif )) %>

/** plain -> {foo} action */
rewriteAction(action) ::= <%
    <action>
    %>

/** An action has %st.attrName=expr; or %{st}.attrName=expr */
actionSetAttribute(st, attrName, expr) ::= <<
(st)["<attrName>"] = <expr>
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
stringtemplate3.StringTemplate(<stringExpr>, group=self.templateLib)
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python3/ST.stg
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 */

/** Templates for building ASTs during tree parsing. */
*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<if(!ruleDescriptor.isSynPred)>
<ASTLabelType> _first_0 = default(<ASTLabelType>);
<ASTLabelType> _last = default(<ASTLabelType>);
<endif>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {
<endif>
<if(rewriteMode)>
retval.Tree = (<ASTLabelType>)_first_0;
   retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
<endif>
<if(backtracking)>}
<endif>
<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
{<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = default(<ASTLabelType>);
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<endif>
<root:element()>}
<if(rewriteMode)>
<<
<endif>
<root:element()>>>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string">><endif>);
</else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string">><endif>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>]}<endif>
<else> <![ rewrite mode !]>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.tokenRef(...)>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
tokenRef(...)
<listLabelElem(elem=label,...)>
<else>
<super.tokenRefAndListLabel(...)
<endif>
<endif>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string">><endif>);
</else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string">><endif>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)> </if>
<else>
<super.tokenRefRuleRoot(...)>
<endif>
>>

/** Match ^((label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
tokenRefRuleRoot(...)
</if>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)> </if>
<else> </else>
<super.tokenRefRuleRootAndListLabel(...)>
<endif>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)
<if(!rewriteMode)
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)> </if>
<else> </else>
<super.wildcard(...)>
<endif>
<endif>
<endif>
<endif>
<endif>
<<

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = new <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex

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matchRuleBlockSet(s, label, terminalOptions, elementIndex, postmatchCode, treeLevel="0") ::= <<
  if(!ruleDescriptor.isSynPred)
    matchSet(...)
  else
    super.matchRuleBlockSet(...)
  endif
>>

matchSetBang(s, label, terminalOptions, elementIndex, postmatchCode) ::= <<
  if(!ruleDescriptor.isSynPred)
    _last = (<ASTLabelType>)input.LT(1);
    super.matchSet(...) 
  else
    super.matchSetBang(...)
  endif
>>

matchSetRuleRoot(s, label, terminalOptions, elementIndex, debug) ::= <<
  if(!ruleDescriptor.isSynPred)
    super.matchSet(postmatchCode={
      if(!rewriteMode)
        if(backtracking)if (actions.(actionScope).synpredgate) { endif
        if(terminalOptions.node)
          _tree = new
          <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
        else
          _tree =
          (<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
        endif
      } else
        _tree =
        (<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
      endif
    } });
  else
    super.matchSetBang(...)
  endif
>>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}</endif>
@end
]; ...
>
<else>
<super.matchSetRuleRoot(...)>
<endif>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>.Tree;
<endif>
<else>
<super.ruleRef(...)>
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabelElem(elem={<label>.Tree},...)>)
<else>
<super.ruleRefAndListLabel(...)>
<endif>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule, label, elementIndex, args, scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>
<else>
<super.matchSetRuleRoot(...)>
<endif>
}}
<super.ruleRefRuleRoot(...)>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRefRuleRoot(....)> 
<listLabelElem(elem={[label].Tree},...)>
<else>
<super.ruleRefRuleRootAndListLabel(...)>
<endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(....)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
<else>
<super.ruleRefTrackAndListLabel(...)>
<endif>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrack(...)>
<else>
<super.ruleRefRuleRootTrack(...)>
<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
<else>
<super.ruleRefRuleRootTrackAndListLabel(...)>
<endif>
/** Streams for token refs are tree nodes now; override to
 * change NextToken to NextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif>stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
%>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!ruleDescriptor.isSynPred)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
<endif>

>>

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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp3/ASTTreeParser.stg
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/*
/** Template subgroup to add template rewrite output
 * If debugging, then you'll also get STDbg.stg loaded.
 */

@outputFile.imports() ::= <<
<@super.imports()>
import org.stringtemplate.v4.*;
import java.util.HashMap;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
/* ST returnScope.ruleReturnMembers -- empty */
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.memvars() ::= <<
ST *st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.properties() ::= <<
@property (retain) ST *st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.methodsDecl() ::= <<
- (ST *)getTemplate;
- (NSString *)toString;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.synthesize() ::= <<
@synthesize st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.methods() ::= <<
- (ST *)getTemplate { return st; }
- (NSString *)toString { return st==nil?nil:[st render]; }

@genericParser.members() ::= <<
<@super.members()>
STGroup *templateLib = [STGroup newSTGroup];

- (void)setTemplateLib:(STGroup *)aTemplateLib
{
    self.templateLib = aTemplateLib;
}

- (STGroup *)getTemplateLib
{
    return templateLib;
}
>>

@genericParserHeaderFile.memVars() ::= <<
<@super.memVars()>
/* ST genericParserHeaderFile.memVars -- empty now */
STGroup *templateLib; /* ST -- really a part of STAttrMap */
>>

@genericParserHeaderFile.properties() ::= <<
<@super.properties()>
/* ST genericParser.properties */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
>>

@genericParserHeaderFile.methodsDecl() ::= <<
<@super.methodsDecl()>
/* ST genericParser.methodsDecl */
- init;
- (STGroup *) getTemplateLib;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
@end
>>

@genericParser.synthesize() ::= <<
<@super.synthesize()>
/* ST genericParserImplementation.synthesize */
@synthesize templateLib;
>>

@genericParser.methods() ::= <<
<@super.methods()>
/* ST genericParser.methods */

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- (STGroup *) getTemplateLib
  
  return templateLib;

}

- (void) setTemplateLib:(STGroup *) aTemplateLib
  
  templateLib = aTemplateLib;

}

>>

@genericParser.members() ::= <<
  @super.members()>
STGroup *templateLib = [STGroup newSTGroup];

- (STGroup *) getTemplateLib
  
  return templateLib;

}

- (void) setTemplateLib:(STGroup *) templateLib
  
  this.templateLib = templateLib;

}/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(rule,label,elementIndex,args,scope)>
  <listLabel(label, [ [<label> getTemplate]; ])>

>>

rewriteTemplate(alts) ::= <<
  // TEMPLATE REWRITE
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) { 
    <alts:rewriteTemplateAlt(); separator="else ">
      <if(rewriteMode)><replaceTextInLine()><endif>
    </if(rewriteMode)><replaceTextInLine()><endif>
  } 
  <else>
    <alts:rewriteTemplateAlt(); separator="else ">
      <if(rewriteMode)><replaceTextInLine()><endif>
    <if(rewriteMode)><replaceTextInLine()><endif>
  </if(rewriteMode)><replaceTextInLine()><endif>

>>

replaceTextInLine() ::= <<
**Invoke a template with a set of attribute name/value pairs.**

* Set the value of the rule's template *after* having set
  * the attributes because the rule's template might be used as
  * an attribute to build a bigger template; you get a self-embedded
  * template.

```bash
/*
 rewriteExternalTemplate(name,args) ::= <%
 <if(args)><args:{a | [ ]}> <endif>
 templateLib getInstanceOf:@"<name>"!
 <if(args)><args:{a | add:@"<a.name" value:<a.value>}]> <endif>;
 %>
*/
```

```bash
/* expr is a string expression that says what template to load */
 rewriteIndirectTemplate(expr,args) ::= <%
 <if(args)><args:{a | [ ]}> <endif>
 templateLib getInstanceOf:<expr>!
 <if(args)><args:{a | add:@"<a.name" value:<a.value>}]> <endif>;
 %>
```
/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
<if(args)><args:{a | [ ]}<endif>
[ST newST:templateLib template:"<template>"]
<if(args)><args:{a |  add:@"<a.name>" <a.value>}]><endif>;
%>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
[(<st>) setAttribute:"<attrName>" value:<expr>];
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
[ST newST:templateLib template:<stringExpr>];
>>

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/** How to generate rules derived from left-recursive rules.
 * These rely on recRuleDefArg(), recRuleAltPredicate(), recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
 * templates in main language.stg
 */

group LeftRecursiveRules;

recRuleName(ruleName) ::= "<ruleName>_
recPrimaryName(ruleName) ::= "<ruleName>_primary"

recRuleStart(ruleName, minPrec, userRetvals, userRetvalAssignments) ::= <<
  <recRuleName(...)>[<minPrec>]
  <if(userRetvals)>
  {<userRetvalAssignments; separator="\n">
  
  </if>
  ;
>>

recRule(ruleName, precArgDef, argName, alts, setResultAction, buildAST,
  userRetvals, userRetvalAssignments) ::= <<
  <recRuleName(...)>[<precArgDef>]
  <if(userRetvals)> returns [<userRetvals>]
  : <recRuleName(...)>
  <if(buildAST)>
  {<setResultAction>
  
  </if>
  <if(userRetvals)>
  {<userRetvalAssignments; separator="\n">
  
  </if>
  ( options {backtrack=false;}
  : ( options {backtrack=false;}
  : <alts; separator="\n  | ">
  )
  )
  }
recPrimaryRule(ruleName, alts, userRetvals) ::= <<
  <recPrimaryName(...)><if(userRetvals)> returns [userRetvals]<endif>
  options {backtrack=true;}
    : <alts; separator="\n  | ">
  ;
>>

recRuleAlt(alt, pred) ::= "{pred}?=> <alt>"

recRuleRef(ruleName, arg) ::= "<recRuleName(...)>[arg]"

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*/
/*
New style messages. This file only contains the messages in English, but no
information about which file, line, or column it occurred in.
The location and message ids are taken out of the formats directory.
Kay Roepke
*/
group en_US;

// TOOL ERRORS
// file errors
CANNOT_WRITE_FILE(arg,exception,stackTrace) ::= <<
cannot write file <arg>: <exception>
<stackTrace; separator="\n">
>>
CANNOT_CLOSE_FILE(arg,exception,stackTrace) ::= "cannot close file <arg>: <exception>"
CANNOT_FIND_TOKENS_FILE(arg) ::= "cannot find tokens file <arg>"
ERROR_READING_TOKENS_FILE(arg,exception,stackTrace) ::= <<
problem reading token vocabulary file <arg>: <exception>
<stackTrace; separator="\n">
>>
DIR_NOT_FOUND(arg,exception,stackTrace) ::= "directory not found: <arg>"
OUTPUT_DIR_IS_FILE(arg,exception,stackTrace) ::= "output directory is a file: <arg>"
CANNOT_OPEN_FILE(arg,exception,stackTrace) ::= "cannot find or open file: <arg><if(exception)>; reason:
<exception><endif>"
CIRCULAR_DEPENDENCY() ::= "your grammars contain a circular dependency and cannot be sorted into a valid
build order."
INTERNAL_ERROR(arg,arg2,exception,stackTrace) ::= <<
internal error: <arg> <arg2><if(exception)>: <exception><endif>
<stackTrace; separator="\n">
>>
INTERNAL_WARNING(arg) ::= "internal warning: <arg>"
ERROR_CREATING_ARTIFICIAL_RULE(arg,exception,stackTrace) ::= <<
problems creating lexer rule listing all tokens: <exception>
<stackTrace; separator="\n">
>>
TOKENS_FILE_SYNTAX_ERROR(arg,arg2) ::= "problems parsing token vocabulary file <arg> on line <arg2>"
CANNOT_GEN_DOT_FILE(arg,exception,stackTrace) ::= "cannot write DFA DOT file <arg>: <exception>"
BAD_ACTION_AST_STRUCTURE(exception,stackTrace) ::= "bad internal tree structure for action '<arg>': <exception>"
BAD_AST_STRUCTURE(arg,exception,stackTrace) ::= <<
bad internal tree structure '<arg>': <exception>
<stackTrace; separator="\n">
>>
FILE_AND_GRAMMAR_NAME_DIFFER(arg,arg2) ::= "file <arg2> contains grammar <arg>; names must be identical"
FILENAME_EXTENSION_ERROR(arg) ::= "file <arg> must end in a file extension, normally .g"
// code gen errors
MISSING_CODE_GEN_TEMPLATES(arg) ::=  
"cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GEN_TEMPLATES() ::=  
"cannot find code generation cyclic DFA templates for language <arg>"
CODE_GEN_TEMPLATES_INCOMPLETE(arg) ::=  
"at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGET_GENERATOR(arg,exception,stackTrace) ::=  
"cannot create target <arg> code generator: <exception>"
STRING_TEMPLATE_ERROR(arg,exception,stackTrace) ::=  
"template error: <arg>"
CANNOT.Compute_SAMPLE_INPUT_SEQ() ::=  
"cannot generate a sample input sequence from lookahead DFA"

// grammar interpretation errors
/*
NO_VIABLE_DFA_ALT(arg,arg2) ::=  
"no viable transition from state <arg> on <arg2> while interpreting DFA"
*/

// GRAMMAR ERRORS
SYNTAX_ERROR(arg) ::= "syntax error: <arg>"
RULE_REDEFINITION(arg) ::=  
"rule <arg> redefinition"
LEXER_RULES_NOT_ALLOWED(arg) ::=  
"lexer rule <arg> not allowed in parser"
PARSER_RULES_NOT_ALLOWED(arg) ::=  
"parser rule <arg> not allowed in lexer"
CANNOT_FIND_ATTRIBUTE_NAME_INDECL(arg) ::=  
"cannot find an attribute name in attribute declaration"
NO_TOKEN_DEFINITION(arg) ::=  
"no lexer rule corresponding to token: <arg>"
UNDEFINED_RULE_REF(arg) ::=  
"reference to undefined rule: <arg>"
LITERAL_NOT_ASSOCIATED_WITH_LEXER_RULE(arg) ::=  
"literal has no associated lexer rule: <arg>"
CANNOT_ALIAS_TOKENS_IN_LEXER(arg) ::=  
"literals are illegal in lexer tokens{} section: <arg>"
ATTRIBUTE_REF_NOT_IN_RULE(arg,arg2) ::=  
"reference to attribute outside of a rule: <arg><if(arg2)>.<arg2><endif>"
UNKNOWN_ATTRIBUTE_IN_SCOPE(arg,arg2) ::=  
"unknown attribute for <arg>: <arg2>"
UNKNOWN_ATTRIBUTE_IN_SCOPE(arg,arg2) ::=  
"unknown attribute for rule <arg>: <arg2>"
UNKNOWN_SIMPLE_ATTRIBUTE(arg,arg2) ::=  
"attribute is not a token, parameter, or return value: <arg>"
ISOLATED_RULE_SCOPE(arg) ::=
"missing attribute access on rule scope: <arg>"
INVALID_RULE_PARAMETER_REF(arg,arg2) ::= 
"cannot access rule <arg>’s parameter: <arg2>"
INVALID_RULE_SCOPE_ATTRIBUTE_REF(arg,arg2) ::= 
"cannot access rule <arg>’s dynamically-scoped attribute: <arg2>"
SYMBOL_CONFLICTS_WITH_GLOBAL_SCOPE(arg) ::= 
"symbol <arg> conflicts with global dynamic scope with same name"
WRITE_TO_READONLY_ATTR(arg,arg2,arg3) ::= 
"cannot write to read only attribute: $<arg><if(arg2)>.<arg2><endif>"
LABEL_CONFLICTS_WITH_RULE(arg) ::= 
"label <arg> conflicts with rule with same name"
LABEL_CONFLICTS_WITH_TOKEN(arg) ::= 
"label <arg> conflicts with token with same name"
LABEL_CONFLICTS_WITH_RULE_SCOPE_ATTRIBUTE(arg,arg2) ::= 
"label <arg> conflicts with rule <arg2>’s dynamically-scoped attribute with same name"
LABEL_CONFLICTS_WITH_RULE_ARG_RETVAL(arg,arg2) ::= 
"label <arg> conflicts with rule <arg2>’s return value or parameter with same name"
ATTRIBUTE_CONFLICTS_WITH_RULE(arg,arg2) ::= 
"rule <arg2>’s dynamically-scoped attribute <arg> conflicts with the rule name"
ATTRIBUTE_CONFLICTS_WITH_RULE_ARG_RETVAL(arg,arg2) ::= 
"rule <arg2>’s dynamically-scoped attribute <arg> conflicts with <arg2>’s return value or parameter with same name"
LABEL_TYPE_CONFLICT(arg,arg2) ::= 
"label <arg> type mismatch with previous definition: <arg2>"
ARG_RETVAL_CONFLICT(arg,arg2) ::= 
"rule <arg2>’s argument <arg> conflicts a return value with same name"
NONUNIQUE_REF(arg) ::= 
"<arg> is a non-unique reference"
FORWARD_ELEMENT_REF(arg) ::= 
"illegal forward reference: <arg>"
MISSING_RULE_ARGS(arg) ::= 
"missing parameter(s) on rule reference: <arg>"
RULE_HAS_NO_ARGS(arg) ::= 
"rule <arg> has no defined parameters"
ARGS_ON_TOKEN_REF(arg) ::= 
"token reference <arg> may not have parameters"
ILLEGAL_OPTION(arg) ::= 
"illegal option <arg>"
LIST_LABEL_INVALID_UNLESS_RETVAL_STRUCT(arg) ::= 
"rule ‘+=’ list labels are not allowed w/o output option: <arg>"
UNDEFINED_TOKEN_REF_IN_REWRITE(arg) ::= 
"reference to undefined token in rewrite rule: <arg>"
REWRITE_ELEMENT_NOT_PRESENT_ON_LHS(arg) ::= 
"reference to rewrite element <arg> without reference on left of ->"
UNDEFINED_LABEL_REF_IN_REWRITE(arg) ::= 
"reference to undefined label in rewrite rule: $<arg>"
NO_GRAMMAR_START_RULE (arg) ::= 
"grammar <arg>: no start rule (no rule can obviously be followed by EOF)"
EMPTY_COMPLEMENT(arg) ::= <<
<if(arg)>
set complement ~<arg> is empty
<else>
set complement is empty
<endif>
>>
UNKNOWN_DYNAMIC_SCOPE(arg) ::= "unknown dynamic scope: <arg>"
UNKNOWN_DYNAMIC_SCOPE_ATTRIBUTE(arg,arg2) ::= "unknown dynamically-scoped attribute for scope <arg>: <arg2>"
RULE_REF_AMBIG_WITH_RULE_IN_ALT(arg) ::= "reference $<arg> is ambiguous; rule <arg> is enclosing rule and referenced in the production (assuming enclosing rule)"
ISOLATED_RULE_ATTRIBUTE(arg) ::= "reference to locally-defined rule scope attribute without rule name: <arg>"
INVALID_ACTION_SCOPE(arg,arg2) ::= "unknown or invalid action scope for <arg2> grammar: <arg>"
ACTION_REDEFINITION(arg) ::= "redefinition of <arg> action"
DOUBLE_QUOTES_ILLEGAL(arg) ::= "string literals must use single quotes (such as \begin\): <arg>"
INVALID_TEMPLATE_ACTION(arg) ::= "invalid StringTemplate % shorthand syntax: '<arg>'"
MISSING_ATTRIBUTE_NAME() ::= "missing attribute name on $ reference"
ARG_INIT_VALUES_ILLEGAL(arg) ::= "rule parameters may not have init values: <arg>"
REWRITE_OR_OP_WITH_NO_OUTPUT_OPTION(arg) ::= "<if(arg)>rule <arg> uses <endif>rewrite syntax or operator with no output option; setting output=AST"
AST_OP_WITH_NON_AST_OUTPUT_OPTION(arg) ::= "AST operator with non-AST output option: <arg>"
NO_RULES(arg) ::= "grammar file <arg> has no rules"
MISSING_AST_TYPE_IN_TREE_GRAMMAR(arg) ::= "tree grammar <arg> has no ASTLabelType option"
REWRITE_FOR_MULTI_ELEMENT_ALT(arg) ::= "with rewrite=true, alt <arg> not simple node or obvious tree element; text attribute for rule not guaranteed to be correct"
RULE_INVALID_SET(arg) ::= "Cannot complement rule <arg>; not a simple set or element"
HETERO_ILLEGAL_IN_REWRITE_ALT(arg) ::= "alts with rewrites can't use heterogeneous types left of ->"
NO_SUCH_GRAMMAR_SCOPE(arg,arg2) ::= "reference to undefined grammar in rule reference: <arg>.<arg2>"
NO_SUCH_RULE_IN_SCOPE(arg,arg2) ::= "rule <arg2> is not defined in grammar <arg>"
TOKEN_ALIAS_CONFLICT(arg,arg2) ::= "cannot alias <arg>; string already assigned to <arg2>"
TOKEN_ALIAS_REASSIGNMENT(arg, arg2) ::= "cannot alias <arg>; token name already assigned to <arg2>"

TOKEN_VOCAB_IN_DELEGATE(arg, arg2) ::= "tokenVocab option ignored in imported grammar <arg>"

INVALID_IMPORT(arg, arg2) ::= "<arg.grammarTypeString> grammar <arg.name> cannot import <arg2.grammarTypeString> grammar <arg2.name>"

IMPORTED_TOKENS_RULE_EMPTY(arg, arg2) ::= "no lexer rules contributed to <arg> from imported grammar <arg2>"

IMPORT_NAME_CLASH(arg, arg2) ::= "combined grammar <arg.name> and imported <arg2.grammarTypeString> grammar <arg2.name> both generate <arg2.recognizerName>; import ignored"

AST_OP_IN_ALT_WITH_REWRITE(arg, arg2) ::= "rule <arg> alt <arg2> uses rewrite syntax and also an AST operator"

WILDCARD_AS_ROOT(arg) ::= "Wildcard invalid as root; wildcard can itself be a tree"

CONFLICTING_OPTION_IN_TREE_FILTER(arg, arg2) ::= "option <arg>=<arg2> conflicts with tree grammar filter mode"

ILLEGAL_OPTION_VALUE(arg, arg2) ::= "value '<arg2>' invalid for option <arg>"

ALL_OPS_NEED_SAME_ASSOC(arg) ::= "all operators of alt <alt> of left-recursive rule must have same associativity"

RANGE_OP_ILLEGAL(arg) ::= "the .. range operator isn't allowed in parser rules"

// GRAMMAR WARNINGS

GRAMMAR_NONDETERMINISM(input, conflictingAlts, paths, disabled, hasPredicateBlockedByAction) ::= <<
  <if(paths)>
  Decision can match input such as "<input>" using multiple alternatives:
  <paths:{ it |  alt <it.alt> via NFA path <it.states; separator="",">\n}>  
  <else>
  Decision can match input such as "<input>" using multiple alternatives: <conflictingAlts; separator=" ">  
  <endif>
  <if(disabled)>
  As a result, alternative(s) <disabled; separator=""> were disabled for that input<endif>
  <if(hasPredicateBlockedByAction)>
  Semantic predicates were present but were hidden by actions.<endif>
>>

DANGLING_STATE(danglingAlts, input) ::= <<
  the decision cannot distinguish between alternative(s) <danglingAlts; separator=""> for input such as "<input>"  
>>

UNREACHABLE_ALTS(alts) ::= <<
  The following alternatives can never be matched: <alts; separator="">  
>>

INSUFFICIENT_PREDICATES(upon, altToLocations, hasPredicateBlockedByAction) ::= <<
  Input such as "<upon>" is insufficiently covered with predicates at locations: <altToLocations.keys:{alt|alt <alt>: <altToLocations.(alt):{loc| line <loc.line>:<loc.column> at <loc.text> }; separator="",">}; separator=" 
>>
Semantic predicates were present but were hidden by actions.

DUPLICATE_SET_ENTRY(arg) ::= 
"duplicate token type <arg> when collapsing subrule into set"

ANALYSIS_ABORTED(enclosingRule) ::= <<
ANTLR could not analyze this decision in rule <enclosingRule>; often this is because of recursive rule references visible from the left edge of alternatives. ANTLR will re-analyze the decision with a fixed lookahead of k=1. Consider using "options {k=1;}" for that decision and possibly adding a syntactic predicate.

RECURSION_OVERFLOW(alt,input,targetRules,callSiteStates) ::= <<
Alternative <alt>: after matching input such as <input> decision cannot predict what comes next due to recursion overflow <targetRules,callSiteStates:[t,c]to <t> from <c:[s]<s.enclosingRule.name> ];separator=" "; separator=" and ">

LEFT_RECURSION(targetRules,alt,callSiteStates) ::= <<
Alternative <alt> discovers infinite left-recursion <targetRules,callSiteStates:[t,c]to <t> from <c:[s]<s.enclosingRule> ];separator=" "; separator=" and ">

UNREACHABLE_TOKENS(tokens) ::= <<
The following token definitions can never be matched because prior tokens match the same input: <tokens; separator=" ">

TOKEN_NONDETERMINISM(input,conflictingTokens,paths,disabled,hasPredicateBlockedByAction) ::= <<
Decision can match input such as "<input>" using multiple alternatives:
<paths:{ it | alt <it.alt> via NFA path <it.states; separator=" "> }>
<else>
Multiple token rules can match input such as "<input>": <conflictingTokens; separator=" ">
<endif>
As a result, token(s) <disabled; separator=" "> were disabled for that input.<endif>NONREGULAR_DECISION(ruleName,alts) ::= <<
[fatal] rule <ruleName> has non-LL(*) decision due to recursive rule invocations reachable from alts <alts;
/* 110n for message levels */
warning() ::= "warning"
error() ::= "error"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/templates/messages/languages/en.stg

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*/
/** ANTLR's code generator. */
* Generate recognizers derived from grammars. Language independence
* achieved through the use of STGroup objects. All output
* strings are completely encapsulated in the group files such as Java.stg.
* Some computations are done that are unused by a particular language.
* This generator just computes and sets the values into the templates;
* the templates are free to use or not use the information.
* To make a new code generation target, define X.stg for language X
* by copying from existing Y.stg most closely related to your language;
* e.g., to do CSharp.stg copy Java.stg. The template group file has a
* bunch of templates that are needed by the code generator. You can add
* a new target w/o even recompiling ANTLR itself. The language=X option
* in a grammar file dictates which templates get loaded/used.
*
* Some language like C need both parser files and header files. Java needs
* to have a separate file for the cyclic DFA as ANTLR generates bytecodes
* directly (which cannot be in the generated parser Java file). To facilitate
* this,
*
* cyclic can be in same file, but header, output must be separate. recognizer
* is in output file.
*/

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CodeGenerator.java

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. */

@outputFile.imports() ::= <<
@super.imports()>

@if(!TREE_PARSER>)
<! tree parser would already have imported !>
using Antlr.Runtime.Tree;
@endif>
>>

@genericParser.members() ::= <<
@super.members()>
<parserMembers()>
>>

parserCtorBody() ::= <%
<super.parserCtorBody()>
TreeAdaptor = 
@if(actions.(actionScope).treeAdaptorInitializer>)
<actions.(actionScope).treeAdaptorInitializer>
<else>
new <actions.(actionScope).treeAdaptorType; null="CommonTreeAdaptor">() 
@end>
;
%

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
private <treeAdaptorType()> adaptor;

public <treeAdaptorType()> TreeAdaptor
{
    get
    {
        return adaptor;
    }

    set
    {
        this.adaptor = value;
        <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
    }
}
treeAdaptorType() ::= <<
<actions.(actionScope).treeAdaptorType; null="ITreeAdaptor">
>>

ruleReturnBaseType() ::= <%
Ast<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<ASTLabelType>, <labelType>>
%>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = default(<ASTLabelType>);<
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels>
: {it|<ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);}; separator="\n">
<ruleDescriptor.tokenListLabels:{it|<ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {it|RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.Nil();
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>> ! Track implies no auto AST construction!
/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)
<listLabelElem(elem=label,elemType=labelType,...)> >>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)
<listLabelElem(elem=label,elemType=labelType,...)> >>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)> >>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)> >>

// R e w r i t e
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
<un>

// AST REWRITE

// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
// wildcard labels: <[referencedWildcardLabels, referencedWildcardListLabels]; separator="",">
@if(backtracking)
if ((actions.(actionScope).synpredgate)) {
 <endif>
 <prevRuleRootRef()>.Tree = root_0;
 <rewriteCodeLabels()>
 root_0 = (<ASTLabelType>)adaptor.Nil();
 <alts:rewriteAlt(); separator="else ">
  <! if tree parser and rewrite=true !>
  <if(TREE_PARSER&&rewriteMode)>
  <prevRuleRootRef()>.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
  if (<prevRuleRootRef()>.Tree != null)
  input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start),
  adaptor.GetChildIndex(_last), retval.Tree);
  </if(TREE_PARSER&&rewriteMode)>
  <prevRuleRootRef()>.Tree = root_0;
  </if(!TREE_PARSER||!rewriteMode)>
  <if(!TREE_PARSER||!rewriteMode)>
  <prevRuleRootRef()>.Tree = root_0;
  </if(backtracking)>
 }<endif>

@if(backtracking)
}

>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{it|RewriteRule<rewriteElementType>Stream stream_<it>=new
  RewriteRule<rewriteElementType>Stream(adaptor,"token <it>"",<it>);}>

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/** Generate code for an optional rewrite block; note it uses the deep ref’d element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
      // <fileName>::<description>
      if (!referencedElementsDeep::{el | stream_.HasNext}; separator="||")
      {
        <alt>
      }
      <referencedElementsDeep::{el | stream_.Reset(); <\n> }
>>
rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();<n> >}
>>

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
<<
if (!(<referencedElements:{el | stream_<el>.HasNext}; separator="||">))
{
throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();<n> >}
>>

rewriteAlt(a) ::= <<
// a.description
<if(a.pred)>
if (<a.pred>)
{
<a.alt>
}
<else>
{
<a.alt>
}
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (ASTLabelType)adaptor.Nil();
<root:rewriteElement>()

"root_0 = null;"
<children:rewriteElement()>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
</children:rewriteElement()>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <%
<@pregen()> DebugLocation(<e.line>, <e.pos>);\n</%

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);\n>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());\n>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());\n>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);\n>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);\n>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);\n>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>),
root_<treeLevel>;\n
/** plain -> {foo} action */
rewriteAction(action) ::= ">
root_0 = <action>;<\n
/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= ">
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());\n
rewriteRuleRefRoot(rule) ::= ">
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);\n
rewriteNodeAction(action) ::= ">
adaptor.AddChild(root_<treeLevel>, <action>);\n
rewriteNodeActionRoot(action) ::= ">
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);\n
/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= ">
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());\n
/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= ">
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());\n
/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= ">
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);\n
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= ">
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);\n
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <%
  <if(terminalOptions.node)>
  <! new MethodNode(IDLabel, args) !>
  new <terminalOptions.node>({tokenType}<if(args)>, <args; separator="","><endif>)
  <else>
  (<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator="","><if(!args)"<tokenType>"<endif>)
  <endif>
%

createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
  <if(terminalOptions.node)>
  new <terminalOptions.node>(stream_<token>.NextToken()<if(args)>, <args; separator="","><endif>)
  <else>
  <if(args) <! must create new node from old !>
  adaptor.Create(<token>, <args; separator="","><)
  <else>
  stream_<token>.NextNode()
  <endif>
  <endif>
%

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSHarp2/AST.stg
No license file was found, but licenses were detected in source scan.

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derived from this software without specific prior written permission.
/** Templates for building ASTs during tree parsing. */

* Deal with many combinations. Dimensions are:
*   Auto build or rewrite
*   no label, label, list label (label/no-label handled together)
*   child, root
*   token, set, rule, wildcard
*   
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  var _first_0:<ASTLabelType> = null;
  var _last:<ASTLabelType> = null;
>>

/** What to emit when there is no rewrite rule. For auto build */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  if(rewriteMode)>
    retval.tree = <ASTLabelType>(_first_0);
    if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
      retval.tree = <ASTLabelType>(adaptor.getParent(retval.tree));
  <endif>
  <if(backtracking)>}<endif>
>>
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
   _last = <ASTLabelType>(input.LT(1));
   {
   var _save_last_<treeLevel>:<ASTLabelType> = _last;
   var _first_<treeLevel>:<ASTLabelType> = null;
   <if(!rewriteMode)>
   var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
   <endif>
   <root;element()>
   <if(rewriteMode)>
   <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
   <if(root.el.rule)>
   if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
   <else>
   if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
   <endif>
   <actionsAfterRoot;element()>
   <if(nullableChildList)>
   if ( input.LA(1)==TokenConstants.DOWN ) {
      matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
      <children;element()>
      matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
   }<
   else>
   matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
   <children;element()>
   matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
   <endif>
   <if(!rewriteMode)>
   adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
   <endif>
   _last = _save_last_<treeLevel>;
   }</root>
   >>

   // TOKEN AST STUFF

   /** ID! and output=AST (same as plain tokenRef) `cept add
   * setting of _last
   */
   tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
   _last = <ASTLabelType>(input.LT(1));
   <super.tokenRef(...)>}
   >>
   
   /** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = new <terminalOptions.node>(<label>);
  <endif><\n>
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <else> <! rewrite mode !>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  <endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRef(...)>
  <listLabel(elem=label,....)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = new <terminalOptions.node>(<label>);
  <else>
  <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
  <endif><\n>
  root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
  <if(backtracking)>}<endif>
  <endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,....)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
_last = (ASTLabelType)input.LT(1);
<super.wildcard(...)>
</if(!rewriteMode)>
</if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
</if(backtracking)> }<endif>
</else> <! rewrite mode !>
</if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<<
_last = <ASTLabelType>(input.LT(1));
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><
>
adaptor.addChild(root_<treeLevel>, <label>_tree);
</if(backtracking)><}
</if(!rewriteMode)>
</if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<<
<matchSet(...)> <noRewrite(...)>< ! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<<
_last = <ASTLabelType>(input.LT(1));
<super.matchSet(...)}>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<endif>
<<

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<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif>

root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
<if(backtracking)>}
<endif>

}, ...
)
>
>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRef(...>)
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
  <if(!rewriteMode)>
    adaptor.addChild(root_<treeLevel>, <label>.tree);
  <else> <! rewrite mode !>
    if ( _first_<treeLevel)==null ) _first_<treeLevel> = <label>.tree;
  <endif>
>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...>)
  <listLabel(label, {<label>.tree})>
>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRef(...>)
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
  <ASTLabelType>(adaptor.becomeRoot(<label>.tree, root_<treeLevel>));
  <endif>
>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(label, {<label>.tree})>
>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefTrackAndListLabel(...)
>>

/** ^(rule ...) rewrite */
ruleRefRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
*  change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
<if(terminalOptions.node)
new <terminalOptions.node>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<
<endif>
retval.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
<if(backtracking)>}<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg
No license file was found, but licenses were detected in source scan.

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*/
group Delphi;

csharpTypeInitMap ::= [
  "int": "0",
  "uint": "0",
  "long": "0",
  "ulong": "0",
  "float": "0.0",
  "double": "0.0",
  "bool": "False",
  "byte": "0",
  "sbyte": "0",
  "short": "0",
  "ushort": "0",
  "char": "#0",
  "string": "",
  "String": "",
  default: "nil" // anything other than an atomic type
]
/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
* LEXER (Boolean): should we generate lexer code?
* PARSER (Boolean): should we generate parser code?
* TREE_PARSER (Boolean): should we generate tree parser code?
* actionScope (String): 'lexer', 'parser', 'tree_parser' or custom scope
* actions (HashMap):
* docComment (String): document comment
* recognizer (Object): recognizer class generator
* name (String): name of grammar
* tokens (HashMap<name: String, type: Integer>):
* tokenNames:
* rules:
* cyclicDFAs:
* bitsets:
* buildTemplate (Boolean): should we generate a string template?
* buildAST (Boolean): should we generate an AST?
* rewriteMode (Boolean): are we rewriting nodes?
* profile (Boolean):
* backtracking (Boolean): backtracking mode?
* synpreds (): syntactic predicates
* memoize (Boolean): should we memoize?
* numRules (Integer): number of rules
* fileName (String): fully qualified name of original .g file
* ANTLRVersion (String): ANTLR version in Major.Minor.Build format
* generatedTimestamp (String): date/time when the file is generated
* trace (Boolean): should we trace input/output?
* scopes:
* superClass (String): name of base class, or empty string
* literals:
*/

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer,
          name, tokens, tokenNames, rules, cyclicDFAs,
          bitsets, buildTemplate, buildAST, rewriteMode, profile,
          backtracking, synpreds, memoize, numRules,
          fileName, ANTLRVersion, generatedTimestamp, trace,
          scopes, superClass, literals) ::= <<
unit <name>;

{$HINTS OFF}

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<actions.(actionScope).header>

interface
/*@imports
uses
@end

<actions.(actionScope).usesInterface>
@if(TREE_PARSER)>
Antlr.Runtime.Tree,<\n>
@end>
Antlr.Runtime,
Antlr.Runtime.Collections,
Antlr.Runtime.Tools;

<docComment>
<recognizer>
>>

/** Generates source code for the lexer class
 * grammar (Grammar object)
 */
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
type
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
end;
T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)
strict private
FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
FException: ERecognitionException;
procedure InitializeCyclicDFAs;
<cyclicDFAs:cyclicDFADeclaration()>}
public
const
<tokens:{<it.name> = <it.type>;}; separator="\n"> 
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>}
strict private
<actions.(actionScope).memberDeclarations>
public
// delegates
<grammar.delegates: {g|g.delegateName(): I<superClass>; {<g.recognizerName> }}; separator="\n"> public
// delegators
<grammar.delegates: {g|g.delegateName(): Pointer; {<g.recognizerName> }}; separator="\n"> last(grammar.delegates): {gl|glParent: Pointer; {<g.recognizerName> }}>
protected
{ IBaseRecognizer }
function GetGrammarFileName: String; override;
<if(filterMode)>
  function AlreadyParsedRule(const Input: IIntStream;
  const RuleIndex: Integer): Boolean; override;
procedure Memoize(const Input: IIntStream; const RuleIndex,
  RuleStartIndex: Integer); override;
protected
  { I Lexer }
function NextToken: IToken; override;</n>
<endif>
protected
  { I Lexer }
procedure DoTokens; override;
public
  constructor Create; overload;
  constructor Create(const AInput: ICharStream<grammar.delegators:{g|; const A<g:delegateName()>:
  IBaseRecognizer{<g.recognizerName>}>}); overload;
    constructor Create(const AInput: ICharStream; const AState: IRecognizerSharedState<grammar.delegators:{g|;
    const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}>}); overload;
    <rules: {r | <if(!r.ruleDescriptor.isSynPred)><lexerRuleDeclaration(r)><endif> }>
    <synpreds:{p | <lexerSynpredDeclaration(p)>}; separator="\n">
  end;
implementation
uses
  <grammar.delegates: {g|<g.recognizerName>,}; separator="\n"><grammar.delegators: {g|<g.recognizerName>,}; separator="\n">
  <actions.(actionScope).usesImplementation>
    SysUtils,
    StrUtils,
    Math;
  [<T<grammar.recognizerName> ]
constructor T<grammar.recognizerName>.Create;
begin
  InitializeCyclicDFAs;
end;
constructor T<grammar.recognizerName>.Create(const AInput: ICharStream<grammar.delegators:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}>});
begin
  Create(AInput, nil<grammar.delegators:{g|, A<g:delegateName()>}>);
end;
constructor T<grammar.recognizerName>.Create(const AInput: ICharStream; const AState:
IRecognizerSharedState<grammar.delegators: {g| const A<g:delegateName>()}: IBaseRecognizer{<g.recognizerName> }}>); 
begin 
  inherited Create(AInput, AState); 
  InitializeCyclicDFAs; { TODO: Necessary in Delphi?? Not removed yet. } 
  <if(memoize)> 
  <if(grammar.grammarIsRoot)> 
  State.RuleMemoCount := <numRules>+1;<\n> <! index from 1..n !> 
  </if> 
  </if> 
  <grammar.directDelegates: {g|<g:delegateName()> := T<g.recognizerName>.Create(AInput, State<trunc(g.delegators): {p|, <p:delegateName()> }}>, Self);}; separator="\n"> 
  <grammar.delegators: {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n"> 
  <last(grammar.delegators):{g|gParent := Pointer(A<g:delegateName()>);}> 
  <actions.(actionScope).memberInitializations> 
  end; 
  <actions.(actionScope).memberImplementations> 
  function T<grammar.recognizerName>.GetGrammarFileName: String; 
  begin 
    Result := `fileName`; 
  end; 
  <if(filterMode)> 
  <filteringNextToken()> 
  </if> 
  <rules; separator="\n"> 
  <synpreds:{p | <lexerSynpred(p)>>}> 
  procedure T<grammar.recognizerName>.InitializeCyclicDFAs; 
  begin 
    <cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self@@debugAddition()>);}; separator="\n"> 
    <cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler := DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}>; separator="\n"> 
  end; 
  <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !> 
  end.>> 
  lexerRuleDeclaration(rule) ::= << 
  procedure m<rule.ruleName>(<rule.ruleDescriptor.parameterScope:parameterScope(scope=rule)>);<\n> >> 
  /** A override of Lexer.nextToken() that backtracks over mTokens() looking 
  * for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
*
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
function T<grammar.recognizerName>.NextToken: IToken;
var
M: Integer;
begin
while (True) do
begin
if (Input.LA(1) = Integer(cscEOF)) then
  Exit(TToken.EOF_TOKEN);
State.Token := nil;
State.Channel := TToken.DEFAULT_CHANNEL;
State.TokenStartCharIndex := Input.Index;
State.TokenStartCharPositionInLine := Input.CharPositionInLine;
State.TokenStartLine := Input.Line;
State.Text := ";
try
  M := Input.Mark();
  State.Backtracking := 1; <! means we won't throw slow exception !>
  State.Failed := False;
mTokens();
  State.Backtracking := 0;
<!
  mTokens backtracks with synpred at backtracking==2
  and we set the synpredgate to allow actions at level 1.
!>
  if (State.Failed) then
  begin
    Input.Rewind(M);
    Input.Consume; <! // advance one char and try again !>
  end
else
begin
  Emit;
  Exit(State.Token);
end;
except
on RE: ERecognitionException do
begin
  // shouldn't happen in backtracking mode, but...
  ReportError(RE);
  Recover(RE);
end;
function T<grammar.recognizerName>.AlreadyParsedRule(const Input: IIntStream; const RuleIndex: Integer): Boolean;
begin
if (State.Backtracking > 1) then
  Result := inherited AlreadyParsedRule(Input, RuleIndex)
else
  Result := False;
end;

procedure T<grammar.recognizerName>.Memoize(const Input: IIntStream; const RuleIndex, RuleStartIndex: Integer);
begin
if (State.Backtracking > 1) then
  inherited Memoize(Input, RuleIndex, RuleStartIndex);
end;

filteringActionGate() ::= "((State.Backtracking = 1))"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
           bitsets, inputStreamType, superClass, filterMode,
           ASTLabelType="ANTLRInterface", labelType, members, rewriteElementType) ::= <<
type
  <rules: [r | <genericParserRuleReturnType(rule=r, ruleDescriptor=r.ruleDescriptor)>]>
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
  <rules: [r | <genericParserRuleInterface(rule=r, ruleDescriptor=r.ruleDescriptor)>]>
end;
T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)
<if(grammar.grammarIsRoot>)
public
  const
  TOKEN_NAMES: array [0..<length(tokenNames)>+3] of String = ("\<invalid>",
    \<EOR>",
    \<DOWN>",
    \<UP>",
    <tokenNames; separator="\n">);
<endif>
public
  const
public
// delegates
<grammar.delegates: {g|g<delegateName()>: I<superClass>; {<g.recognizerName>}}; separator="\n"> public
// delegators
<grammar.delegators: {g|g<delegateName()>: Pointer; {<g.recognizerName>}}; separator="\n"> <last(grammar.delegators): {g|gParent: Pointer; {<g.recognizerName>}}>

<scopes:{<if(it.isDynamicGlobalScope)<globalAttributeScopeDeclaration(scope=it)>}<endif>}> <@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public constructor Create(const AInput: <inputStreamType><grammar.delegators:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}}}); overload;
constructor Create(const AInput: <inputStreamType>; const AState: IRecognizerSharedState<grammar.delegators:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}}}); overload;
<@end>
protected
{ IBaseRecognizer }
function GetTokenNames: TStringArray; override;
function GetGrammarFileName: String; override;
strict private <actions.(actionScope).memberDeclarations>
<rules: {r | <genericParserRuleDeclaration(rule=r, ruleDescriptor=r.ruleDescriptor)>}> <! generate rule/method definitions for imported rules so they appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules: {ruleDescriptor| <delegatedRuleDeclaration(ruleDescriptor)>}> <synpreds:{p | <synpredDeclaration(p)>}; separator="\n"> <cyclicDFAs:cyclicDFADeclaration()> strict private FException: ERecognitionException;
FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
procedure InitializeCyclicDFAs;
@if(bitsets) public
class var <bitsets:bitsetDecl(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>})>
public
class procedure InitializeBitsets; static;<\n>
@end
implementation

uses
<grammar.delegates: {g|<g.recognizerName>,}; separator="\n"> <grammar.delegators: {g|<g.recognizerName>,}; separator="\n"> <actions.(actionScope).usesImplementation>
SysUtils,
StrUtils,
Math;

{ T<grammar.recognizerName> }

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>\grammar.delegators:{g|; const A\g:delegateName()>: IBaseRecognizer{<g.recognizerName> } });
begin
Create(AInput, TRecognizerSharedState.Create\grammar.delegators:{g|, A\g:delegateName()}>);
end;

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>; const AState: IRecognizerSharedState\grammar.delegators:{g|; const A\g:delegateName(): IBaseRecognizer{<g.recognizerName> } });
begin
inherited Create(AInput, AState);
<@membersConstructor>
<@end>
<parserCtorBody()>
<grammar.directDelegates:{g|<g:delegateName()> := T<g.recognizerName>.Create(Input, State\trunc(g.delegators):{p|, <p:delegateName()>}, Self);}; separator="\n">
<grammar.indirectDelegates:{g | <g:delegateName()> := <g.delegator:delegateName()>.<g:delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|gParent := Pointer(A\g:delegateName())}>;
<rules: {r | <ruleAttributeScopeInit(scope=r.ruleDescriptor.ruleScope)> }
<scopes: {<if(it.isDynamicGlobalScope)> <globalAttributeScope(scope=it)> <endif> }>
<actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>

<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleImplementation(ruleDescriptor)>}; separator="\n">
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
<cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self);}; separator="\n">
<cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler := DFA<dfa.decisionNumber>._SpecialStateTransition; <endif>}; separator="\n">
end;

<if(bitsets>)
class procedure T<grammar.recognizerName>.InitializeBitsets;
begin


function T<grammar.recognizerName>.GetTokenNames: TStringArray;
var
I: Integer;
begin
SetLength(Result,Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
  Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
end;

function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
Result := '<fileName>';
end;

<rules; separator="\n\n">  
<synpreds:{p | <synpred(p)>}>  
<cyclicDFAs:cyclicDFA()>  <! dump tables for all DFA !>  
<if(bitsets)>  
initialization
  T<grammar.recognizerName>.InitializeBitsets;
<endif>  
end.>>

deleagatedRuleDeclaration(ruleDescriptor) ::= <<  
<if(ruleDescriptor.hasMultipleReturnValues)>  
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):  
I<returnType()>;
<else>  
<if(ruleDescriptor.hasSingleReturnValue)>  
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):  
<returnType()>;
<else>  
procedure <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
<endif>  
<endif>  
>>

deleagatedRuleImplementation(ruleDescriptor) ::= <<  
<if(ruleDescriptor.hasMultipleReturnValues)>  
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): I<returnType()>;\n
<if(ruleDescriptor.hasSingleReturnValue)>
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): <returnType()>;\n<else>
procedure
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);\n<endif>
<endif>
begin
<if(ruleDescriptor.hasReturnValue)>
Result :=
T<ruleDescriptor.grammar.recognizerName>(<ruleDescriptor.grammar:delegateName()>.Implementor).<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator="","">);\nend;
>

parserCtorBody() ::= <<
InitializeCyclicDFAs;
<if(memoize)>
<if(gramm<grammar.delegators: {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">>
State.RuleMemoCount := <length(grammar.allImportedRules)>+1;\n<if(grammar.grammarIsRoot)>
State.RuleMemoCount := <length(grammar.allImportedRules)>+1; \n<! index from 1..n !>
<endif>
<endif>
<grammar.delegators: {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser", members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Token", ...)>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don’t do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
  // $ANTLR start "<ruleName>"
  procedure
  T<grammar.recognizerName>.<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
  :
    var
    Alt: array [0..<grammar.numberOfDecisions>] of Integer;
    <ruleLabelDefVars()>
    begin
      <ruleLabelDefs()>
      if(trace)
        TraceIn('<ruleName>_fragment', <ruleDescriptor.index>);
        try
          <block>
        finally
          TraceOut('<ruleName>_fragment', <ruleDescriptor.index>);
        end;
      else
        <block>
      endif
    end;
  // $ANTLR end "<ruleName>"
>>
synpredDecls(name) ::= <<
  SynPredPointer <name>;<\n
>>
synpred(name) ::= <<
  function T<grammar.recognizerName>.<name>: Boolean;
  var
    Start: Integer;
    Success: Boolean;
  begin
    State.Backtracking := State.Backtracking + 1;
    @@start()>
    Start := Input.Mark;
    try
      <name>_fragment(); // can never throw exception
    except
      on RE: ERrecognitionException do
        WriteLn('Impossible: ' + RE.ToString);
  end;
>>
Success := not State.Failed;
Input.Rewind(Start);
<@stop()>
State.Backtracking := State.Backtracking - 1;
State.Failed := False;
Result := Success;
end;

lexerSynpred(name) ::= <<
<synpred(name)>
>>

lexerSynpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>
synpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>
ruleMemoization(name) ::= <<
@if(memoize)>
if ((State.Backtracking > 0) and AlreadyParsedRule(Input, <ruleDescriptor.index>)) then
Exit(<ruleReturnValue()>);
@endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)><@
if (State.Failed) then Exit(<ruleReturnValue()>);<@>
@endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)><@
if (State.Failed) then
begin
State.Failed := True;
Exit(<ruleReturnValue()>);
end;<@>endif>
>>

genericParserRuleDeclaration(rule, ruleDescriptor) ::= <<
@if(ruleDescriptor.isSynPred)>
</@
@if(ruleDescriptor.isSynPred)>
>>
public
<if(ruleDescriptor.hasMultipleReturnValues)>
  function <rule.ruleName>: I<returnType>();
<else>
  function <rule.ruleName>: <returnType>();
<endif>
</if>
<if(ruleDescriptor.isSynPred)>
  procedure <rule.ruleName>;
<else>
  procedure <rule.ruleName>;<
<endif>
<endif>
<endif>
>>

genericParserRuleInterface(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
</if>
<if(ruleDescriptor.hasMultipleReturnValues)>
  function <rule.ruleName>: I<returnType>();
<else>
  function <rule.ruleName>: <returnType>();
<endif>
</if>
<if(ruleDescriptor.hasSingleReturnValue)>
  procedure <rule.ruleName>;
<else>
  procedure <rule.ruleName>;<
<endif>
<endif>
<endif>
>>

genericParserRuleReturnType(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
  <if(ruleDescriptor.isSynPred)>
  I<returnType>() = interface(I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope)
  end;
<else>
  I<returnType>()
<endif>
<else>
  I<returnType>() = interface(I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope)
end;
<endif>
<endif>
>>

/** How to generate code for a rule. This includes any return type
 *  data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
// $ANTLR start "<ruleName>"
(* <fileName>::<description> *)
<if(ruleDescriptor.hasMultipleReturnValues)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): I<returnType()>;
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): <returnType>();
<else>
procedure T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
<endif>
<endif>

var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal: I<returnType>();
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
RetVal: <returnType>();
<else>
<endif>
<endif>
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleDeclarationVars()>
<ruleLabelDefVars()>
begin
Locals.Initialize;
try
<if(trace)>TraceIn('<ruleName>', <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
<@preamble()>}
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>

try
try
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<@preamble()>}
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>

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<actions.(actionScope).rulecatch>
<else>
except
on RE: ERecognitionException do
begin
ReportError(RE);
Recover(Input,RE);
%@setErrorReturnValue()>
end;
<endif>
<endif>
<endif>
end;
finally
@if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
@memento()>
@ruleScopeCleanUp()>
@finally>
end;
<@postamble()>
finally
Locals.Finalize;
end;
Exit(<ruleReturnValue()>)
end;
$ANTLR end "$<ruleName>"
>>
catch(decl,action) ::= <<
catch (<e.decl>)
{
<e.action>
}
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
RetVal := T<returnType()].Create;
RetVal.Start := Input.LT(1);<
#else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.name> := <if(a.initValue)<<a.initValue><else><initValue(a.type)><endif>; 
}>
@endif>
@if(memoize)>
<ruleDescriptor.name>_StartIndex := Input.Index();
@endif>
>>
ruleDeclarationVars() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.name>: <a.type>; }
</if(memoize)>
<ruleDescriptor.name>_StartIndex: Integer;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>Stack.Push(T<it>Scope.Create);}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>Stack.Push(T<it.name>Scope.Create);}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>Stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>Stack.Pop;}; separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels:{<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels:{list_<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|<ll.label.text> := nil;}; separator="\n">
>>

ruleLabelDefVars() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels:{<it.label.text>: I<labelType>;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels:{list_<it.label.text>: IList<IANTLRInterface>;}; separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDefVar(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|<ll.label.text>: <ruleLabelType(referencedRule=ll.referencedRule)>}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]:{<it.label.text> := nil;}; separator="\n”
>
ruleDescriptor.ruleListLabels
 :{List_<it.label.text> := nil;}; separator="\n"
>
>>

lexerRuleLabelDefDeclarations() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
 :{<it.label.text>: I<labelType>;}; separator="\n" >
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
 :{List_<it.label.text>: IList;}; separator="\n"
>
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
RetVal
<endif>
<else>
<! nil !>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
RetVal.Stop := Input.LT(-1);
<endif>
<endif>
>>
memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (State.Backtracking > 0) then
Memoize(Input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
<endif>
<endif>
<endif>
/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */

lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
<ruleDescriptor.parameterScope>
procedure
T<grammar.recognizerName>.m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
TokenType, Channel: Integer;
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<lexerRuleLabelDefDeclarations()>
begin
Locals.Initialize;
try
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()> 
try
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()> 
<ruleDescriptor.actions.init>
<block>...<\n>
<else>
TokenType := <ruleName>;
Channel := DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()> 
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()> 
State.TokenType := TokenType;
State.Channel := Channel;
<ruleDescriptor.actions.after):execAction()>
<endif>
finally
<if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()> 
memoize() 
end;
finally
Locals.Finalize;
>>
end;
end;
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
*  that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
procedure T<grammar.recognizerName>.mTokens;
var
    Alt: array [0..<grammar.numberOfDecisions>] of Integer;
begin
    <block>
end;

procedure T<grammar.recognizerName>.DoTokens;
begin
    mTokens;
end;
>>

/** SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
    Alt[<decisionNumber>] := <maxAlt>;
<decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
    case Alt[<decisionNumber>] of
        <alts:altSwitchCase()>
    end;
    <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
    Alt[<decisionNumber>] := <maxAlt>;
<decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    case Alt[<decisionNumber>] of
        <alts:altSwitchCase()>
end;
ruleBlockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
(* <fileName>:<description> *)
<decls>
<bracketedClose>()
<alts>
<bracketedClose>()
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
(* <fileName>:<description> *)
<decls>
<bracketedClose>()
<alts>
<bracketedClose>()
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
(* <fileName>:<description> *)
FCnt[decisionNumber] := 0;
<decls>
<bracketedClose>()
while (True) do
begin
Alt[decisionNumber] := <maxAlt>;
<bracketedClose>()
<decision>
<bracketedClose>()
case Alt[decisionNumber] of
<alts:altSwitchCase()>
else
begin
if (FCnt[decisionNumber] >= 1) then
Break;
<ruleBacktrackFailure()>
raise EEarlyExitException.Create(decisionNumber, Input);
<bracketedClose>()
end;
end;
Inc(FCnt[decisionNumber]);
end;
<bracketedClose>()
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  (* <fileName>:<description> *)
  <decls>
  <@preloop()>
  while (True) do
  begin
    Alt[decisionNumber] := <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    case Alt[decisionNumber] of
      <alts:altSwitchCase()>
      else
        Break;
    end;
    end;
    <@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
  <i>:
  <@prealt()>
  <it><
  >>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  (* <fileName>:<description> *)
  begin
```csharp
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
end;
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
@if(label)<label> := <endif>Match(Input, <token>, FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label)> as I<labelType><endif>;<
><checkRuleBacktrackFailure()>>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,..)>>
>>

listLabel(label,elem) ::= <<
if (list_<label> = nil) then list_<label> := TList<IANTLRInterface>.Create;
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
@if(label)
<label> := Input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
```
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
  if(label)\
  label := Input.LA(1);\n
  MatchRange(<a>, <b>); <checkRuleBacktrackFailure()>
  >>

/** Match a string literal */
matchRuleBlockSet ::= matchSet
matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <matchSet(...)>
  <listLabel(elem=label,...)>
  >>
State.FollowingStackPointer := State.FollowingStackPointer - 1;
<checkRuleBacktrackFailure()>
>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>;
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex - 1);
<else>
(label) := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex - 1);
<endif>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** EOF in the lexer */
lexerMatchEOF(label) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
Locals['<label>'] := TCommonToken.Create(Input, EOF, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>
// F i x e d  D F A  (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
  <edges; separator="\nelse ">
  else begin
    <if(eotPredictsAlt)>
      Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
    <else>
      <ruleBacktrackFailure()>
      raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
    <endif>
  end;
  >>

  /* Same as a normal DFA state except that we don't examine lookahead

  */
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/

dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
<edges; separator="nelse ">;
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/

dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
<edges; separator="nelse ">;
<if(eotPredictsAlt)>
<if(!edges)>
Alt[<decisionNumber>] := <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
begin
Alt[<decisionNumber>] := <eotPredictsAlt>;
end;
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "Alt[<decisionNumber>] := <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
begin
<targetState>
end <! no ; here !>
>>

// F i x e d  D F A  (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::=

Alt[<decisionNumber>] := FDFA<decisionNumber>.Predict(Input);
/* Dump DFA tables. */
cyclicDFADeclaration(dfa) ::= <<
strict protected
type
  TDFA<dfa.decisionNumber> = class(TDFA)
protected
  { IDFA }
function Description: String; override;
public
  constructor Create(const ARecognizer: IBaseRecognizer);
end;
var
  FDFA<dfa.decisionNumber>: IDFA;
<if(dfa.specialStateSTs)>
strict protected
function DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
  const AInput: IIIntStream): Integer;<endif>
>>
cyclicDFA(dfa) ::= <<
{ T<grammar.recognizerName>.TDFA<dfa.decisionNumber> }
constructor T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Create(const ARecognizer:
  IBaseRecognizer);
const
  DFA<dfa.decisionNumber>_EOT = '<dfa.javaCompressedEOT; wrap="\n ">
  DFA<dfa.decisionNumber>_EOF = '<dfa.javaCompressedEOF; wrap="\n ">
  DFA<dfa.decisionNumber>_MIN = '<dfa.javaCompressedMin; wrap="\n ">
  DFA<dfa.decisionNumber>_MAX = '<dfa.javaCompressedMax; wrap="\n ">
  DFA<dfa.decisionNumber>_ACCEPT = '<dfa.javaCompressedAccept; wrap="\n ">
  DFA<dfa.decisionNumber>_SPECIAL = '<dfa.javaCompressedSpecial; wrap="\n ">
  DFA<dfa.decisionNumber>_TRANSITION: array [0..<length(dfa.javaCompressedTransition)>-1] of String = ( <dfa.javaCompressedTransition:{s|'<s; wrap="\n">'}; separator="\n">);
begin
  inherited Create;
  Recognizer := ARecognizer;
  DecisionNumber := <dfa.decisionNumber>;
  EOT := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOT);
  EOF := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOF);
  Min := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MIN);
  Max := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MAX);
  Accept := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_ACCEPT);
  Special := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_SPECIAL);
  Transition := TDFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_TRANSITION);
end;
function T<grammar.recognizerName>.T DFA<dfa.decisionNumber>.Description: String;
begin
    Result := '<dfa.description>'
end;

<if(dfa.specialStateSTs)>
function T<grammar.recognizerName>.DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
    const AInput: II ntStream): Integer;
var
Locals: TLocalStorage;
<if(LEXER)>
Input: II ntStream;
<endif>
<if(PARSER)>
Input: ITokenStream;
<endif>
<if(TREE_PARSER)>
Input: ITreeNodeStream;
<endif>
_S: Integer;
NVAE: ENoViableAltException;
begin
    Result := -1;
    Locals.Initialize;
    try
       <if(LEXER)>
       Input := AInput;
       <endif>
       <if(PARSER)>
       Input := AInput as ITokenStream;
       <endif>
       <if(TREE_PARSER)>
       Input := AInput as ITreeNodeStream;
       <endif>
       _S := S;
       case S of
           <dfa.specialStateSTs:{state | <i0>: begin<! compressed special state numbers 0..n-1 !>
           <state> <\n>           end; separator="\n">
       end;
       <if(backtracking)>
           if (State.Backtracking > 0) then
           begin
           State.Failed := True;
           Exit(-1);
           end;
           <endif>
       NVAE := ENoViableAltException.Create(DFA.Description, <dfa.decisionNumber>, _S, Input):
DFA.Error(NVAE);
raise NVAE;
finally
  Locals.Finalize;
end;
end;<
>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
  FLA[<decisionNumber>,<stateNumber>] := Input.LA(1);<
  <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    Locals.AsInteger['index<decisionNumber>_<stateNumber>'] := Input.Index;
    Input.Rewind;<
  <endif>
  S := -1;
  <edges; separator="\nelse ";>
  <if(semPredState)> <! return input cursor to state before we rewound !>
    Input.Seek(Locals.AsInteger['index<decisionNumber>_<stateNumber>']);<
  <endif>
  if (S >= 0) then
    Exit(S);
  >>
/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
  if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
    S := <targetStateNumber>
  >>
/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
  S := <targetStateNumber>;<
  >>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "((operands:{o|(<o>)}; separator=" or ")")"
notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "FLA[<decisionNumber>,<stateNumber>] = <atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "Input.LA(<k>) = <atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
  ((FLA[<decisionNumber>,<stateNumber>] \>= <lowerAsInt>) and (FLA[<decisionNumber>,<stateNumber>] \=<
    <upperAsInt>))
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(Input.LA(<k>) \>=
  <lowerAsInt>) and (Input.LA(<k>) \=< <upperAsInt>)"

setTest(ranges) ::= "<ranges; separator="\"\" or (\")""

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
  <scope.name>Stack := TStackList\<I<scope.name>Scope\>.Create;
  <endif>
  
  
  globalAttributeScopeDeclaration(scope) ::= <<
    <if(scope.attributes)>
    strict protected
type
      I<scope.name>Scope = interface(IANTLRObject)
    end;
    T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
    protected
      <scope.attributes:{<it.name>: <it.type>;}; separator="\n"> end;
    strict protected
    <scope.name>Stack: IStackList\<I<scope.name>Scope\>;
    <endif>
  
  ruleAttributeScopeDeclaration(scope) ::= <<
    <if(scope.attributes)>

  
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strict protected
type
I<scope.name>Scope = interface(IANTLRObject)
end;
T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
protected
<scope.attributes:{<it.name>: <it.type>;}; separator="\n">
end;
strict protected
<scope.name>Stack: IStackList<I<scope.name>Scope>;
<endif>
>>

ruleAttributeScope(scope) ::= <<
<! protected Stack <scope.name>Stack = new Stack();
>!>
>>

ruleAttributeScopeInit(scope) ::= <<
<if(scope)>
<scope.name>Stack := TStackList<I<scope.name>Scope>.Create;
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
ruleDescriptor:returnStructName()
<! I<TREE_PARSER>Tree<else>Parser<endif>RuleReturnScope !>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
ruleDescriptor.singleValueReturnType
<else>
<! Pointer/void !>
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
* values.
*/
oruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
I<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType
<else>
<! Pointer/void !>
<endif>
<endif>
>>
void
delegateName() ::= <<
<if(it.label)>it.label</else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initWithValue(typeName) ::= <<
<sharpTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> := <initWithValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;\n>
>>

ruleLabelDefVar(label) ::= <<
<label.label.text>: <ruleLabelType(referencedRule=label.referencedRule)>;
>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{ T<ruleDescriptor:returnStructName()> }
@ruleReturnMembers()
@endruleReturnMembers()
@end

returnScopeDeclaration(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public
type
T<ruleDescriptor:returnStructName()> =
class(T<if(TREE_PARSER)Tree<else>Parser<endif>RuleReturnScope, I<ruleDescriptor:returnStructName()>)
@ruleReturnMembers()
@end
<endif>
** $x$ is either global scope or $x$ is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like \{\$function.size()>0 \&\& \$function::name.equals("foo")\}? 
*/
isolatedDynamicScopeRef(scope) ::= "<scope>Stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMoreReturnValues)>
    (IfThen(Assigned(<scope>),Def(<scope>).<attr.name>,<initValue(attr.type)>))
  <else>
    <scope>
  </endif>
>>
returnAttributeRef(ruleDescriptor, attr) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
RetVal.<attr.name>
@else
<attr.name>
@endif
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
RetVal.<attr.name> := <expr>;
@else
<attr.name> := <expr>;
@endif
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Ids} or e+=expr {Se} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope, attr) ::= "(Def(<scope>).Text)"
tokenLabelPropertyRef_type(scope, attr) ::= "(Def(<scope>).TokenType)"
tokenLabelPropertyRef_line(scope, attr) ::= "(Def(<scope>).Line)"
tokenLabelPropertyRef_pos(scope, attr) ::= "(Def(<scope>).CharPositionInLine)"
tokenLabelPropertyRef_index(scope, attr) ::= "(Def(<scope>).TokenIndex)"
tokenLabelPropertyRef_channel(scope, attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope, attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

ruleLabelPropertyRef_start(scope, attr) ::= "(IfThen(Assigned(<scope>), Def(<scope>).Start, nil) as I<labelType>)"
ruleLabelPropertyRef_stop(scope, attr) ::= "(Def(<scope>).Stop as I<labelType>)"
ruleLabelPropertyRef_tree(scope, attr) ::= "(Def(<scope>).Tree as I<ASTLabelType>)"
ruleLabelPropertyRef_text(scope, attr) ::= "<scope>_tree"

@if(TREE_PARSER)
IfThen(Assigned(<scope>), Input.TokenStream.ToString(
   Input.TreeAdaptor.GetTokenStartIndex(Def(<scope>).Start),
   Input.TreeAdaptor.GetTokenStopIndex(Def(<scope>).Start), "")
@else
IfThen(Assigned(<scope>), Input.ToString(
   (Def(<scope>).Start) as IToken,(Def(<scope>).Stop) as IToken), "")
@endif
>>
**Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((Def(<scope>).TokenType)
 lexerRuleLabelPropertyRef_line(scope,attr) ::= "((Def(<scope>).Line)"
 lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((IfThen(Assigned(<scope>),Def(<scope>).CharPositionInLine,-1)))"
 lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((Def(<scope>).Channel)"
 lexerRuleLabelPropertyRef_index(scope,attr) ::= "((Def(<scope>).TokenIndex)"
 lexerRuleLabelPropertyRef_int(scope,attr) ::= "((StrToIntDef(Def(<scope>).Text))"
 lexerRuleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((RetVal.Start as I<labelType>)"
rulePropertyRef_stop(scope,attr) ::= "((RetVal.Stop as I<labelType>)"
rulePropertyRef_tree(scope,attr) ::= "((RetVal.Tree as I<ASTLabelType>)"
rulePropertyRef_text(scope,attr) ::= "((if(TREE_PARSER)"
     Input.TokenStream.ToString(
         Input.TreeAdaptor.GetTokenStartIndex(RetVal.Start),
         Input.TreeAdaptor.GetTokenStopIndex(RetVal.Start))
     <else>"
     Input.ToString(RetVal.Start as IToken,Input.LT(-1))
     <endif>)
>>
rulePropertyRef_st(scope,attr) ::= "((RetVal.ST)"

lexerRulePropertyRef_text(scope,attr) ::= "((Text)"
lexerRulePropertyRef_type(scope,attr) ::= "((TokenType)"
lexerRulePropertyRef_line(scope,attr) ::= "((State.TokenStartLine)"
lexerRulePropertyRef_pos(scope,attr) ::= "((State.TokenStartCharPositionInLine)"
lexerRulePropertyRef_index(scope,attr) ::= ""-1" // undefined token index in lexer"
lexerRulePropertyRef_channel(scope,attr) ::= "((Channel)"
lexerRulePropertyRef_start(scope,attr) ::= "((State.TokenStartCharIndex)"
lexerRulePropertyRef_stop(scope,attr) ::= "((CharIndex-1))"
lexerRulePropertyRef_int(scope,attr) ::= "((StrToIntDef(Def(<scope>).Text))"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "((RetVal.Tree := <expr>;)"
ruleSetPropertyRef_st(scope,attr,expr) ::= "((RetVal.ST := <expr>;)"

/** How to execute an action (only when not backtracking) */
exeAction(action) ::= <<
  <if(backtracking)>
  <if(actions.(actionScope).synpredgate)>
  </ifactions.(actionScope).synpredgate>
</if(backtracking)>
</if(backtracking)>
if (<actions.(actionScope).synpredgate>) then
begin
  <action>
end;
<else>
if (State.Backtracking = 0) then
begin
  <action>
end;</n>
<endif>
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
  <name> := TBitSet.Create([<words64:{<it>};separator=","};<
>>

bitsetDecl(name) ::= <<
  <name>: IBitSet;<
>>

codeFileExtension() ::= ".pas"

true() ::= "True"
false() ::= "False"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Delphi/Delphi.stg
No license file was found, but licenses were detected in source scan.

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  * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
  * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
  * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

@outputFile.imports() ::= <<
  @super.imports()
  <if(!TREE_PARSER)>
    <! tree parser would already have imported !>
    using Antlr.Runtime.Tree;
  </endif>
  >>

@genericParser.members() ::= <<
  @super.members()
  <parserMembers()>
  >>

parserCtorBody() ::= <<
  <super.parserCtorBody()>
  <treeAdaptorType()> treeAdaptor = default(<treeAdaptorType()>);
  CreateTreeAdaptor(ref treeAdaptor);
  TreeAdaptor = treeAdaptor@if(!actions.(actionScope).treeAdaptorType)> ?? new CommonTreeAdaptor<endif>;
  >>

  /** Add an adaptor property that knows how to build trees */
  parserMembers() ::= <<
  // Implement this function in your helper file to use a custom tree adaptor

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partial void CreateTreeAdaptor(ref <treeAdaptorType()> adaptor);

private <treeAdaptorType()> adaptor;

public <treeAdaptorType()> TreeAdaptor
{
    get
    {
        return adaptor;
    }

    set
    {
        this.adaptor = value;
        <grammar.directDelegates:{g|<g:delegateName>().TreeAdaptor = this.adaptor;}>
    }
}

<<
treeAdaptorType() ::= <<
<actions.(actionScope).treeAdaptorType; null="ITreeAdaptor">
>>

ruleReturnBaseType() ::= <%
Ast<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<ASTLabelType>, <labelType>>
%>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = default(<ASTLabelType>);
>>

ruleLabelDefs(ruleDescriptor, labelType, ASTLabelType, rewriteElementType) ::= <%
<super.ruleLabelDefs(...)>
<if(!ruleDescriptor.isSynPred)>
<ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]:{it|<
<ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);}>;
<ruleDescriptor.tokenListLabels: {it|<
<ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);}>;
<ruleDescriptor.allTokenRefsInAltsWithRewrites:
: {it|<RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}>;
<ruleDescriptor.allRuleRefsInAltsWithRewrites:
: {it|<RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}>;
<endif>
%>

/** When doing auto AST construction, we must define some variables;
These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST & outerAlt & !rewriteMode & !ruleDescriptor.isSynPred)>
root_0 = (<ASTLabelType>)adaptor.Nil();
@endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
@if(backtracking)>if (<actions.(actionScope).synpredgate) <endif>stream_<token>.Add(<label>);
@endif>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)> <listLabelElem(elem=label,elemType=labelType,...)>>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <if(backtracking)>if (<actions.(actionScope).synpredgate) <endif>stream_<token>.Add(<label>);
@endif>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)> <listLabelElem(elem=label,elemType=labelType,...)>>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,scope,arity) ::= <<
<superruleRef(...)>
@if(backtracking)>if (<actions.(actionScope).synpredgate) <endif>stream_<rule.name>.Add(<label>.Tree);
@endif>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,scope,arity) ::= <<
<ruleRefTrack(...)>
<listLabelElem(elem=<label>.Tree,elemType=ASTLabelType,...)>>
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...>)
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabelElem(elem=<label>.Tree,elemType=ASTLabelType,...)>
>>

// Rewrite
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<iif(TREE_PARSER&&rewriteMode)>
<prevRuleRootRef()>.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
if (<prevRuleRootRef()>.Tree != null)
input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start),
adaptor.GetChildIndex(_last), retval.Tree);
</iif>
</rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<iif(TREE_PARSER&&rewriteMode)>
<prevRuleRootRef()>.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
if (<prevRuleRootRef()>.Tree != null)
input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start),
adaptor.GetChildIndex(_last), retval.Tree);
</end>
rewriteOptionalBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
)
description) ::= <<
// <fileName>:<description>
if (<referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||">)
{
<alt>
}
<referencedElementsDeep:{el | stream_<el>.Reset();\n}> >>

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();\n}> >>

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
if (!(<referencedElements:{el | stream_<el>.HasNext}; separator="||">))
{
throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();\n}> >>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
<a.alt>
}

/** For empty rewrites: "r : ... -> ;" */  
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<  
// <fileName>:<description>  
{  
ASTLabelType root_<treeLevel> = (ASTLabelType)adaptor.Nil();  
root:rewriteElement()  
<children:rewriteElement()>  
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);  
} <<
>>  
rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <@
DebugLocation(<e.line>, <e.pos>);<
<e.el>
%>

/** Gen ID or ID[args] */  
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<  
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<
>>  

/** Gen $label ... where defined via label=ID */  
rewriteTokenLabelRef(label,elementIndex) ::= <<  
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<
>>  

/** Gen $label ... where defined via label+=ID */  
rewriteTokenListLabelRef(label,elementIndex) ::= <<  
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<
>>  

/** Gen ^(label ...) */  
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<  
root_<treeLevel> = (ASTLabelType)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<
>>
/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot := rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[...]) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);\n>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);\n>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>),
root_<treeLevel>);\n>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;\n>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());\n>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);\n>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);\n>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);\n>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adapter.AddChild(root_<treeLevel>, stream_<label>.NextTree());

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
  root_<treeLevel> = (ASTLabelType)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
  root_<treeLevel> = (ASTLabelType)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <%
  <if(terminalOptions.node)>
  ! new MethodNode(IDLabel, args) !
  new <terminalOptions.node>({tokenType}<if(args), <args; separator=", "><endif>)
  <else>
  (ASTLabelType)adaptor.Create({tokenType}, <args; separator=", "><if(!args)>{tokenType}<endif>)
  <endif>
%>

cREATEWRIteNodeFromElement(token,terminalOptions,args) ::= <%
  <if(terminalOptions.node)
  new <terminalOptions.node>(stream_<token>.NextToken()<if(args), <args; separator=", "><endif>)
  <else>
  <if(args)>
  ! must create new node from old !
  adaptor.Create(<token>, <args; separator=", ">)
  <else>
  stream_<token>.NextNode()
  <endif>
%>

Found in path(s):
  * /opt/cola/permits/1001035969_1646171611.67/0/antlr-3.5-sources-jar/org/antlr/codegen/templates/CSharp3/AST.stg
No license file was found, but licenses were detected in source scan.
/*
[The "BSD license"]
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/*
*  Template group file for the Objective C code generator.
*  Heavily based on Java.stg
*
*  Written by Kay Roepke <kroepke(at)classdump.org>
*  Modified by Alan Condit <acondit(at)ipns.com>
*
*  This file is part of ANTLR and subject to the same license as ANTLR itself.
*/

objcTypeInitMap ::= [
    "int"     : "0",    // Integers   start out being 0
    "long"    : "0",    // Longs      start out being 0
    "float"   : "0.0",  // Floats     start out being 0
    "double"  : "0.0",  // Doubles    start out being 0
    "BOOL"    : "NO",   // Booleans   start out being Antlr ObjC for false
    "byte"    : "0",    // Bytes      start out being 0
    "short"   : "0",    // Shorts     start out being 0
    "char"    : "0",    // Chars      start out being 0
    "id"      : "nil",  // ids        start out being nil
]
default : "nil"      // anything other than an atomic type

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
    "True": "true",
    "False": "false",
    "true": "YES",
    "false": "NO",
    default: "NO"
]

className() ::= "<name><!<if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!>">
leadIn(type) ::= <<

/** 
* This <type> file was generated by $ANTLR version <ANTLRVersion> 
* 
* - From the grammar source file : <fileName> 
* - On : <generatedTimestamp> 
*<if(LEXER)>
* - for the lexer : <name>Lexer 
*<endif>
*<if(PARSER)>
* - for the parser : <name>Parser 
*<endif>
*<if(TREE_PARSER)>
* - for the tree parser : <name>TreeParser 
*<endif>
* 
* Editing it, at least manually, is not wise.
* 
* ObjC language generator and runtime by Alan Condit, acondit|hereisanat|ipns|dotgoeshere|com.
* 
* >>

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile( LEXER,
        PARSER,
        TREE_PARSER,
        actionScope,
        actions,
        docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
) ::= <<
<leadIn("OBJC source")>
*/
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<! <if(actions.(actionScope).header)>
/* =============================================================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action.*/
<endif> !>

/* ----------------------------------------- */
<docComment>
<if(literals)>

/* ----------------------------------------- */
<actions.(actionScope).postinclude>

/* ----------------------------------------- */
<actions.(actionScope).header>
/* End of Header action.*/
<endif> !>

/* ----------------------------------------- */
<actions.(actionScope).include>
/* Include the ANTLR3 generated header file.*/
/#import "<name>Lexer<!if(TREE_PARSER)>TreeParser<!endif>!>.h"</actions.(actionScope).postinclude>
/* ----------------------------------------- */

<docComment>

<if(literals)>
/** String literals used by <name> that we must do things like MATCHS() with.
 * C will normally just lay down 8 bit characters, and you can use L"xxx" to
 * get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
 * we perform this little trick of defining the literals as arrays of UINT32
 * and passing in the address of these.
 */

<literals:{it | static ANTLR3_UCHAR lit_<i>[] = <it>;}; separator="\n">

</literals>

<endif>

/* ============================================================================= */
/* ============================================================================= */
* Start of recognizer
*/

<recognizer>

headerFileExtension() ::= ".h"

headerFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::= <<

<<
lexerHeaderFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memoize,
umRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass="Lexer"
) ::= <<

<if(actions.(actionScope).header)>
/* ===================================================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action. */
<endif>
/* Start cyclicDFAInterface */
cyclicDFAs:cyclicDFAInterface()>
#pragma mark Rule return scopes Interface start
rules:{rule |
<rulè.ruleDescriptor:{ruleDescriptor |<returnScopeInterface(scope=ruleDescriptor.returnScope)>}>}
#pragma mark Rule return scopes Interface end
#pragma mark Tokens
#ifndef TOKENLISTAlreadyDefined
#define TOKENLISTAlreadyDefined 1
#ifdef EOF
#undef EOF
#endif
tokens:{it | #define <it.name> <it.type>}; separator="\n"
#endif
/* interface lexer class */
@interface <className()> <@superClassName>: <superClass><@end> { // line 283
cyclicDFAs:{dfa | DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n"
synpreds:{pred | SEL <pred>Selector;}; separator="\n"
/* ObjC start of actions.lexer.memVars */
<actions.lexer.memVars>
/* ObjC end of actions.lexer.memVars */
@end interface <className()>
@end superClass>@end { // line 283
cyclicDFAs:{dfa | DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n"
synpreds:{pred | SEL <pred>Selector;}; separator="\n"
/* ObjC start actions.lexer.methodsDecl */
<actions.lexer.methodsDecl>
/* ObjC end actions.lexer.methodsDecl */
rules:{rule |
- (<rule.ruleDescriptor:{ruleDescriptor|<returnType()>}>)
<if(!rule.ruleDescriptor.isSynPred)>m<rulè.ruleName><else><rule.ruleName>_fragment<endif>
<if(rule.ruleDescriptor.parameterScope)> <rule.ruleDescriptor.parameterScope:parameterScope()></if>; 
separator="n"><n>
@end /* end of <className()> interface */

headerReturnScope(ruleDescriptor) ::= "<returnScopeInterface(...)>
headerReturnType(ruleDescriptor) ::= <<
@if(LEXER)
@if(!r.ruleDescriptor.isSynPred)
void
@else
ruleDescriptor:returnType() </if(LEXER>
@if(!ruleDescriptor.isSynPred)
ruleDescriptor:returnType() </else>
ruleDescriptor:returnType() </else>
@end

// Produce the lexer output
lexer( grammar,
    name,
    tokens,
    scopes,
    rules,
    numRules,
    filterMode,
    labelType="CommonToken",
    superClass="Lexer"
) ::= <<
cyclicDFAs:cyclicDFA()>

/** As per Terence: No returns for lexer rules! */
<!
#pragma mark Rule return scopes start
<rules:{rule | <rule.ruleDescriptor:{ruleDescriptor |
<returnScopeImplementation(scope=ruleDescriptor:returnScope)>
}>}
#pragma mark Rule return scopes end
@implementation <grammar.recognizerName> // line 330

+ (void) initialize
{
    [BaseRecognizer setGrammarFileName:@"<fileName>"];
}

+ (NSString *) tokenNameForType:(NSInteger)aTokenType
{
    return [[self getTokenNames] objectAtIndex:aTokenType];
}
+ (<grammar.recognizerName> *)new<grammar.recognizerName>WithCharStream:(id\<CharStream>)anInput
{
return [[<grammar.recognizerName> alloc] initWithCharStream:anInput];
}
- (id) initWithCharStream:(id\<CharStream>)anInput
{
self = [super initWithCharStream:anInput State:[RecognizerSharedState
newRecognizerSharedStateWithRuleLen:<numRules>+1]];
if ( self != nil ) {
<if(memoize)>
if ( state.ruleMemo == nil ) {
state.ruleMemo = [[RuleStack newRuleStackWithSize:<numRules>+1] retain];
}
if ( [state.ruleMemo count] == 0 ) {
// initialize the memoization cache - the indices are 1-based in the runtime code!
<! [state.ruleMemo addObject:[NSNull null]]; /* dummy entry to ensure 1-basedness. */ !>
for (NSInteger i = 0; i \< <numRules>; i++) {
[state.ruleMemo addObject:[HashRule newHashRuleWithLen:17]];
}
}
<endif>
<synpreds:{pred | <lexerSynpred(name=pred)>};separator="\n">
<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">
<actions.lexer.init>
}
return self;
}
- (void) dealloc
{
<cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
<actions.lexer.dealloc>
[super dealloc];
}
/* ObjC Start of actions.lexer.methods */
<actions.lexer.methods>
/* ObjC end of actions.lexer.methods */
/* ObjC start methods() */
<@methods()>
/* ObjC end methods() */
<if(actions.lexer.reset)>
- (void) reset

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{<actions.lexer.reset>
  [super reset];
}
<endif>

<if(filterMode)>
<filteringNextToken()>
<endif>
/* Start of Rules */
<rules; separator="\n">
@end /* end of <grammar.recognizerName> implementation line 397 */
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
*  for matches. No error can be generated upon error; just rewind, consume
*  a token and then try again. backtracking needs to be set as well.
*  Make rule memoization happen only at levels above 1 as we start mTokens
*  at backtracking==1.
*/
filteringNextToken() ::= <<
  - (id<Token>) nextToken
  {
    while (YES) {
      if ( [input LA:1] == CharStreamEOF ) {
        return [<labelType> eofToken];
      }
    }
  }
state.token = nil;
state.channel = TokenChannelDefault;
state.tokenStartCharIndex = input.index;
state.tokenStartCharPositionInLine = input.charPositionInLine;
state.tokenStartLine = input.line;
state.text = nil;
@try {
  @try {
    NSInteger m = [input mark];
    state.backtracking = 1; /* means we won't throw slow exception */
    state.failed = NO;
    [self mTokens];
    state.backtracking = 0;
    /* mTokens backtracks with synpred at backtracking==2
     * and we set the synpredgate to allow actions at level 1. */
    if ( state.failed ) {
      [input rewind:m];
      [input consume]; /* advance one char and try again */
    } else {
      [self emit];
      return state.token;
    }
  }
  [input rewind:
    [input LA:1] == CharStreamEOF ];
  } else {
    return [input EOF];
  }
  [inputEOF] = nil;
}
@catch (RecognitionException *re) {
  // shouldn't happen in backtracking mode, but...
  [self reportError:re];
  [self recover:re];
}

- (void)memoize:(id<IntStream>)anInput
  RuleIndex:(NSInteger)ruleIndex
  StartIndex:(NSInteger)ruleStartIndex
{
  if ( state.backtracking > 1 ) [super memoize:anInput RuleIndex:ruleIndex StartIndex:ruleStartIndex];
}

- (BOOL)alreadyParsedRule:(id<IntStream>)anInput RuleIndex:(NSInteger)ruleIndex
{
  if ( state.backtracking > 1 ) return [super alreadyParsedRule:anInput RuleIndex:ruleIndex];
  return NO;
}

>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"

parserHeaderFile( LEXER,
  PARSER,
  TREE_PARSER,
  actionScope,
  actions,
  docComment,
  recognizer,
  name,
  tokens,
  tokenNames,
  rules,
  cyclicDFAs,
  bitsets,
  buildTemplate,
  profile,
  backtracking,
  synpreds,
  memoize,
  numRules,
  fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
literals,
superClass="Parser"
) ::= <<
/* parserHeaderFile */
<genericParserHeaderFile(inputStreamType="id\<TokenStream>",...)>
>>

treeParserHeaderFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memoize,
umRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
literals,
superClass="TreeParser"
) ::= <<
/* treeParserHeaderFile */
<genericParserHeaderFile(inputStreamType="id\<TreeNodeStream>"...,...)>
>>
genericParserHeaderFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
builtTemplate,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals,
inputStreamType
) ::= <<
<if(actions.(actionScope).header)>
/* =============================================================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action. */
<endif>
#ifndef ANTLR3TokenTypeAlreadyDefined
#define ANTLR3TokenTypeAlreadyDefined
typedef enum {
    ANTLR_EOF = -1,
    INVALID,
    EOR,
    DOWN,
    UP,
    MIN
} ANTLR3TokenType;
#endif
<cyclicDFAs:cyclicDFAInterface()>
#pragma mark Tokens
#pragma mark Tokens
#ifndef TOKENLISTAlreadyDefined
#define TOKENLISTAlreadyDefined
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#define TOKENLISTAlreadyDefined 1
#ifdef EOF
#undef EOF
#endif
	<tokens:{it | #define <it.name> <it.type>}; separator="n"> 
#endif

#pragma mark Dynamic Global Scopes globalAttributeScopeInterface
<scopes:{it | if(it.isDynamicGlobalScope)<globalAttributeScopeInterface(scope=it)<endif>> }
#pragma mark Dynamic Rule Scopes ruleAttributeScopeInterface
<rules:{rule | <rule.ruleDescriptor:ruleAttributeScopeInterface(scope=ruleDescriptor.ruleScope)>> }
#pragma mark Rule Return Scopes returnScopeInterface
<rules:{rule | <rule.ruleDescriptor:ruleAttributeScopeInterface(scope=ruleDescriptor.returnScope)>> }

/* Interface grammar class */
@interface <className()> <@superClassName> : <superClass>@end { /* line 572 */
#pragma mark Dynamic Rule Scopes ruleAttributeScopeDecl
<rules:{rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeDecl(scope=rule.ruleDescriptor.ruleScope)>> }
#pragma mark Dynamic Global Rule Scopes globalAttributeScopeMemVar
<scopes:{it | if(it.isDynamicGlobalScope)<globalAttributeScopeMemVar(scope=it)<endif>>
/* ObjC start of actions.(actionScope).memVars */
<actions.(actionScope).memVars>
/* ObjC end of actions.(actionScope).memVars */
/*@memVars()*/
/* ObjC end of memVars */

<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="n">
<synpreds:{pred | SEL <pred>Selector;}; separator="n"> 

/* ObjC start of actions.(actionScope).properties */
<actions.(actionScope).properties>
/* ObjC end of actions.(actionScope).properties */
/*@properties()*/
/* ObjC end of properties */

+(void) initialize;
+(<className()> *) new<className>(<inputStreamType>)aStream;
/* ObjC start of actions.(actionScope).methodsDecl */
<actions.(actionScope).methodsDecl>
/* ObjC end of actions.(actionScope).methodsDecl */

/* ObjC start of methodsDecl */
/*@methodsDecl()*/
/* ObjC end of methodsDecl */
<rules:{rule | }
-
(<rule.ruleDescriptor:{ruleDescriptor|<returnType()>}>){if(!rule.ruleDescriptor.isSynPred)}<rule.ruleName> {else ><rule.ruleName>_fragment{endif}<if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope: parameterScope()>{endif}; } ; separator="\n" >\n
@end /* end of <className()> interface */
>>

parser( grammar,
  name,
  scopes,
  tokens,
  tokenNames,
  rules,
  numRules,
  bitsets,
  ASTLabelType="CommonTree",
  superClass="Parser",
  labelType="CommonToken",
  members={ <actions.parser.members> } ) ::= <<
  <genericParser(inputStreamType="id\TokenStream", rewriteElementType="Token", ...)> 
>>

/** How to generate a tree parser; same as parser except the input
*  stream is a different type.
*/
treeParser( grammar,
  name,
  scopes,
  tokens,
  tokenNames,
  globalAction,
  rules,
  numRules,
  bitsets,
  filterMode,
  labelType={ <ASTLabelType> },
  ASTLabelType="CommonTree",
  superClass={ {if(filterMode) } { if(buildAST) } TreeRewriter } { else } TreeFilter { endif } { else } TreeParser { endif },
  members={ <actions.treeparser.members> } ) ::= <<
  <genericParser(inputStreamType="id\TreeNodeStream", rewriteElementType="Node", ...)> 
>>

/** How to generate a parser */
genericParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    cyclicDFAs, // parser init -- initializes the DFAs
    bitsets,
    labelType,
    ASTLabelType,
    superClass,
    members,
    filterMode,
    rewriteElementType,
    inputStreamType
) ::= <<
<cyclicDFAs:cyclicDFA()>

#pragma mark Bitsets
<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>}>

#pragma mark Dynamic Global globalAttributeScopeImplementation
<scopes:{it | <if(it.isDynamicGlobalScope)<globalAttributeScopeImplementation(scope=it)><endif>}>}

#pragma mark Dynamic Rule Scopes ruleAttributeScopeImplementation
<rules:{rule |
    <rule.ruleDescriptor:{ ruleDescriptor | <ruleAttributeScopeImplementation(scope=ruleDescriptor.ruleScope)>}>}>}

#pragma mark Rule Return Scopes returnScopeImplementation
<rules:{rule |
    <returnScopeImplementation(scope=ruleDescriptor.returnScope)>}>}

@implementation <grammar.recognizerName>  // line 637

/* ObjC start of ruleAttributeScope */
#pragma mark Dynamic Rule Scopes ruleAttributeScope
<rules:{rule |
    <rule.ruleDescriptor.ruleScope:ruleAttributeScope()>}>}

/* ObjC end of ruleAttributeScope */
#pragma mark global Attribute Scopes globalAttributeScope
/* ObjC start globalAttributeScope */
<scopes:{it | <if(it.isDynamicGlobalScope)<globalAttributeScope()><endif>}>}

/* ObjC end globalAttributeScope */
/* ObjC start actions.(actionScope).synthesize */
<actions.(actionScope).synthesize>
/* ObjC start synthesize() */
<@synthesize()>
+ (void) initialize
{
    #pragma mark Bitsets
    <bitsets:{it | <bitsetInit(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)}>;
    [BaseRecognizer setTokenNames:[[AMutableArray arrayWithObjects:@"<invalid>", @"<EOR>",
    @"<DOWN>" , @"<UP>" , <tokenNames:{it | @<it>}; separator=""," wrap="\n ", nil] retain];
    [BaseRecognizer setGrammarFileName:@"<fileName>" ];
    <synpreds:{pred | <synpred(pred)>}>;
}

+ (<grammar.recognizerName> *)new<grammar.recognizerName>:(<inputStreamType>)aStream
{
    <if(PARSER)>
        return [[<grammar.recognizerName> alloc] initWithTokenStream:aStream];
    <else>! TREE_PARSER !>
        return [[<grammar.recognizerName> alloc] initWithStream:aStream];
    <endif>
}

<if(PARSER)>
- (id) initWithTokenStream:(<inputStreamType>)aStream
{
    self = [super initWithTokenStream:aStream State:[[RecognizerSharedState
    newRecognizerSharedStateWithRuleLen:<numRules>+1] retain]];  
    if ( self != nil ) {
        <else>! TREE_PARSER !>
    - (id) initWithStream:(<inputStreamType>)aStream
{
        self = [super initWithStream:aStream State:[[RecognizerSharedState
        newRecognizerSharedStateWithRuleLen:<numRules>+1] retain]];  
        if ( self != nil ) {
            <! parserCtorBody() !>
            <cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> = DFA<dfa.decisionNumber>
    newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">;
            <scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeInit(scope=it)><endif> }>
            <rules:{rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeInit()>}> /* start of actions-actionScope-init */
            <actions.(actionScope).init>
            /* start of init */
            <@init()>  
            return self;
    }

- (void) dealloc
{
    <cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScopeDealloc(scope=it)<endif>}}>
<actions.(actionScope).dealloc>
@@dealloc()>
[super dealloc];
}
/* ObjC start actions.(actionScope).methods */
<actions.(actionScope).methods>
/* ObjC end actions.(actionScope).methods */
/* ObjC start methods */
@methods()>
/* ObjC end methods */
/* ObjC start rules */
<rules; separator="\n">>
/* ObjC end rules */
@end /* end of <grammar.recognizerName> implementation line 692 */

parserCtorBody() ::= <<
@if(memoize) /* parserCtorBody */
@if(grammar.grammarIsRoot)>
state.ruleMemo = [[RuleStack newRuleStack:<numRules>+1] retain];\n@try {
@block>
@finally {

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>_fragment
- (void) <ruleName>_fragment
{
<ruleLabelDefs()>
@if(trace)>
    [self traceIn:@"<ruleName>_fragment" Index:<ruleDescriptor.index>];
@try {
    <block>
}
@finally {


[self traceOut:\"<ruleName>_fragment\" Index:<ruleDescriptor.index>];
}
<else>

<block>
<endif>
} // $ANTLR end <ruleName>_fragment
>>
synpred(name) ::= <<
SEL <name>Selector = @selector(<name>_fragment);
<! // $ANTLR start <name>
- (BOOL) <name>
{
    state.backtracking++;
    <@start()>
    NSInteger start = [input mark];
    @try {
        [self <name>_fragment]; // can never throw exception
    }
    @catch (RecognitionException *re) {
        NSLog(@"impossible: %@\n", re.name);
    }
    BOOL success = (state.failed == NO);
    [input rewind:start];
    <@stop()>
    state.backtracking--;
    state.failed=NO;
    return success;
} // $ANTLR end <name> <\n> !>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( state.backtracking > 0 && [self alreadyParsedRule:input RuleIndex:<ruleDescriptor.index>] ) { return <ruleReturnValue>(); }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if ( state.failed ) return <ruleReturnvalue>();<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if ( state.backtracking > 0 ) { state.failed = YES; return <ruleReturnValue()>; }<\n><endif>
>>
/** How to generate code for a rule.
* The return type aggregates are declared in the header file (headerFile template)
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/*
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
- (<returnType()>) <ruleName><ruleDescriptor.parameterScope:parameterScope()>
{
<if(trace)>[self traceIn:\@"<ruleName>" Index:<ruleDescriptor.index>];<endif>
<if(trace)>NSLog(@"enter <ruleName> %@ failed=%@ backtracking=%d", [input LT:1],
(state.failed==YES)?@"YES":@"NO", state.backtracking);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleDescriptor.actions.init>
<@preamble()>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else><if(!emptyRule)><if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
@catch (RecognitionException *re) {
[self reportError:re];
[self recover:input Exception:re];
<@setErrorReturnValue()>
}<\n>
<endif><endif><endif>
@finally {
<if(trace)>[self traceOut:@"<ruleName>" Index:<ruleDescriptor.index>];<endif>
<memoize()>
<ruleScopeCleanUp()>
<finally>
}
<@postamble()>
return <ruleReturnValue()>;

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lexerRuleLabelDefs() ::= <<
lexerRuleLabelDef() ::= <<
ruleReturnValue() ::= <<
ruleCleanUp() ::= << /** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
/** How to generate code for the implicitly-defined lexer grammar rule * that chooses between lexer rules. */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
- (void) mTokens
{
    <block>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // block
NSInteger alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
    <alts:{a | <altSwitchCase(i, a)>}}
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> //ruleblock
NSInteger alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
    <alts:{a | <altSwitchCase(i, a)>}}
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description> // ruleBlockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>
/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>::<description> // blockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description> // positiveClosureBlock
NSInteger cnt<decisionNumber> = 0;
<decls>
<@preloop()>
do {
    NSInteger alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
        <alts:{a | <altSwitchCase(i, a)>}>
        default :
            if ( cnt<decisionNumber> >= 1 )
                goto loop<decisionNumber>;
        <ruleBacktrackFailure()>
        EarlyExitException *eee =
            [EarlyExitException newException:input decisionNumber:<decisionNumber>];
        <@earlyExitException()>
        @throw eee;
    }
    cnt<decisionNumber>++;
} while (YES);
loop<decisionNumber>:;
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description> // closureBlock
<decls>
<@preloop()>
do {
NSInteger alt<decisionNumber> = <maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
  <alts:{a | <altSwitchCase(i, a)>}>
  default :
    goto loop<decisionNumber>;
  }
} while (YES);
loop<decisionNumber>:
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative */
* number.  A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum, alt) ::= <<
  case <altNum> :
    <@prealt()>
    <alt>
    break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  // <fileName>:<description> // alt
  {
    <@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()>
  }
}>>

/** What to emit when there is no rewrite.  For auto build */
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""
[state setIsErrorRecovery:NO];
@endif
@if(backtracking) state.failed = NO; @endif
}
else {
    <ruleBacktrackFailure()>
    MismatchedSetException *mse = [MismatchedSetException newException:nil stream:input];
    #@mismatchedSetException()@
    <if(LEXER)>
    <if(label)>
        mse.c = <label>;
    <endif>
    [self recover:mse];
    @throw mse;
    <else>
        @throw mse;
    <endif>
    <! use following code to make it recover inline; remove throw mse;
    [self recoverFromMismatchedSet:input exception:mse follow:FOLLOW_set_in_<ruleName><elementIndex>]; !>
</if>
} \n
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
    <matchSet(...)
    <listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
    <if(label)>
    NSInteger <label>Start = input.index;
    [self matchString:<string>]; <checkRuleBacktrackFailure()>
    NSInteger StartLine<elementIndex> = self.line;
    NSInteger <label>StartCharPos<elementIndex> = self.charPositionInLine;
    <label> = [[<labelType> newToken:input Type:TokenTypeInvalid Channel:TokenChannelDefault Start:<label>Start Stop:input.index] retain];
    [self setLine:<label>StartLine<elementIndex>];
    [self setCharPositionInLine:<label>StartCharPos<elementIndex>];
    <else>
    [self matchString:<string>]; <checkRuleBacktrackFailure()>
</if>
>>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
    <if(label)>
    <label> = (<labelType> *)[input LT:1]; \n    <endif>
>>
wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
$listLabel(elem=label,...)>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
NSInteger <label> = [input LA:1];<\n>
<endif>
[self matchAny]; <checkRuleBacktrackFailure()><\n>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
$listLabel(elem=label,...)>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ruleRef */
[self pushFollow:FOLLOW_<rule.name>_in_<ruleName><elementIndex>];
<if(label)<label> = <endif>[self <if(scope)><scope:delegateName()>.<endif><rule.name><if(args)>:<first(args)>
<rest(args):{ a | arg<i>:<rest(args)>}; separator=" "><endif>];<\n>
[self popFollow];
<checkRuleBacktrackFailure()><\n>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>>
$listLabel(elem=label,...)>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <<
<if(label)>
:NSInteger <label>Start<elementIndex> = input.index;
[self m<rule.name>:<if(args)>:args separator=" ":<endif>]; <checkRuleBacktrackFailure>()<
<label> = [[<labelType> newToken:input Type:TokenTypeInvalid Channel:TokenChannelDefault
Start:<label>Start<elementIndex> Stop:input.index-1] retain];
<label>.line = self.line;
<else>
[self <if(scope)><scope:delegateName()>.<endif>m<rule.name>:<if(args)>:args separator=" ":<endif>];
<checkRuleBacktrackFailure>()<
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>>

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
<if(label)>
:NSInteger <label>Start<elementIndex> = input.index;
[self matchChar:CharStreamEOF]; <checkRuleBacktrackFailure>()<
<labelType> <label> = [[<labelType> newToken:input Type:TokenTypeEOF Channel:TokenChannelDefault
Start:<label>Start<elementIndex> Stop:input.index-1] retain];
<label>.line = self.line;
<else>
[self matchChar:CharStreamEOF]; <checkRuleBacktrackFailure>()<
<endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= ".p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> \= <opPrec>
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src, name) ::= "$<name>=$<src>.<name>;

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root;element()>
<if(actionsAfterRoot;element())>
<if(nullableChildList)>if ( [input LA:1] == DOWN ) {
 [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children;element()>
[self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>

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/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/

validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) ) {
  <ruleBacktrackFailure()>
  @throw [FailedPredicateException newException:@"<ruleName>" predicate:@"<description>" stream:input];
}
>>

// Fixed DFA (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="nelse ">
else {
  <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;
  </if>
  <else>
    <ruleBacktrackFailure()>
    NoViableAltException *nvae = [NoViableAltException newException:decisionNumber state:stateNumber stream:input];
    nvae.c = LA<decisionNumber>_<stateNumber>;
    @noViableAltException() 
    @throw nvae;</else>
<nelse>
}<endif>
>>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/

dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="nelse ">
}<endif>
>>

/** A DFA state that is actually the loopback decision of a closure
*/
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/

```
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="\n"><\n>
;if(eotPredictsAlt)
:itemList<if(edges)>
alt<decisionNumber>==eotPredictsAlt; <! if no edges, don't gen ELSE !>
}else {
  alt<decisionNumber> = eotPredictsAlt;
}<\n>
</endif><endif>
>>
```

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>==alt;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
  <targetState>
}<\n>
>>

// F i x e d  D F A  (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
unichar charLA<decisionNumber> = [input LA:<k>];
switch (charLA<decisionNumber>) {
  <edges; separator="\n"><\n>
default: ;
  if(eotPredictsAlt)
    alt<decisionNumber> == eotPredictsAlt;
  else
    <ruleBacktrackFailure()>
      NoViableAltException *nvae = [NoViableAltException newException:<decisionNumber> state:<stateNumber> stream:input];
      nvae.c = charLA<decisionNumber>;
}
dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ([input LA:<k>]) { // dfaOptionalBlockStateSwitch
  edges; separator="\n"}<\n>
}<<

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ([input LA:<k>]) { // dfaLoopbackStateSwitch
  edges; separator="\n"}<\n>
@if(eotPredictsAlt)
  default:
  alt<decisionNumber> = <eotPredictsAlt>;
  break;<\n>
@endif
}<<

dfaEdgeSwitch(labels, targetState) ::= <<
  {it | case <it>: ;}; separator="\n"
  {<targetState>
    break;
  }<<

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= <<
  alt<decisionNumber> = [dfa<decisionNumber> predict:input];
>>

/** Used in headerFile */
cyclicDFAInterface(dfa) ::= <<
#pragma mark Cyclic DFA interface start DFA<dfa.decisionNumber>
@interface DFA<dfa.decisionNumber> : DFA {
}
+(DFA<dfa.decisionNumber> *) newDFA<dfa.decisionNumber>WithRecognizer:(BaseRecognizer *)theRecognizer;
initWithRecognizer:(BaseRecognizer *)recognizer;
@end /* end of DFA<dfa.decisionNumber> interface */
#pragma mark Cyclic DFA interface end DFA<dfa.decisionNumber>

/** Used in lexer/parser implementation files */
/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
#pragma mark Cyclic DFA implementation start DFA<dfa.decisionNumber>
@implementation DFA<dfa.decisionNumber>
const static NSInteger dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] = 
    {<dfa.eot; wrap="\n  ", separator="\", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] = 
    {<dfa.eof; wrap="\n  ", separator="\", null="-1">};
const static unichar dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] = 
    {<dfa.min; wrap="\n  ", separator="\", null="-1">};
const static unichar dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] = 
    {<dfa.max; wrap="\n  ", separator="\", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] = 
    {<dfa.accept; wrap="\n  ", separator="\", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] = 
    {<dfa.special; wrap="\n  ", separator="\", null="-1">};

/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty	    nil
<dfa.edgeTransitionClassMap.keys:{ table |
    const static NSInteger dfa<dfa.decisionNumber>_T<i0>[] = 
        {<table; separator="\n  ", wrap="\n  ", null="-1">};
    const static NSInteger *dfa<dfa.decisionNumber>_transition[] = 
        {<dfa.transitionEdgeTables:{whichTable|dfa<dfa.decisionNumber>_T<whichTable>}; separator="\n  ", wrap="\n  ", null="nil">}
    ();
}

const static NSInteger *dfa<dfa.decisionNumber>_transition[] = 
    {<dfa.transitionEdgeTables:{whichTable|dfa<dfa.decisionNumber>_T<whichTable>}; separator="\n  ", wrap="\n  ", null="nil">}
};

+(DFA<dfa.decisionNumber> *)newDFA<dfa.decisionNumber>WithRecognizer:(BaseRecognizer *)aRecognizer
{[DFA<dfa.decisionNumber> alloc] initWithRecognizer:aRecognizer];
}

-(id) initWithRecognizer:(BaseRecognizer *) theRecognizer
{
    self = [super initWithRecognizer:theRecognizer];
    if ( self != nil ) {
        decisionNumber = <dfa.decisionNumber>;
        eot = dfa<dfa.decisionNumber>_eot;
        eof = dfa<dfa.decisionNumber>_eof;
        min = dfa<dfa.decisionNumber>_min;
        max = dfa<dfa.decisionNumber>_max;
        accept = dfa<dfa.decisionNumber>_accept;
        special = dfa<dfa.decisionNumber>_special;
        transition = dfa<dfa.decisionNumber>_transition;
    }
    return self;
}

@if(dfa.specialStateSTs)
/* start dfa.specialStateSTs */
-(NSInteger) specialStateTransition:(NSInteger)s Stream:(id<IntStream>)anInput
{
    id<IntStream> input = anInput;
@end
@if(LEXER)
    id<TokenStream> input = (id<TokenStream>)anInput;
@end
@if(PARSER)
    id<TreeNodeStream> input = (id<TreeNodeStream>)anInput;
@end
@if(TREE_PARSER)
    id<TreeNodeStream> input = (id<TreeNodeStream>)anInput;
@end
    switch (s) {
        <dfa.specialStateSTs:{state |
            case <i0> : ;<! compressed special state numbers 0..n-1 !>
                <state> {}; separator="\n">
        }
@end(backtracking)
    if ( [recognizer getBacktrackingLevel] > 0 ) { [recognizer setFailed:YES]; return -1; }
@end
    NoViableAltException *nvae = [NoViableAltException newException:<dfa.decisionNumber> state:s stream:recognizer.input];
    // nvae.c = s;
    /* [self error:nvae]; */ /* for debugger - do later !
    @throw nvae;
} \n/* end dfa.specialStateSTs */
- (void) dealloc
{
    //free(transition);
    [super dealloc];
}

- (NSString *) description
{
    return @"<dfa.description>";
}

@end /* end DFA<dfa.decisionNumber> implementation */
#pragma mark Cyclic DFA implementation end DFA<dfa.decisionNumber>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
    NSInteger LA<decisionNumber>_<stateNumber> = [input LA:1];
    if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
        NSInteger index<decisionNumber>_<stateNumber> = input.index;
        [input rewind];
    <endif>
    s = -1;
    <edges; separator="else ">
        if(semPredState) <! return input cursor to state before we rewound !>
            [input seek:index<decisionNumber>_<stateNumber>];
        <endif>
        if ( s >= 0 )
            return s;
        break;
    <endif>
    /* cyclicDFAState */
    NSInt32 LA<decisionNumber>_<stateNumber> = [input LA:1];
    if(semPredState) <! get next lookahead symbol to test edges, then rewind !>
        NSInteger index<decisionNumber>_<stateNumber> = input.index;
        [input rewind];
    <endif>
    if ( s >= 0 )
        return s;
    break;
} /* */

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
    /* cyclicDFAEdge */
    if (<labelExpr><if(predicates)> && (<predicates>)<endif>) { s = <targetStateNumber>; }
} /* */

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/

eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\in> /* eotDFAEdge */
>>

// D F A E X P R E S S I O N S

andPredicates(left, right) ::= "(\<left\\>&&\<right\\>)"

orPredicates(operands) ::= "(\<operands\\; separator="\\||\\">)"

notPredicate(pred) ::= "!(\<evalPredicate(pred, {}\\)>)"

evalPredicate(pred, description) ::= "(\<pred\\>)"

/*
* evalSynPredicate(pred, description) ::= "\<pred\\>()"
* synpreds are broken in cyclic DFA special states
* Damn! For now, work around with using the selectors directly, and by providing a trampoline evalSynPred
* method in
* DFA
*/
/* evalSynPredicate(pred, description) ::= "[self evaluateSyntacticPredicate:<pred>Selector stream:input]\" */

evalSynPredicate(pred, description) ::= "[self evaluateSyntacticPredicate:@selector(<pred>_fragment)]"
/* evalSynPredicate(pred, description) ::= "[recognizer <pred>]\" */

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom, k, atomAsInt) ::= "[input LA:<k>] == <atom>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <%
(LA<decisionNumber>_<stateNumber> >= <lower> && LA<decisionNumber>_<stateNumber> <= <upper>) %>

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "(([input LA:<k>] >=
<lower> && ([input LA:<k>] <= <upper>))"

setTest(ranges) ::= <%
\<ranges; separator="\\||\\"> %>

// A T T R I B U T E S
memVars(scope) ::= <% <scope.attributes:{a|<a.type> <a.name>;\n}; separator="\n"> %>

properties(scope) ::= <%
<scope.attributes:{a@[property (assign, getter=get<a.name>, setter=set<a.name>)] <a.type> <a.name>;\n}; separator="\n"> %>

methodsDecl(scope) ::= <%
<scope.attributes:{a|(- (<a.type>)get<a.name>;\n)-(void)set<a.name>:(<a.type>)aVal;\n}; separator="\n"> %>

synthesize(scope) ::= <%
<scope.attributes:{a[@synthesize <a.name>];}; separator="\n"> %>

methods(scope) ::= <%
<scope.attributes:{a|
- (<a.type>)get<a.name> { return( <a.name> ); \n}
- (void)set<a.name>:(<a.type>)aVal { <a.name> = aVal; \n}; separator="\n"> %>

globalAttributeScopeInterface(scope) ::= <%
/* globalAttributeScopeInterface */
@interface <scope.name>_Scope : SymbolsScope {\n@if(scope.attributes)
<memVars(scope)>
@end\n</if>
}@if(scope.attributes)
/* start of globalAttributeScopeInterface properties */
<properties(scope)>
/* End of globalAttributeScopeInterface properties */
@end\n@if(scope.attributes)
/* start of globalAttributeScopeInterface methodsDecl */
<methodsDecl(scope)>
/* End of globalAttributeScopeInterface methodsDecl */
@end
%>

globalAttributeScopeMemVar(scope) ::= <%
/* globalAttributeScopeMemVar */
SymbolStack *<scope.name>_stack;\n</scope.name>_Scope *<scope.name>_scope;\n%>
globalAttributeScopeImplementation(scope) ::= <%
@implementation <scope.name>_Scope /* globalAttributeScopeImplementation */
@if(scope.attributes)>
/* start of synthesize -- OBJC-Line 1750 */
synthesize(scope)<<
@end /* end of <scope.name>_Scope implementation */
%

globalAttributeScopeInit(scope) ::= <<
/* globalAttributeScopeInit */
<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];
<scope.name>_stack = [SymbolStack newSymbolStackWithLen:30];
>>

globalAttributeScopeDealloc(scope) ::= <%
[<scope.name>_stack release];
%

globalAttributeScope(scope) ::= <%
@if(scope.name)
static <scope.name>_stack;
@end /* end of <scope.name>_Scope implementation */
%

ruleAttributeScopeMemVar(scope) ::= <%
/* ObjC ruleAttributeScopeMemVar */
@if(scope.attributes)
<scope.name>_Scope *<scope.name>_scope; /* ObjC ruleAttributeScopeMemVar */
@end /* end of <scope.name>_Scope implementation */
%

ruleAttributeScopeInterface(scope) ::= <%
<if(scope.attributes)>
/* start of ruleAttributeScopeInterface */
@interface <scope.name>_Scope : SymbolsScope {
 @memVars(scope);
 }
/* start property declarations */
<properties(scope)>
/* start method declarations */
+ (<scope.name>_Scope *)&new<scope.name>_Scope;
- (id) init;
<methodsDecl(scope)>
@end /* end of ruleAttributeScopeInterface */
<endif>
%

ruleAttributeScopeImplementation(scope) ::= <%
@if(scope.attributes)>
@implementation <scope.name>_Scope /* start of ruleAttributeScopeImplementation */
<synthesize(scope)>
+
+(<scope.name>_Scope *)&new<scope.name>_Scope
{
 return [ [<scope.name>_Scope alloc] init];
}

- (id) init
{
 self = [super init];
 return self;
}
/* start of <scope.name>_Scope get and set functions */
<methods(scope)>
/* End of <scope.name>_Scope get and set functions */
@end /* end of ruleAttributeScopeImplementation */
<endif>
%

ruleAttributeScopeInit(scope) ::= <%
<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];
<scope.name>_stack = [SymbolStack newSymbolStackWithLen:30];
%

ruleAttributeScopeDealloc(scope) ::= <%
[<scope.name>_Scope release];
%

ruleAttributeScope(scope) ::= <%
/* ruleAttributeScope */
static SymbolStack *<scope.name>_stack;
static <scope.name>_Scope *<scope.name>_scope;

%>

ruleAttributeScopeDecl(scope) ::= <%
/* ruleAttributeScopeDecl */
<if(scope.attributes)>
<scope.name>_Scope *<scope.name>_scope;<
<endif>
%

returnStructName(r) ::= "<className()>_<r.name>_return"

returnType() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()> *
<else>
<if(ruleDescriptor.hasSingleReturnValue)><ruleDescriptor.singleValueReturnType><else>
void
<endif>
<endif>
<else>
void
<endif>
%

/** Generate the Objective-C type associated with a single or multiple return
* values. */
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<className()>_<referencedRule.name>_return *
<else>
<if(referencedRule.hasSingleReturnValue)><referencedRule.singleValueReturnType> <else>
void<endif>
<endif>
%

delegateName(d) ::= <%
<if(d.label)> <d.label> <else> g<d.name> <endif> %>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null". */
initValue(typeName) ::= <%
    <objcTypeInitMap.(typeName)> %>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
    <ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
    <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n%>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScopeInterface(scope) ::= <%
    if(ruleDescriptor.hasMultipleReturnValues)>
    /* returnScopeInterface <ruleDescriptor:returnStructName()> */
    @interface <ruleDescriptor:returnStructName()> : <%
    if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope { /* returnScopeInterface line 1838 */
    <@memVars()> /* ObjC start of memVars() */<
    if(scope.attributes)
    <memVars(scope)><
    endif>
    /* start property declarations */
    <@properties()><
    if(scope.attributes)
    <properties(scope)><
    endif>
    /* start of method declarations */<
    + (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName()>;<
    /* this is start of set and get methods */
    <@methodsDecl()> /* methodsDecl */<
    if(scope.attributes)
    /* start of iterated get and set functions */<
    <methodsDecl(scope)><
    endif>
    @end /* end of returnScopeInterface interface */<
    endif>
}>>

returnScopeImplementation(scope) ::= <%
    if(ruleDescriptor.hasMultipleReturnValues)>
    @implementation <ruleDescriptor:returnStructName()> /* returnScopeImplementation */<
    <@synthesize()> /* start of synthesize -- OBJC-Line 1837 */<
    if(scope.attributes)
    <synthesize(scope)><
    endif>
    + (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName()><
    [ <\n}
return [[[<ruleDescriptor:returnStructName()> alloc] init] retain];

- (id) init
{
    self = [super init];
    return self;
}

@interface
@end

@end /* end of returnScope implementation */

parameterScope(scope) ::= <<
! <scope.attributes:{it | :(<it.type>)<it.name>}; separator=" "> !>
<first(scope.attributes):{ a | :(<a.type>)<a.name}> <rest(scope.attributes):{ a | arg<i>:(<a.type>)<a.name> }; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"

parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>;"

/** Note that the scopeAttributeRef does not have access to the
* grammar name directly
*/

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
    <if(negIndex)>
        ((<scope>_Scope *)(<scope>_stack objectAtIndex:<negIndex>-1)).<attr.name>
    <else>
        ((<scope>_Stack)objectAtIndex:<index>).<attr.name>
    <endif>
<%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
    /* scopeSetAttributeRef */
    <if(negIndex)>
/* scopeSetAttributeRef */

scopeAttributeRefStack() ::= <<
/* scopeAttributeRefStack */
<if(negIndex)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:[<scope>_stack count]-<negIndex>-1]).<attr.name> = <expr>;
<else>
<if(index)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:<index>]).<attr.name> = <expr>;
<else>
((<scope>_Scope *)[<scope>_stack peek]).<attr.name> = <expr>;
<endif>
<endif>
>>

/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=nil?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> /* added to returnAttributeRef */
<else>
<attr.name>
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>

/* scope >_Scope */[<scope>_stack objectAtIndex:([<scope>_stack size]-<negIndex>-1)].<attr.name> = <expr>;
<else>
<if(index)>
([<scope>_Scope *][<scope>_stack objectAtIndex:<index>]).<attr.name> = <expr>;
<else>
([<scope>_Scope *][<scope>_stack peek]).<attr.name> = <expr>;
<endif>
<endif>
%>

/* scope >_Scope */[<scope>_stack objectAtIndex:([<scope>_stack size]-<negIndex>-1)].<attr.name> = <expr>;
<else>
<if(index)>
([<scope>_Scope *][<scope>_stack objectAtIndex:<index>]).<attr.name> = <expr>;
<else>
([<scope>_Scope *][<scope>_stack peek]).<attr.name> = <expr>;
<endif>
<endif>
>>

/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=nil?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> /* added to returnAttributeRef */
<else>
<attr.name>
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>

retval.<attr.name> =<expr>; /* added to returnSetAttributeRef */
<else>
<attr.name> = <expr>;<
<endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>">

/** ids+=ID {Ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

/* not sure the next are the right approach; and they are evaluated early; */
/* they cannot see TREE_PARSER or PARSER attributes for example. :( */
tokenLabelPropertyRef_text(scope,attr) ::= "((<scope>!=nil?<scope>.text:nil)"
tokenLabelPropertyRef_type(scope,attr) ::= "((<scope>!=nil?<scope>.type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "((<scope>!=nil?<scope>.line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "((<scope>!=nil?<scope>.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "((<scope>!=nil?<scope>.channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "((<scope>!=nil?[<scope> getTokenIndex]:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "((<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "((<scope>!=nil?[<scope>.text integerValue]:0)"

ruleLabelPropertyRef_start(scope,attr) ::= "((<scope>!=nil?[<labelType> *)<scope>.start:nil)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<scope>!=nil?[<labelType> *)<scope>.stopToken:nil)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<scope>!=nil?[ASTLabelType> *)<scope>.tree:nil)"
ruleLabelPropertyRef_text(scope,attr) ::= 
<br><if(TREE_PARSER)>
(<scope>!=nil?[input getTokenStream] toStringFromStart:[input getTreeAdaptor] getTokenStartIndex:[<scope> getStart])
<else>
(<scope>!=nil?[input toStringFromToken:[<scope> getStart] ToToken:[<scope> getStop]]:0
<endif>
%
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope>!=nil?[<scope> st]:nil)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope>!=nil?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope>!=nil?<scope>.line:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope>!=nil?<scope>.charPositionInLine:-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope>!=nil?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope>!=nil?[<scope> getTokenIndex]:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope>!=nil?<scope>.text:nil)"
lexerRuleLabelPropertyRef_int(scope, attr) ::= "(<scope>.text integerValue):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "((<labelType> *)retval.start)"
rulePropertyRef_stop(scope, attr) ::= "((<labelType> *)retval.stopToken)"
rulePropertyRef_tree(scope, attr) ::= "((<ASTLabelType> *)retval.tree)"
rulePropertyRef_text(scope, attr) ::= <<
  <if(TREE_PARSER)>
    [[input getTokenStream] toStringFromStart:[[input getTreeAdaptor]
      getTokenStartIndex:retval.start.token.startIndex]
    ToEnd:[[input getTreeAdaptor] getTokenStopIndex:retval.start.token.stopIndex]]
  <else>
    [input toStringFromToken:retval.start ToToken:[input LT:-1]]
  <endif>
>>
rulePropertyRef_st(scope, attr) ::= "retval.st"

/* hideous: find a way to cut down on the number of templates to support read/write access */
/* TODO: also, which ones are valid to write to? ask Ter */
lexerRuleSetPropertyRef_text(scope, attr, expr) ::= "state.text = <expr>;"
lexerRuleSetPropertyRef_type(scope, attr, expr) ::= "_type"
lexerRuleSetPropertyRef_line(scope, attr, expr) ::= "state.tokenStartLine"
lexerRuleSetPropertyRef_pos(scope, attr, expr) ::= "state.tokenStartCharPositionInLine"
lexerRuleSetPropertyRef_index(scope, attr, expr) ::= ".-1" /* undefined token index in lexer */
lexerRuleSetPropertyRef_channel(scope, attr, expr) ::= "state.channel=<expr>;"
lexerRuleSetPropertyRef_start(scope, attr, expr) ::= "state.tokenStartCharIndex"
lexerRuleSetPropertyRef_stop(scope, attr, expr) ::= "((input.index-1))"

lexerRulePropertyRef_text(scope, attr) ::= "self.text"
lexerRulePropertyRef_type(scope, attr) ::= "state.type"
lexerRulePropertyRef_line(scope, attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope, attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope, attr) ::= ".-1" /* undefined token index in lexer
lexerRulePropertyRef_channel(scope, attr) ::= ".channel"
lexerRulePropertyRef_start(scope, attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope, attr) ::= "((input.index-1))"
lexerRulePropertyRef_int(scope, attr) ::= "[<scope>.text integerValue]"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.start =<expr>;"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.st =<expr>;'" /* "\n"#error StringTemplates are unsupported<\n> */

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
    <action>
}
<else>
<action>
<endif>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
    static ANTLRBitSet *<name>;
    static const unsigned long long <name>_data[] = { <words64:{it | <it>LL};separator="", "};<\n>
>>

bitsetInit(name, words64) ::= <<
    <name> = [[ANTLRBitSet newBitSetWithBits:(const unsigned long long *)<name>_data
    Count:(NSUInteger)<length(words64)>] retain];<\n>
>>

codeFileExtension() ::= ".m"

true_value() ::= "YES"
false_value() ::= "NO"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/ObjC.stg
No license file was found, but licenses were detected in source scan.

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*/

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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarDanglingStateMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/Interval.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarUnreachableAltsMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/ToolMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarReport.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/CompositeGrammarTree.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/NFAFactory.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/AnalysisRecursionOverflowException.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/Perl5Target.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/Util5.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/BitSet.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/SemanticContext.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/NonRegularDecisionMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/RecursionOverflowMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/DFA.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr/analysis/DFA.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr/tool/RandomPhrase.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr/codegen/PythonTarget.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Message.java
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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr3.ST;
using Antlr3.ST.Language;
>>

@genericParser.members() ::= <<
<@super.members()>
private StringTemplateGroup _templateGroup = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );

public StringTemplateGroup TemplateGroup
{
    get { return _templateGroup; };
    set { _templateGroup = value; }
}
>>

ruleReturnBaseType() ::= <%
    Template<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<StringTemplate, <labelType>>%

    /* x+=rule when output=template */
    ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
        <ruleRef(...)>
        <listLabelElem(elem={<label>.Template},elemType="StringTemplate",...)>
    >>

    rewriteTemplate(alts) ::= <<

    // TEMPLATE REWRITE
        <if(backtracking>)
        if (<actions.(actionScope).synpredgate>)
            {
                <alts:rewriteTemplateAlt(); separator="else ">
                <if(rewriteMode)><replaceTextInLine()><endif>
            }
        }

    }}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).Replace(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start),
retval.Template);
<else>
((TokenRewriteStream)input).Replace(
retval.Start.TokenIndex,
input.LT(-1).TokenIndex,
retval.Template);
<endif>
>>

rewriteTemplateAlt(it) ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>)
{
retval.Template = <it.alt>;
}
<else>
{
retval.Template = <it.alt>;
}
<endif>
>>

rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name,args) ::= <%
TemplateGroup.GetInstanceOf("<name>"<optionalArguments(args)>)
%>
/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
    TemplateGroup.GetInstanceOf(<expr><optionalArguments(args)>)
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
    new StringTemplate(TemplateGroup, "<template>"<optionalArguments(args)>)
%>

optionalArguments(args) ::= <<
    if(args),
    new Dictionary<string, object>() { <args:optionalArgument(); separator=" ", /*> }<endif>
>>

optionalArgument(it) ::= <<
    ["<it.name">", <it.value>]
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
    <action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
    (<st>).SetAttribute("<attrName>", <expr>);
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
    new StringTemplate(TemplateGroup,<stringExpr>)
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
  jar/org/antlr/codegen/templates/CSharp3/ST.stg
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*/

/** The API version of the runtime that recognizers generated by this runtime
 * need.
 */
apiVersion() ::= "1"

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
   docComment, recognizer,
   name, tokens, tokenNames, rules, cyclicDFAs,
   bitsets, buildTemplate, buildAST, rewriteMode, profile,
   backtracking, synpreds, memoize, numRules,
   fileName, ANTLRVersion, generatedTimestamp, trace,
   scopes, superClass, literals) ::=
<<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
import sys
from antlr3 import *
@if(TREE_PARSER)>
from antlr3.tree import *
<@end>

<actions.(actionScope).header>

<! <docComment> !>

# for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

# token types
<tokens:{it | <it.name>=<it.type>}; separator=\n"}>

# token names
tokenNamesMap = {0: "\invalid", 1: "\EOR", 2: "\DOWN", 3: "\UP",
<tokens:{it | <it.name>="\"<it.type>"}
; wrap, separator=", ">
Token.registerTokenNamesMap(tokenNamesMap)

<recognizer>

<if(actions.(actionScope).main)>
<html>
<actions.(actionScope).main>
<else>
<editor>
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
<if(LEXER)>
from antlr3.main import LexerMain
main = LexerMain(<recognizer.name>)<\n>
<endif>
<if(PARSER)>
from antlr3.main import ParserMain
main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)<\n>
<endif>
<if(TREE_PARSER)>
from antlr3.main import WalkerMain
main = WalkerMain(<recognizer.name>)<\n>
<endif>
main.stdin = stdin
main.stdout = stdout
main.stderr = stderr
main.execute(argv)<\n>
<endif>

<actions.(actionScope).footer>

if __name__ == '__main__':
    main(sys.argv)

>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode,
       labelType="CommonToken", superClass="Lexer") ::= <<
<if(grammar.directDelegates)>
# path hack to allow absolute import of related grammars.
from os.path import dirname
__path__ = [dirname(__file__)]
del dirname
<grammar.directDelegates:
{g|from .<g.recognizerName> import <g.recognizerName>}; separator="\n">

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    <scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
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```python
grammarFileName = "<fileName>"
api_version = <apiVersion()>

def __init__(self<grammar.delegators:{g|, <g:delegateName()}>), input=None, state=None):
    if state is None:
        state = RecognizerSharedState()
    super().__init__(input, state)

<if(memoize)>
<if(grammar.grammarIsRoot)>
    self._state.ruleMemo = {}
<endif>
<endif>
<endif>

<grammar.directDelegates:
    {g|self.<g:delegateName>() = <g.recognizerName>({trunc(g.delegators):{p|p:delegateName()}, }self, input, state)}; separator="\n">
<grammar.directDelegates:
    {g|<g.delegates:{h|self.<h:delegateName>() = self.<g:delegateName()>.<h:delegateName()}>}; separator="\n">; separator="\n">
<grammar.delegators:
    {g|self.<g:delegateName>() = <g:delegateName()>}; separator="\n">
<last(grammar.delegators):
    {g|self.gParent = <g:delegateName()>}; separator="\n">
    self.delegates = [<grammar.delegates: {g|self.<g:delegateName()>}; separator = ", ">]
<grammar.cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">
<actions.lexer.init>
<actions.lexer.members>

<if(filterMode)>
    <filteringNextToken()>
<endif>
<rules; separator="\n\n">
<synpreds:{p | <lexerSynpred(p)>}>
<cyclicDFAs: cyclicDFA()> <!-- dump tables for all DFA -->

>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
```
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/

filteringNextToken() ::= <<
  def nextToken(self):
    while True:
      if self.input.LA(1) == EOF:
        return self.makeEOFToken()

      self._state.token = None
      self._state.channel = DEFAULT_CHANNEL
      self._state.tokenStartCharIndex = self.input.index()
      self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
      self._state.tokenStartLine = self.input.line
      self._state._text = None
      try:
        m = self.input.mark()
        try:
          # means we won't throw slow exception
          self._state.backtracking = 1
          try:
            self.mTokens()
          finally:
            self._state.backtracking = 0
        except BacktrackingFailed:
          # mTokens backtracks with synpred at backtracking==2
          # and we set the synpredgate to allow actions at level 1.
          self.input.rewind(m)
          self.input.consume() # advance one char and try again

        else:
          self.emit()
          return self._state.token

      except RecognitionException as re:
        # shouldn't happen in backtracking mode, but...
        self.reportError(re)
        self.recover(re)

  def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
      # is Lexer always superclass?
      super().memoize(input, ruleIndex, ruleStartIndex, success)
def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return super().alreadyParsedRule(input, ruleIndex)
    return False

actionGate() ::= "self._state.backtracking == 0"
filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, labelType, members,
    rewriteElementType, filterMode, init, ASTLabelType="Object") ::= <<
    # token names
tokenNames = [
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",
        <tokenNames; wrap, separator=", ">
    ]
<scopes: [if (if (it.isDynamicGlobalScope))<globalAttributeScopeClass(scope=it)>]<endif>>

<if (grammar.directDelegates)> # path hack to allow absolute import of related grammars.
from os.path import dirname
__path__ = [dirname(__file__)]
del dirname
<grammar.directDelegates: {
    [g]from .<g.recognizerName> import <g.recognizerName>}; separator="\n"
<endif>
<rules: [it]<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>]<>/
class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    grammarFileName = "<fileName>"
    api_version = <apiVersion()>
    tokenNames = tokenNames

    def __init__(self<grammar.delegators:{g, <g:delegateName()>}>, input, state=None, *args, **kwargs):
        if state is None:
            state = RecognizerSharedState()

        #@args()
super().__init__(input, state, *args, **kwargs)

@if(memoize)@
@if(grammar.grammarIsRoot)@
    self._state.ruleMemo = {}
@end@

@cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n"

<scopes:{it | <if(it.isDynamicGlobalScope)<globalAttributeScopeStack(scope=it)><endif>}>\n<rules:{it | <ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)>}>\n
<init>

<grammar.delegators:
    {g|self.<g:delegateName>() = <g:delegateName>()}; separator="\n"

<grammar.directDelegates:
    {g|self.<g:delegateName>() = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>,}>self, input,
        state)}; separator="\n"

<grammar.directDelegates:
    {g|<g.delegates:{h|self.<h:delegateName>() = self.<g:delegateName()>.<h:delegateName()>};
        separator="\n">}; separator="\n"

@last(grammar.delegators):
    {g|self.gParent = self.<g:delegateName()}>; separator="\n"

self.delegates = [{grammar.delegates: {g|self.<g:delegateName()>}; separator = ", "}]

@@init@@end

@@members@@end

<members>

<rules; separator="\n\n"高于 1.5.14版本的迁移步骤

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n"

<synpreds:{p | <synpred(p)>}> \n
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{it | FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{it |
    <it>};separator="", "}]<\n>

>>
delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope()>):
   if(ruleDescriptor.hasReturnValue) return
   self.<ruleDescriptor.grammar.delegationName>().<ruleDescriptor.name>(<ruleDescriptor.parameterScope>)
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, 
   ASTLabelType="Object", superClass="Parser", labelType="Token", 
   members={<actions.parser.members>}, 
   init={<actions.parser.init>}
) ::= <<
genParser(grammar, name, scopes, tokens, tokenNames, rules, numRules, 
   bitsets, "TokenStream", superClass, 
   labelType, members, "Token", 
   false, init, ASTLabelType)>
>>

/** How to generate a tree parser; same as parser except the input stream is a different type. */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, 
   numRules, bitsets, filterMode, labelType={ASTLabelType}, labelType="Object", 
   superClass={if(filterMode) (<if(buildAST) TreeRewriter<else>TreeFilter<endif>) <else>TreeParser<endif>}, 
   members={<actions.treeparser.members>}, 
   init={<actions.treeparser.init>}
) ::= <<
genParser(grammar, name, scopes, tokens, tokenNames, rules, numRules, 
   bitsets, "TreeNodeStream", superClass, 
   labelType, members, "Node", 
   filterMode, init, ASTLabelType)>
>>

/** A simpler version of a rule template that is specific to the imaginary rules created for syntactic predicates. As they never have return values nor parameters etc..., just give simplest possible method. Don't do any of the normal memoization stuff in here either; it's a waste. As predicates cannot be inlined into the invoking rule, they need to be in a rule by themselves. */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
   # $ANTLR start "$ruleName"
   def <ruleName>._fragment(self, <ruleDescriptor.parameterScope:parameterScope()>):
      <ruleLabelDefs()>
<if(trace)>
    self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
    try:
        <block>
        finally:
            self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)
    <else>
    <block>
    <endif>
    # $ANTLR end "<ruleName>"

    >>>

    synpred(name) ::= <<
def <name>(self):
    self._state.backtracking += 1
    #@start()
    start = self.input.mark()
    try:
        self.<name>_fragment()
    except BacktrackingFailed:
        success = False
    else:
        success = True
    self.input.rewind(start)
    #@stop()
    self._state.backtracking -= 1
    return success

    >>>

    lexerSynpred(name) ::= <<
    <synpred(name)>
    >>>

    ruleMemoization(name) ::= <<
    #if(memoize)
    if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
        # for cached failed rules, alreadyParsedRule will raise an exception
        success = True
        return <ruleReturnValue()>
    <endif>
    >>>
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
    <if(backtracking)>
    if self._state.backtracking > 0:
        raise BacktrackingFailed
    <endif>
>>

/** How to generate code for a rule.  This includes any return type
*  data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
    <returnScope(scope=ruleDescriptor.returnScope)>
    # $ANTLR start "<ruleName>"
    # <fileName>:<description>
    <ruleDescriptor.actions.decorate>
    def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
    <if(trace)>
        self.traceIn("<ruleName>", <ruleDescriptor.index>)
    <endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    #@preamble()
    #@body><ruleBody()><@end>
    #@postamble()
    return <ruleReturnValue()>

    # $ANTLR end "<ruleName>"
>>

ruleBody() ::= <<
    <if(memoize)>
    <if(backtracking)>
    success = False
    <endif>
    try:
    try:
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp()>
        <(ruleDescriptor.actions.after):execAction()>
        </(ruleDescriptor.actions.after):execAction()>
        </block>
    </ruleCleanUp()>
    </ruleMemoization(name=ruleName)>
    </if(memoize)>
    </if(backtracking)>
    success = False
    <endif>
    <endif>
    try:
        try:
            <ruleMemoization(name=ruleName)>
            <block>
            <ruleCleanUp()>
            <(ruleDescriptor.actions.after):execAction()>
            </(ruleDescriptor.actions.after):execAction()>
            </block>
        </ruleCleanUp()>
        </ruleMemoization(name=ruleName)>
        </try:
        </try:>
catch(decl,action) ::= <<
except <e.decl>:
  <e.action>
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)
  retval = self.<ruleDescriptor.name>_return()
  retval.start = self.input.LT(1)<\n
@if(!emptyRule)
  actions.(actionScope).rulecatch
<<
except RecognitionException as re:
  self.reportError(re)
  self.recover(self.input, re)
  @@setErrorReturnValue()>

finally:
  pass
>>
<<
<ruleDescriptor.name>_StartIndex = self.input.index()
<endif>
>>

ruleScopeSetUp() ::= <
<ruleDescriptor.useScopes:{it | self.<it>_stack.append(<it>_scope())}; separator="\n">
<ruleDescriptor.ruleScope:{it | self.<it.name>_stack.append(<it.name>_scope())}; separator="\n">
>>

ruleScopeCleanUp() ::= <
<ruleDescriptor.useScopes:{it | self.<it>_stack.pop()}; separator="\n">
<ruleDescriptor.ruleScope:{it | self.<it.name>_stack.pop()}; separator="\n">
>>

ruleLabelDefs() ::= <
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it | <it.label.text> = None}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.wildcardTreeListLabels]
: {it | list_<it.label.text> = None}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:{it | <it.label.text> = None}; separator="\n">
>>

lexerRuleLabelDefs() ::= <
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it | <it.label.text> = None}; separator="\n"
>
<ruleDescriptor.charLabels:{it | <it.label.text> = None}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it | list_<it.label.text> = None}; separator="\n"
>
>>

ruleReturnValue() ::= <
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>

retval
<endif>
<endif>
<endif>
%

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = self.input.LT(-1)<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if self._state.backtracking > 0:
    self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 *  fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start "<ruleName>"
def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
<if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<if(memoize)>
<if(backtracking)>
    success = False<\n>
<endif>
<endif>
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><\n
<else>
    _type = <ruleName>
```python
_channel = DEFAULT_CHANNEL

<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
self._state.type = _type
self._state.channel = _channel
<(ruleDescriptor.actions.after):execAction()>
<endif>
<if(memoize)>
<if(backtracking)>
    success = True
<endif>
<endif>

finally:
<if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)
<endif>
    <ruleScopeCleanUp()>
    <memoize()>
    pass

# $ANTLR end "<ruleName>" "

>>

/** How to generate code for the implicitly-defined lexer grammar rule *
  * that chooses between lexer rules.
  */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
    <block>

>>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>::<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@body><blockBody()><@end>
```
blockBody() ::= <<
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<@prebranch()>
<alts:{a | <altSwitchCase(i, a)>}; separator="\nel"> 
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>::<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<alts:{a | <altSwitchCase(i, a)>}; separator="\nel"> 
<@postbranch()>
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>::<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>::<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>::<description>
cnt<decisionNumber> = 0
<decls>
<@preloop()>
<@loopBody>
<positiveClosureBlockLoop()>
>>
positiveClosureBlockLoop() ::= <<
while True: #loop<decisionNumber>
  alt<decisionNumber> = <maxAlt>
  @@predecision()@
  @@decisionBody@@@decision@@@end
  @@postdecision()@
  <alts:{a | <altSwitchCase(i, a)> }; separator="\nel"> else:
    if cnt<decisionNumber> >= 1:
      break #loop<decisionNumber>
    <ruleBacktrackFailure()>
    eee = EarlyExitException<decisionNumber>, self.input
    @@earlyExitException()@
    raise eee

  cnt<decisionNumber> += 1
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (...) block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  <decls>
  @@preloop()@
  @@loopBody@  
  <closureBlockLoop()>
  @@end@  
  @@postloop()@
>>
closureBlockLoop() ::= <<
while True: #loop<decisionNumber>
  alt<decisionNumber> = <maxAlt>
  @@predecision()@
  @@decisionBody@@@decision@@@end
  @@postdecision()@
  <alts:{a | <altSwitchCase(i, a)> }; separator="\nel"> else:
    break #loop<decisionNumber>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation *
 * so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative *
 * number. A DFA predicts the alternative and then a simple switch *
 * does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum,alt) ::= <<
if alt<decisionNumber> == <altNum>:
    <@prealt()>
    <alt>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
# <fileName>:<description>
pass <! so empty alternatives are a valid block !>
<@declarations()> 
<elements:element()> 
<rew>
<@cleanup()> 
>>

/** What to emit when there is no rewrite. For auto build *
 * mode, does nothing. */
noRewrite(rewriteBlockLevel,treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
<@prematch()>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
@if(label)<label> = <endif>self.match(self.input, <token>,
self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>
/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, label)>
>>
listLabel(label, elem) ::= <<
if list_<label> is None:
list_<label> = []
list_<label>.append(<elem>)<\n>
>>
/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.match(<char>)
>>
/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchRange(<a>, <b>)
>>
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
if <s>:
self.input.consume()
<postmatchCode>
<if(!LEXER)>
self._state.errorRecovery = False<\n>
<endif>
else:
<ruleBacktrackFailure()>
mse = MismatchedSetException(None, self.input)
<@mismatchedSetException()>
<if(LEXER)>
self.recover(mse)
raise mse
<else>

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raise mse
<! use following code to make it recover inline; remove throw mse;
self.recoverFromMismmatchedSet(  
    self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
)
!>
<endif>
</u>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<label>(label, label)
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
<label>Start = self.getCharIndex()
self.match(<string>)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
    start=<label>Start, stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.match(<string>)
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<a
<endif>
self.matchAny()
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<wildcard(...)>
<label>(label,label)
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<label>Start<elementIndex> = self.getCharIndex()
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator="", ">)<
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(
  input=self.input,
  type=INVALID_TOKEN_TYPE,
  channel=DEFAULT_CHANNEL,
  start=<label>Start<elementIndex>,
  stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
>>
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
<lexerRuleRef(rule, label, args, elementIndex, scope)>
<listLabel(label, label)>
>>

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
<label>Start<elementIndex> = self.getCharIndex()
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
self.match(EOF)
<label> = <labelType>(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.match(EOF)
<endif>
>>

// used for left-recursive rules
recRuleDefArg()                       ::= "<recRuleArg()>>
recRuleArg()                          ::= "_p"          
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> \= <opPrec>
recRuleSetResultAction()              ::= "root_0 = $<ruleName>_primary.tree"
recRuleSetReturnAction(src, name)     ::= "$<name> = $<src>.<name>"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, 
    enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
<else>
    self.match(self.input, DOWN, None)
    <children:element()>

<else>
self.match(self.input, DOWN, None)
<children:element()>

<endif>
self.match(self.input, UP, None)
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if not (<evalPredicate(pred, description)>):
   <ruleBacktrackFailure()>
   raise FailedPredicateException(self.input, "<ruleName>", ",<description>")
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\el">
else:
   <if(eotPredictsAlt)>
      alt<decisionNumber> = <eotPredictsAlt>
   <else>
      <ruleBacktrackFailure()>
      nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)
      <@noViableAltException()>
      raise nvae
   <endif>
>>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\el">
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
>>
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```c
<edges; separator="\n"> <if(eotPredictsAlt)> <if(!edges)> alt<decisionNumber> = <eotPredictsAlt> <!-- if no edges, don't gen ELSE -->
<else>
  alt<decisionNumber> = <eotPredictsAlt>
</if>
</endif>
<endif> >>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
  * enter to the target state. To handle gated productions, we may
  * have to evaluate some predicates for this edge.
  */
dfaEdge(labelExpr, targetState, predicates) ::= 
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
  <targetState>
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
  * decides if this is possible: CodeGenerator.canGenerateSwitch().
  */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= 
<fixme this is one of the few occasion, where I miss a switch statement
in Python. ATM this is implemented as a list of if .. elif ..
This may be replaced by faster a dictionary lookup, when I find a solution
for the cases when an edge is not a plain dfaAcceptState.
>
LA<decisionNumber> = self.input.LA(<k>) <edges; separator="\n"> else:
<if(eotPredictsAlt)>
  alt<decisionNumber> = <eotPredictsAlt>
<else>
  <ruleBacktrackFailure()>
  nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<
  @noViableAltException()>
  raise nvae<
<endif>
```
>>
dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\nel">
>>
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\nel">
<if(eotPredictsAlt)>
else:
alt<decisionNumber> = <eotPredictsAlt>
<endif>
>>
dfaEdgeSwitch(labels, targetState) ::= <<
if LA<decisionNumber> in {<labels; separator=", ">}:
<targetState>
>>
// C y c l i c D F A
/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>
/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>
DFA<dfa.decisionNumber>_eot = DFA.unpack(
"<dfa.javaCompressedEOT; wrap="\"\n \"">"
)
DFA<dfa.decisionNumber>_eof = DFA.unpack(
"<dfa.javaCompressedEOF; wrap="\"\n \"">"

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DFA<dfa.decisionNumber>._min = DFA.unpack("<dfa.javaCompressedMin; wrap="" >"
"")

DFA<dfa.decisionNumber>._max = DFA.unpack("<dfa.javaCompressedMax; wrap="" >"
"")

DFA<dfa.decisionNumber>._accept = DFA.unpack("<dfa.javaCompressedAccept; wrap="" >"
"")

DFA<dfa.decisionNumber>._special = DFA.unpack("<dfa.javaCompressedSpecial; wrap="" >"
"")

DFA<dfa.decisionNumber>._transition = [<dfa.javaCompressedTransition:{s|DFA.unpack("<s; wrap="" >")}; separator="" >
""]

# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
    pass

<@errorMethod()>

@if(dfa.specialStateSTs)>
    def specialStateTransition(self_, s, input):
        # convince pylint that my self_ magic is ok ;)
        # pylint: disable-msg=E0213

        # pretend we are a member of the recognizer
        # thus semantic predicates can be evaluated
        self = self_.recognizer

        _s = s

        <dfa.specialStateSTs:{state | if s == <i0>: <! compressed special state numbers 0..n-1 !>
        <state> }; separator="" >

        <if(backtracking)>
            if self_.state.backtracking > 0:
                raise BacktrackingFailed
nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)
self_.error(nvae)
raise nvae

>>>
cyclicDFAInit(dfa) ::= <<
self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
    self, <dfa.decisionNumber>,
    eot = self.DFA<dfa.decisionNumber>_eot,
    eof = self.DFA<dfa.decisionNumber>_eof,
    min = self.DFA<dfa.decisionNumber>_min,
    max = self.DFA<dfa.decisionNumber>_max,
    accept = self.DFA<dfa.decisionNumber>_accept,
    special = self.DFA<dfa.decisionNumber>_special,
    transition = self.DFA<dfa.decisionNumber>_transition
)

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 *  state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = input.LA(1)
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = input.index()
input.rewind()<
<endif>
s = -1
<edges; separator="nel">  
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)
<endif>
if s >= 0:
    return s

/** Just like a fixed DFA edge, test the lookahead and indicate what
 *  state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if (<labelExpr>)<if(predicates)> and (<predicates>)<endif>:
    s = <targetStateNumber>

/** An edge pointing at end-of-token; essentially matches any char;
/* always jump to the target. */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
se:
  s = <targetStateNumber><\n>
>>

// D F A   E X P R E S S I O N S

andPredicates(left, right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "(<operands; separator=\" or \">")"

notPredicate(pred) ::= "not (<evalPredicate(pred, {})>"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "self.<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly. */

isolatedLookaheadTest(atom, k, atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <%
  (<lower> <= LA<decisionNumber>_<stateNumber> <= <upper>)
%>

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "(<lower> <=
  self.input.LA(<k>) <= <upper>)"

lookaheadSetTest(values, k, valuesAsInt) ::= <%
LA<decisionNumber>_<stateNumber> in {<values; separator=", "} %>

isolatedLookaheadSetTest(values, k, valuesAsInt) ::= <%
self.input.LA(<k>) in {<values; separator=", "} %>

lookaheadVarName(k) ::= "LA<decisionNumber>_<stateNumber>"

isolatedLookaheadVarName(k) ::= "self.input.LA(<k>)"

setTest(ranges) ::= "<ranges; separator=\" or \">"

// A T T R I B U T E S
globalAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">
<endif>
<endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []
<endif>
<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">
<endif>
<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []
<endif>
<endif>
>>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
>>
returnStructName(r) ::= "<r.name>_return"

/** Define a return struct for a rule if the code needs to access its * start/stop tokens, tree stuff, attributes, ... Leave a hole for * subgroups to stick in members. */
returnScope(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)>
class <ruleDescriptor:returnStructName>()(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
def __init__(self):
    super().__init__()
@if(scope)><scope.attributes:{it | self.<it.decl> = None}; separator="\n"><endif>
    #@ruleReturnInit()
@if(scope)><scope.attributes:{it | self.<it.decl>}; separator=", "><endif>
    #@ruleReturnMembers()
<endif>>

parameterScope(scope) ::= <<
@if(scope)><scope.attributes:{it | <it.decl>}; separator=", "><endif>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
@if(negIndex)>
    self.<scope>_stack[-<negIndex>].<attr.name>
@else>
    self.<scope>_stack[<index>].<attr.name>
@else>
    self.<scope>_stack[-1].<attr.name>
@endif>
@endif>

/* not applying patch because of bug in action parser!
@if(negIndex)>
    ((len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>].<attr.name>] or [None])[0]
@else>
    ((<index> <= len(self.<scope>_stack)) and [self.<scope>_stack[<index>].<attr.name>] or [None])[0]
@else>
/*

scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <%
  if(negIndex)
    self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
  else
    if(index)
      self.<scope>_stack[<index>].<attr.name> = <expr>
    else
      self.<scope>_stack[-1].<attr.name> = <expr>
  %>

/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}? 
 */
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <%
  if(referencedRule.hasMultipleReturnValues)
    ((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
  else
    <scope>
  %>

returnAttributeRef(ruleDescriptor, attr) ::= <%
  if(ruleDescriptor.hasMultipleReturnValues)
    retval.<attr.name>
  else
    <attr.name>
  %>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <%
  if(ruleDescriptor.hasMultipleReturnValues)
    retval.<attr.name> = <expr>
  else
    <attr.name> = <expr>

*/
/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
((<scope> is not None) and [self.input.getTokenStream().toString(
    self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
) or [None])[0]
<else>
((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)] or [None])[0]
<endif>
%
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.st] or [None])[0]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or
[0])[0]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> is not None) and [<scope>.index] or [0])[0]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> is not None) and [<scope>.text] or [None])[0]"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"
// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop" // mmm... or input.LT(-1)??
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
    <if(backtracking)>
    <if(actions.(actionScope).synpredgate)>
    if <actions.(actionScope).synpredgate>:
        pass
        <action>
    <else>
    if <actions.(actionScope).synpredgate>:
        pass
        <action>
    <endif>
    <else>
    #action start
    <action>
    #action end
    <endif>
>>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"
// M I S C (properties, etc...)

codeFileExtension() ::= ".py"

true_value() ::= "True"
false_value() ::= "False"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/jar/org/antlr/codegen/templates/Python3/Python3.stg

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 */

/** Templates for building ASTs during tree parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<if(!ruleDescriptor.isSynPred)>
<ASTLabelType> _first_0 = default(<ASTLabelType>);
<ASTLabelType> _last = default(<ASTLabelType>);
<endif>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(rewriteMode)>
retval.Tree = (<ASTLabelType>)_first_0;
    retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
<endif>
<if(backtracking)>}<endif>
<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = default(<ASTLabelType>);
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<endif>
_root:element()>
<if(rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(root.el.rule)>
if (_first_.enclosingTreeLevel == null) _first_.enclosingTreeLevel = <root.el.label>.Tree;
<else>
if (_first_.enclosingTreeLevel == null) _first_.enclosingTreeLevel = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)> if (input.LA(1) == TokenTypes.Down) {
  Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
  <children:element()>
  Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
} <else>
  Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
  <children:element()>
  Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)> adaptor.AddChild(root_.enclosingTreeLevel, root_.treeLevel); <endif>
_last = _save_last.treeLevel; 
<else>
<super.tree(...)>
<endif>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add * setting of _last */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<endif>
if (terminalOptions.node) {
  terminalOptions.node(_tree = new
              terminalOptions.type, <label> <if(terminalOptions.text)
              , terminalOptions.text; format="string"> <endif>);
  } else {
  _tree = (ASTLabelType) adaptor.DupNode(<label> <if(terminalOptions.type)
              , terminalOptions.type>, <endif> <label> <if(terminalOptions.text)
              , terminalOptions.text; format="string"> <endif>);
  }
  adaptor.AddChild(root_<treeLevel>, _tree);
} if (backtracking) {
  _tree = new
  } else {
    _tree = (ASTLabelType) adaptor.DupNode(<if(terminalOptions.type)
              , terminalOptions.type>, <endif> <label> <if(terminalOptions.text)
              , terminalOptions.text; format="string"> <endif>);
  }
  adaptor.AddChild(root_<treeLevel>, _tree);
} if (backtracking) {
  if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
  }
  _first_<treeLevel> = (ASTLabelType) adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
} if (backtracking) {

/** label+-TOKEN auto construct **/ 
  if (!ruleDescriptor.isSynPred) {
    tokenRef(...)
  }
  _last = (<ASTLabelType>) input.LT(1);
  super.tokenRef(...)
  } if (backtracking) {
    if (_actions.(actionScope).synpredgate) {
      }
  }
  if (terminalOptions.node) {
    _tree = new
  }
  } else {
    _tree = (ASTLabelType) adaptor.DupNode(<if(terminalOptions.type)
              , terminalOptions.type>, <endif> <label> <if(terminalOptions.text)
              , terminalOptions.text; format="string"> <endif>);
  }
  adaptor.AddChild(root_<treeLevel>, _tree);
} if (backtracking) {

/** ^(ID ...) auto construct */
  if (!ruleDescriptor.isSynPred) {
    tokenRef(...)
  }
  _last = (<ASTLabelType>) input.LT(1);
  super.tokenRef(...)
  } if (backtracking) {
    if (_actions.(actionScope).synpredgate) {
      }
  }
  if (terminalOptions.node) {
    _tree = new
  }
  } else {
    _tree = (ASTLabelType) adaptor.DupNode(<if(terminalOptions.type)
              , terminalOptions.type>, <endif> <label> <if(terminalOptions.text)
              , terminalOptions.text; format="string"> <endif>);
  }
  adaptor.AddChild(root_<treeLevel>, _tree);
} if (backtracking) {

  }}
/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
tokenRefRuleRoot(...);
<listLabelElem(elem=label,...)>
<else>
tokenRefRuleRootAndListLabel(...);
<endif>
<endif>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
tokenRefRuleRoot(...);
<super.wildcard(...)>
<if(!rewriteMode)>
if (<actions.(actionScope).synpredgate>) {
_labels._tree = (<ASTLabelType>)adapter.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}
else<! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.wildcard(...)
<endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
tokenRefRuleRoot(...);
<super.matchSet(postmatchCode=
<if(!rewriteMode)>
if (<actions.(actionScope).synpredgate>) {
if(terminalOptions.node)>
<label>._tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.type>,<terminalOptions.type>,<endif><label><if(terminalOptions.text; format="string">)
<if(backtracking)>if (<actions.(actionScope).synpredgate>)
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.wildcard(...)
<endif>
>>
<label>_tree =
(<ASTLabelType>)adapter.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif> <label><i><if(terminalOptions.text)>,<terminalOptions.text; format="string">;<endif>;</i></label><endif>);
<endif></n>
adapter.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)></i></n>
<endif>
}

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<if(!ruleDescriptor.isSynPred)>
<matchSet(...)>
<_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
<else>
<super.matchSetBang(...)>
<endif>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
Last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
<else>
<super.matchSetBang(...)>
<endif>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(!ruleDescriptor.isSynPred)>
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif> <label><if(terminalOptions.text)>,<terminalOptions.text; format="string">;<endif>);
<else>
<label>_tree =
(<ASTLabelType>)adapter.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif> <label><i><if(terminalOptions.text)>,<terminalOptions.text; format="string">;<endif>;</i></label><endif>);
<endif></n>
root_<treeLevel> = (<ASTLabelType>)adapter.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)></i></n>
<endif>
<endif>
}, ...

<else>
<super.matchSetRuleRoot(...)>
<endif>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(!rewriteMode)>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>.Tree;
<else> <! rewrite mode !>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>.Tree;
<endif>
<else>
<super.ruleRef(...)>
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabelElem(elem={ <label>.Tree },...)>>
<else>
<super.ruleRefAndListLabel(...)>
<endif>
>>

/** ^(rule ... ) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>
<else>
<super.ruleRefRuleRoot(...)>
<endif>

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/** (x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <ruleRefRuleRoot(...)>
    <listLabelElem(elem={label}.Tree,...)>
  <else>
    <super.ruleRefRuleRootAndListLabel(...)>
  <endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (ASTLabelType)input.LT(1);  
    <super.ruleRefTrack(...)>
  <else>
    <super.ruleRefTrack(...)>
  <endif>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (ASTLabelType)input.LT(1);
    <super.ruleRefTrack(...)>
  <else>
    <super.ruleRefTrack(...)>
  <endif>
>>

/** (rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (ASTLabelType)input.LT(1);
    <super.ruleRefRootTrack(...)>
  <else>
    <super.ruleRefRuleRootTrack(...)>
  <endif>
>>

/** (x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (ASTLabelType)input.LT(1);
    <super.ruleRefRuleRootTrack(...)>
  <else>
    <super.ruleRefRuleRootTrackAndListLabel(...)>
  <endif>
>>
/** Streams for token refs are tree nodes now; override to
* change NextToken to NextNode.
*/
createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif>stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
%>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!ruleDescriptor.isSynPred)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)}<endif>
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp2/ASTTreeParser.stg
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*/

csharpVisibilityMap ::= [
  "private":"private",
  "protected":"protected",
  "public":"public",
  "fragment":"private",
  default:"private"
]

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer,
name, tokens, tokenNames, rules, cyclicDFAs,
bistsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals) ::= <<
  //-----------------------------------------------
  //\<auto-generated>
  // This code was generated by a tool.
  // ANTLR Version: <ANTLRVersion>
  //
  // Changes to this file may cause incorrect behavior and will be lost if
  // the code is regenerated.
  //\</auto-generated>
  //-----------------------------------------------

  // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

  // The variable 'variable' is assigned but its value is never used.
#pragma warning disable 219
// Unreachable code detected.
#pragma warning disable 162
// Missing XML comment for publicly visible type or member 'Type_or_Member'
#pragma warning disable 1591
// CLS compliance checking will not be performed on 'type' because it is not visible from outside this assembly.
#pragma warning disable 3019

<actions.(actionScope).header>

<@imports>
using System.Collections.Generic;
using Antlr.Runtime;
using Antlr.Runtime.Misc;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
<endif>
<@end>
<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>
<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
} // namespace <actions.(actionScope).namespace>
<endif>

>>

lexerInputStreamType() ::= <<
<actions.(actionScope).inputStreamType; null="ICharStream">>

>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
superClass={<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Lexer
<endif>},
   rewriteElementType=[], ASTLabelType={}) ::= <<
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
<@superClassName><superClass><@end>
{
<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n"
<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}}
<actions.lexer.members>
// delegates
<grammar.delegates:
    {g|private <g.recognizerName> <g:delegateName()>;}; separator="\n"
// delegators
<grammar.delegators:
    {g|private <g.recognizerName> <g:delegateName()>;}; separator="\n"
<last(grammar.delegators):{g|private <g.recognizerName> gParent;}>

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>()<! needed by subclasses !>
    {
        OnCreated();
    }

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
    : this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g:delegateName()>}>))
    {
    }

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input,
    RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
    : base(input, state)
    {
        <if(memoize)>
            <if(grammar.grammarIsRoot)>
                state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1]; \n<! index from 1..n !>
            <endif>
        <endif>
        <grammar.directDelegates:
            {g|<g:delegateName()> = new <g.recognizerName>(input, this.state<trunc(g.delegators):{p|,
                <p:delegateName()> }, this);}; separator="\n"
        <grammar.delegators:
            {g|this.<g:delegateName>() = <g:delegateName>();}; separator="\n"
        <last(grammar.delegators):{g|gParent = <g:delegateName>();}>
        OnCreated();
    }
    public override string GrammarFileName { get { return "<fileName>"; } }

    <if(grammar.hasDelegates)>
    public override <lexerInputStreamType()> CharStream
    {
        get
        {
            return base.CharStream;
        }
        set
        {
    }
base.CharStream = value;
<grammar.directDelegates:
  {g|<g:delegateName>() = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName>()}>,
    this);}; separator="\n"
<grammar.delegators:
  {g|this.<g:delegateName>() = <g:delegateName>();}; separator="\n"
<last(grammar.delegators):{g|gParent = <g:delegateName>();}>
  }
  }

<if(grammar.delegates)>
public override void SetState(RecognizerSharedState state)
  {
  base.SetState(state);
  <grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n">
  }
  <endif>

<endif>
<if(filterMode)>
  <filteringNextToken()>
  <endif>

partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

<rules; separator="\n">

<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
  {
  base.InitDFAs();
  <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<trunc(dfa.specialStateSTs)>,
  SpecialStateTransition<dfa.decisionNumber><endif>);}; separator="\n">
  }
  <cyclicDFAs:cyclicDFA()> <!-- dump tables for all DFA -->
#endregion

}}
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
  * for matches. No error can be generated upon error; just rewind, consume
  * a token and then try again. backtracking needs to be set as well.
  * Make rule memoization happen only at levels above 1 as we start mTokens
  * at backtracking==1.
  */
filteringNextToken() ::= <<
public override IToken NextToken()
{
  while (true)
  {
    if (input.LA(1) == CharStreamConstants.EndOfFile)
    {
      IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default, input.Index, input.Index);
      eof.Line = Line;
      eof.CharPositionInLine = CharPositionInLine;
      return eof;
    }
    state.token = null;
    state.channel = TokenChannels.Default;
    state.tokenStartCharIndex = input.Index;
    state.tokenStartCharPositionInLine = input.CharPositionInLine;
    state.tokenStartLine = input.Line;
    state.text = null;
    try
    {
      int m = input.Mark();
      state.backtracking=1;<! means we won't throw slow exception !>
      state.failed=false;
      mTokens();
      state.backtracking=0;
      <! mTokens backtracks with synpred at backtracking==2
      and we set the synpredgate to allow actions at level 1. !>
      if (state.failed)
      {
        input.Rewind(m);
        input.Consume();<! advance one char and try again !>
      }
    }
    else
    {
      Emit();
      return state.token;
    }
  }
  catch (RecognitionException re)
  {
    // shouldn't happen in backtracking mode, but...
ReportError(re);
Recover(re);
}
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
    if (state.backtracking > 1)
    base.Memoize(input, ruleIndex, ruleStartIndex);
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    if (state.backtracking > 1)
    return base.AlreadyParsedRule(input, ruleIndex);
    return false;
}

>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="object") ::= <<
    [System.CLSCompliant(false)]
    <parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
    <@superClassName><superClass><@end>
    {<if(grammar.grammarIsRoot>)
    internal static readonly string[] tokenNames = new string[] {
        ",\"<invalid\\>\", ",\"<EOR\\>\", ",\"<DOWN\\>\", ",\"<UP\\>\", <tokenNames; separator=", \\">
    };<endif>
    <tokens:{it|public const int <it.name; format=id>=<it.type>;}; separator="\n">;
    <tokens>{it|public const int <it.name; format=id>=<it.type>;}; separator="\n">;
    </if(grammar.delegates)>
    // delegates
    <grammar.delegates: {
    [gp|private <g.recognizerName> <g.delegateName();]; separator="\n">;
    </gp>;
    </if(grammar.delegates)>

// delegators
<grammar.delegators:
{g|private <g.recognizerName> <g:delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|private <g.recognizerName> gParent;}>
<endif>

<if(grammar.delegates)>
public override void SetState(RecognizerSharedState state)
{
    base.SetState(state);
    <grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n">
}
<if(TREE_PARSER)>
public override void SetTreeNodeStream(ITreeNodeStream input)
{
    base.SetTreeNodeStream(input);
    <grammar.delegates:{g|<g:delegateName()>.SetTreeNodeStream(input);}; separator="\n">
}<if(TREE_PARSER)>
public override string[] TokenNames { get { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; } } public override string GrammarFileName { get { return "<fileName>"; } }

<members>
partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

#region Rules
<rules; separator="\n">
@endregion Rules

<if(grammar.delegatedRules)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
#region Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)>
<ruleDescriptor.name; format="id">(<ruleDescriptor.parameterScope:parameterScope()>) <!throws RecognitionException !>{ <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name;}}
</if(grammar.delegatedRules)>

#endregion Delegated rules

<insertSynpreds(synpreds)>

@if(cyclicDFAs)
#region DFA
<cyclicDFAs:{dfa | private DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>, SpecialStateTransition<dfa.decisionNumber> <endif> );}; separator="\n">
}

<cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>
#endregion DFA
@endif

@if(bitsets)
#region Follow sets
private static class Follow
{
    <bitsets:{it|<bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>}; separator="\n">
}
#endregion Follow sets
@endif

@endif

@genericParser.members() ::= <<
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
: this(input, new RecognizerSharedState<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
{
}
</actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
: base(input, state)
{
<if(grammar.directDelegates)>
grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>}>, this);}; separator="\n"
<endif>
<if(grammar.indirectDelegates)>
<grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;}; separator="\n">
<endif>
<if(grammar.delegators)>
<last(grammar.delegators):{g|gParent = <g:delegateName()>;}>
<endif>
<parserCtorBody()>
OnCreated();
}
>>

// imported grammars are 'public' (can't be internal because their return scope classes must be accessible)
parserModifier(grammar, actions) ::= <<
<if(grammar.grammarIsRoot)><actions.(actionScope).modifier; null="public"><else>public<endif>
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[length(grammar.allImportedRules)+1];
<i index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
ASTLabelType="object",
superClass=<<
<if(actions.(actionScope).superClass)>actions.(actionScope).superClass<else>Antlr.Runtime.Parser</endif>
>, labelType="IToken",
members=<<
<actions.parser.members>}) ::=
<genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken", filterMode=false, ...)>
>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
numRules, bitsets, filterMode, labelType=[<ASTLabelType>], ASTLabelType="object",
superClass=<<
if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter</endif><else>TreeParser</endif></endif>
>,
members=<<
<actions.treeparser.members>}) ::=
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", filterMode=false, ...)>
>>
/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc.... just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
partial void EnterRule_<ruleName>_fragment();
partial void LeaveRule_<ruleName>_fragment();

// $ANTLR start <ruleName>
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void
<bruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>)
{
<bruleLabelDefs(...)>
EnterRule_<ruleName>_fragment();
EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);
TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
try
{
<brlock>
}
finally
{
TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
LeaveRule_<ruleName>_fragment();
}

// $ANTLR end <ruleName>
>>

insertLexerSynpreds(synpreds) ::= <<
<brinsertSynpreds(synpreds)>
>>

insertSynpreds(synpreds) ::= <<
@if(synpreds>)
#region Synpreds
private bool EvaluatePredicate(System.Action fragment)
{
bool success = false;
state.backtracing++;
@start() try { DebugBeginBacktrack(state.backtracking);

//
Try
{
fragment();
}
catch (RecognitionException re)
{
System.Console.Error.WriteLine("impossible: "+re);
}
success = !state.failed;
input.Rewind(start);
} finally { DebugEndBacktrack(state.backtracking, success); }
<@stop()>
state.backtracking--;
state.failed=false;
return success;
}
#region Synpreds
@endregion

ruleMemoization(name) ::= <<
@if(memoize)
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (state.failed) <returnFromRule()><endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if (state.backtracking>0) {state.failed=true; <returnFromRule()>}<endif
>>

ruleWrapperMap ::= [
"bottomup":{<ruleWrapperBottomup()>},
"topdown":{<ruleWrapperTopdown()>},
default:""
]

ruleWrapperBottomup() ::= <<
@if(TREE_PARSER && filterMode)>
protected override <if(buildAST)>I AstRuleReturnScope<else>void<endif> Bottomup() { <if(buildAST)>return
<endif>bottomup(); }
@endif>
ruleWrapperTopdown() ::= <<
@if(TREE_PARSER && filterMode)
protected override <if(buildAST)>I AstRuleReturnScope<else>void<endif> Topdown() { <if(buildAST)>return <endif>topdown(); } <endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(ruleDescriptor.returnScope)>
partial void EnterRule_<ruleName>();
partial void LeaveRule_<ruleName>();
<ruleWrapperMap.(ruleName)>
// $ANTLR start "<ruleName>"
// <fileName>:<description>
[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)> <ruleName;format="id">(<ruleDescriptor.parameterScope:parameterScope()>)
{
EnterRule_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs(...)>
<ruleDescriptor.actions.init>
try { DebugEnterRule(GrammarFileName, "<ruleName>");
DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
@preamble()>
try
{
<ruleMemoization(name=ruleName)>
:block>
<ruleCleanUp()>
<ruleDescriptor.actions.after):execAction()>
}
@if(exceptions)>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><
}>}
@if(!emptyRule)>
@if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
@if(!emptyRule)>

catch (RecognitionException re) {
    ReportError(re);
    RecoverInput(re);
    @setErrorReturnValue()
}
@endErrorReturnValue()
@endIf
@endIf
@endIf
finally {
    TraceOut("<ruleName>", <ruleDescriptor.index>);
    LeaveRule("<ruleName>", <ruleDescriptor.index>);
    LeaveRule_<ruleName>();
    @memoize()
    <ruleScopeCleanUp>()
    @finally
}
DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
] finally { DebugExitRule(GrammarFileName, "<ruleName>"); }
@endPostamble()
@endreturnFromRule()><
>
// $ANTLR end "<ruleName>"

>>

// imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<
@if(grammar.grammarIsRoot)<csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>internal<endif>
>>

// imported grammars need to have public return scopes
returnScopeModifier(grammar,ruleDescriptor) ::= <<
@if(grammar.grammarIsRoot)<csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>public<endif>
>>

catch(decl,action) ::= <<
catch (<e.decl>)
{
    <e.action>
}
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(ruleDescriptor)> retval = new
}}
<returnType(ruleDescriptor)>(<if(ruleDescriptor.returnScope.attributes)>this<endif>);
retval.Start = (<labelType>)input.LT(1);
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> a.name; format="id"> = <if(a.initValue)><a.initValue><else><initValue(a.type)> <endif>;
}
<endif>
<if(memoize)>
int <ruleDescriptor.name>_StartIndex = input.Index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{it|<it>_stack.Push(new <it>_scope(this));<it>_scopeInit(<it>_stack.Peek());}; separator="\n">
<ruleDescriptor.ruleScope:{it|<it.name>_stack.Push(new <it.name>_scope(this));<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it|<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{it|<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();}; separator="\n">
>>

ruleLabelDefs(ruleDescriptor, labelType, ASTLabelType, rewriteElementType) ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels] :
{lt|<labelType> lt.label.text = default(<labelType>);}; separator="\n" >>
<ruleDescriptor.tokenListLabels
 {lt|List<lt.label.text> list_<lt.label.text> = null;}; separator="\n" >>
<ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
 {lt|List<ASTLabelType> list_<lt.label.text> = null;}; separator="\n" >>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n" >>
<ruleDescriptor.ruleListLabels:ruleLabelDef(); separator="\n" >>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
{lt|<labelType> lt.label.text = default(<labelType>);}; separator="\n" >>
<ruleDescriptor.charListLabels,
ruleDescriptor.charLabels]
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
  partial void EnterRule_<ruleName>();
  partial void LeaveRule_<ruleName>();

/* How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
EnterRule_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp()>
<ruleDeclarations()>
try
{
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<else>
int _type = <ruleName>;
int _channel = DefaultTokenChannel;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
LeaveRule_<ruleName>();
<ruleScopeCleanUp()>
<memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override void mTokens()
{
    <block><\n>
}
>>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>::<description>
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    try { DebugEnterSubRule(<decisionNumber>);}
    try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
    <decision>
    } finally { DebugExitDecision(<decisionNumber>); }
    <@postdecision()>
    <@prebranch()>
    switch (alt<decisionNumber>)
    {
    <alts:{a|<altSwitchCase(i,a)>}}
    }
    } finally { DebugExitSubRule(<decisionNumber>); }
    <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>::<description>
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
    <decision>
    } finally { DebugExitDecision(<decisionNumber>); }
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:{a|<altSwitchCase(i,a)>}}
    }
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>::<description>
    <decls>
    <@prealt()>

```
/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
    // <fileName>:<description>
    <decls>
    <@prealt()>
    DebugEnterAlt(1);
    <alts>
    <@postalts()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    int cnt<decisionNumber>=0;
    <decls>
    <@preloop()>
    try { DebugEnterSubRule(<decisionNumber>);
    while (true)
    {
    int alt<decisionNumber>=<maxAlt>;
    <@pred Decision()> try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
    <decision>
    } finally { DebugExitDecision(<decisionNumber>); }
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:{a|<altSwitchCase(i,a)>}>
    default:
    if (cnt<decisionNumber> >= 1)
    goto loop<decisionNumber>;

    <rulebacktrackFailure()>
    EarlyExitException eee<decisionNumber> = new EarlyExitException(<decisionNumber>, input);
    DebugRecognitionException(eee<decisionNumber>);
    <@earlyExitException()> throw eee<decisionNumber>;
    }
    cnt<decisionNumber>++;
    }
    loop<decisionNumber>:

    ;
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description>
<decls>
<!--@preloop()-->
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
  int alt<decisionNumber>=<maxAlt>;
  <!--@predecision()-->
  try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
  <decision>
  } finally { DebugExitDecision(<decisionNumber>); } <!--@postdecision()-->
  switch ( alt<decisionNumber> )
  {
    <alts:{a|<altSwitchCase(i,a)>}>
    default:
      goto loop<decisionNumber>;
  }
  }
loop<decisionNumber>:
;
} finally { DebugExitSubRule(<decisionNumber>); } <!--@postloop()-->
<!--@postloop()-->
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.

/*
altSwitchCase(altNum,alt) ::= <<
  case <altNum>:
    <$prealt()>
    DebugEnterAlt(<altNum>);
    <alt>
    break;
>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  // <fileName>:<description>
  {
    <$declarations()><elements:element()><rew>$<@cleanup()>}
} >>

/** What to emit when there is no rewrite.  For auto build */
* mode, does nothing.
*/
nRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(it) ::= <%
  <$prematch()> DebugLocation(<it.line>, <it.pos>);<
  <it.el><
  %>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  <$if(label)><$label>=(<$labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
  <$checkRuleBacktrackFailure()> >>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <$tokenRef(...)>
  <$listLabelElem(elem=label,elemType=labelType,...)> >>

listLabel(label,elem) ::= <<
#error The listLabel template should not be used with this target.

```java
listLabelElem(label,elem,elemType) ::= <<
if (list_<label>==null) list_<label>=new List\<<elemType; null={<labelType>}>>();
list_<label>.Add(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
@if(label)
<label> = input.LA(1);<@label>
@else
Match(<char>); <checkRuleBacktrackFailure>()
@endif
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
@if(label)
<label> = input.LA(1);<@label>
@else
MatchRange(<a>,<b>); <checkRuleBacktrackFailure>()
@endif
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,terminalOptions,elementIndex,postmatchCode="") ::= <<
@if(label)
@mail
@else
@ruleBacktrackFailure()
MismatchedSetException mse = new MismatchedSetException(null,input);
DebugRecognitionException(mse);
@else
throw mse;
@endif
rm>
```

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matchSetUnchecked(s,label,elementIndex,postmatchCode=false) ::= <%
<if(label)>
<matchSetLabel()><\n
input.Consume();<\n
<if(postmatchCode)>
<postmatchCode><\n
<endif>
<if(!LEXER)>state.errorRecovery=false;<endif><if(backtracking)>state.failed=false;<endif>
%>

matchSetLabel() ::= <%
<if(LEXER)>
<label> = input.LA(1);
<else>
<label> = (labelType)input.LT(1);
<endif>
%

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabelElem(elem=label,elemType=labelType,...)>>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <%
<if(label)>
int <label>Start = CharIndex;<\n
Match(<string>); <checkRuleBacktrackFailure()><\n
int <label>StartLine<elementIndex> = Line;<\n
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);<\n
<label>.Line = <label>StartLine<elementIndex>;<\n
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n
%>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>

wildcardAndListLabel(token, label, elementIndex, terminalOptions) ::= <<
<wildcard(...)> <listLabelElem(elem=label, elemType=labelType,...)> >>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)> <label> = input.LA(1);<\n> <endif>
MatchAny(); <checkRuleBacktrackFailure()> >>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabelElem(elem=label, elemType=labelType,...)> >>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule, label, elementIndex, args, scope) ::= <<
PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>); <if(label)> <label>=<endif> <if(scope)> <scope:delegateName()> ,<endif> <rule.name; format="id"> (<args; separator="",">); PopFollow(); <checkRuleBacktrackFailure()> >>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem=label, elemType=[<ASTLabelType>]....)> >>

/** A lexer rule reference.
* 
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()><\n>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
%>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
Match(EOF); <checkRuleBacktrackFailure()><\n>
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
%>
// used for left-recursive rules
recRuleDefArg()
::= "int <recRuleArg()>"
recRuleArg()
::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction()
::= "root_0=$<ruleName>_primary.tree;"
/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,

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enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1) == TokenTypes.Down)
{
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>)
{
<ruleBacktrackFailure()> 
throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_k = input.LA(<k>);
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()> throw nvae;
<endif>
}
>>
/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/

dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
* 1 loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/

dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt>;<! if no edges, don't gen ELSE !>
<else>
{
alt<decisionNumber> = <eotPredictsAlt>;
}<! \n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/

dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
 <targetState>
}
>>

// F i x e d  D F A  (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/

dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
  <edges; separator="\n">
  default:
  <if(eotPredictsAlt)>
  alt<decisionNumber>=<eotPredictsAlt>;
  break;<\n>
  <else>
  |
  <ruleBacktrackFailure()>
  NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input, <k>);
  DebugRecognitionException(nvae);
  <@noViableAltException()>
  throw nvae;
  }
  <endif>
  }
  \n  >>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
  <edges; separator="\n">
  >>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
  <edges; separator="\n">
  >>

dfaEdgeSwitch(labels, targetState) ::= <<
  <labels:{it|case <it>:}; separator="\n">
  |
  <targetState>
  }
  break:
// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

dfaDecision(decisionNumber,description) ::= <<
try
{
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
}
catch (NoViableAltException nvae)
{
DebugRecognitionException(nvae);
throw;
}
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
private class DFA<dfa.decisionNumber> : DFA
{
private const string DFA<dfa.decisionNumber>_eotS = "<dfa.javaCompressedEOT; wrap="\n\t"">";;
private const string DFA<dfa.decisionNumber>_eofS = "<dfa.javaCompressedEOF; wrap="\n\t"">";;
private const string DFA<dfa.decisionNumber>_minS = "<dfa.javaCompressedMin; wrap="\n\t"">";;
private const string DFA<dfa.decisionNumber>_maxS = "<dfa.javaCompressedMax; wrap="\n\t"">";;
private const string DFA<dfa.decisionNumber>_acceptS = "<dfa.javaCompressedAccept; wrap="\n\t"">";;
private const string DFA<dfa.decisionNumber>_specialS = "<dfa.javaCompressedSpecial; wrap="\n\t"">";;
private static readonly string[] DFA<dfa.decisionNumber>_transitionS =
{
<dfa.javaCompressedTransition:{s|"s"; wrap="\n\t"">; separator="\n"}>
};
>>
private static readonly short[,] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
private static readonly short[,] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
private static readonly char[,] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
private static readonly char[,] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
private static readonly short[,] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
private static readonly short[,] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private static readonly short[,][] DFA<dfa.decisionNumber>_transition;
static DFA<dfa.decisionNumber>()
{
    int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][,];
    for (int i = 0; i < numStates; i++)
    {
        DFA<dfa.decisionNumber>_transition[i] =
        DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
SpecialStateTransitionHandler specialStateTransition<endif> )
<if(dfa.specialStateSTs)>
    : base(specialStateTransition)
<endif>
{
    this.recognizer = recognizer;
    this.decisionNumber = <dfa.decisionNumber>;
    this.eot = DFA<dfa.decisionNumber>_eot;
    this.eof = DFA<dfa.decisionNumber>_eof;
    this.min = DFA<dfa.decisionNumber>_min;
    this.max = DFA<dfa.decisionNumber>_max;
    this.accept = DFA<dfa.decisionNumber>_accept;
    this.special = DFA<dfa.decisionNumber>_special;
    this.transition = DFA<dfa.decisionNumber>_transition;
}

public override string Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
}
private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input) throws NoViableAltException!
{
    IIntStream input = _input;
    ITokenStream input = (ITokenStream)_input;
    ITreeNodeStream input = (ITreeNodeStream)_input;
    int _s = s;
    s = -1;
    int LA<dfa.decisionNumber>_1 = input.LA(1);
    int index<dfa.decisionNumber>_1 = input.Index;
    switch (_s)
    {
        <dfa.specialStateSTs:{state |case <i0>:<! compressed special state numbers 0..n-1 !>
            <state>}; separator="\n">}

    default:
    break;
    
    if (s >= 0)
    return s;
    
    if(backtracking)
    if (state.backtracking > 0) {state.failed=true; return -1;}
    
    NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
    dfa.Error(nvae);
    throw nvae;
    }
    
    /** A state in a cyclic DFA; it's a special state and part of a big switch on
     * state.
     */
    cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
    
    }<\n
    <if(dfa.specialStateSTs)>

    <if(LEXER)>
    IIntStream input = _input;
    </if>
    <if(PARSER)>
    ITokenStream input = (ITokenStream)_input;
    </if>
    <if(TREE_PARSER)>
    ITreeNodeStream input = (ITreeNodeStream)_input;
    </if>

    int _s = s;
    s = -1;
    
    int LA<dfa.decisionNumber>_1 = input.LA(1);
    int index<dfa.decisionNumber>_1 = input.Index;
    switch (_s)
    {
        <dfa.specialStateSTs:{state |case <i0>:<! compressed special state numbers 0..n-1 !>
            <state>}; separator="\n">}
input.Rewind();
<endif>
<edges; separator="\nelse ">
<if(semPredState)>
<! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_1);
<endif>
break;
}
>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>) {s = <targetStateNumber>;}
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<
>>

// D F A  E X P R E S S I O N S

andPredicates(left,right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<operands; separator="||">)"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "EvaluatePredicate(<pred>_fragment)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_k==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_k<ge()>_<lower> && LA<decisionNumber>_k<le()>_<upper>)%
"
isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= 
"(input.LA(<k>)<ge>()<lower> && input.LA(<k>)<le>()<upper>)"

le() ::= "\<="
ge() ::= "\>="

setTest(ranges) ::= <<
<ranges; separator="||">
>>

// ATTRIBUTES

attributeScope(scope) ::= <<
<if(scope.attributes)>
protected sealed partial class <scope.name>_scope 
{
<scope.attributes:{it|public <it.decl>;}; separator="\n">
public <scope.name>_scope(<grammar.recognizerName> grammar) { OnCreated(grammar); }
partial void OnCreated(<grammar.recognizerName> grammar);
}
<if(scope.actions.scopeinit)>
protected void <scope.name>_scopeInit( <scope.name>_scope scope )
{
<scope.actions.scopeinit>
}
<else>
partial void <scope.name>_scopeInit( <scope.name>_scope scope );
<endif>
<if(scope.actions.scopeafter)>
protected void <scope.name>_scopeAfter( <scope.name>_scope scope )
{
<scope.actions.scopeafter>
}
<else>
partial void <scope.name>_scopeAfter( <scope.name>_scope scope );
<endif>
protected readonly ListStack<<scope.name>_scope> <scope.name>_stack = new
ListStack<<scope.name>_scope>();
<endif>
>>

globalAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

ruleAttributeScope(scope) ::= <<
returnStructName(it) ::= "<it.name>_return"

returnType(ruleDescriptor) ::= <%
<if(ruleDescriptor.returnScope.attributes && ruleDescriptor.hasMultipleReturnValue)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>;
<elseif(ruleDescriptor.hasMultipleReturnValue)>
<ruleReturnBaseType()>;
<elseif(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>;
<else>
void
<endif>
%>

/** Generate the C# type associated with a single or multiple return
*  values.
*/
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValue)>
<ruleReturnBaseType()>;
<elseif(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnTyp>;
<else>
void
<endif>
%>

delegateName(it) ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
<ruleLabelType(label.referencedRule)> <label.label.text> = <initValue(ruleLabelType(label.referencedRule))>;
%>

/** Define a return struct for a rule if the code needs to access its
*  start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.

*/

returnScope(scope) ::= <<
  <if(scope.attributes && ruleDescriptor.hasMultipleReturnValues)>
  <returnScopeModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> sealed partial class
  <ruleDescriptor:returnStructName()> : <ruleReturnBaseType()><@ruleReturnInterfaces()>
  {
  <scope.attributes:{it|public <it.decl>;}; separator="\n">
  <@ruleReturnMembers()>
  }
  <endif>
>>

ruleReturnBaseType() ::= <%
  <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<labelType>>
  %>

@returnScope.ruleReturnMembers() ::= <<
public <ruleDescriptor:returnStructName>()(grammar.recognizerName> grammar) {OnCreated(grammar);}
partial void OnCreated<grammar.recognizerName> grammar);
>>

parameterScope(scope) ::= <<
  <scope.attributes:{it[it.decl] }; separator="",">
>>

parameterAttributeRef(attr) ::= <<
  <attr.name; format="id">
>>

parameterSetAttributeRef(attr,expr) ::= <<
  <attr.name; format="id"> =<expr>; 
>>

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack[_scope>_stack.Count - <negIndex> - 1].<attr.name; format="id">
  <else>
  <if(index)>
  <scope>_stack[index].<attr.name; format="id">
  <else>
  <scope>_stack.Peek().<attr.name; format="id">
  <endif>
  <endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack[_scope>_stack.Count - <negIndex> - 1].<attr.name; format="id">
  <else>
  <if(index)>
  <scope>_stack[index].<attr.name; format="id">
  <else>
  <scope>_stack.Peek().<attr.name; format="id">
  <endif>
  <endif>
%>

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<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id"> = <expr>
<else>
<if(index)>
<scope>_stack[index].<attr.name; format="id"> = <expr>
<else>
<scope>_stack.Peek().<attr.name; format="id"> = <expr>
<endif>
<endif>
%

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {function.Count>0 & function::name.Equals("foo")}?
*/
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?((<returnType(referencedRule)>)<scope>).<attr.name; format="id">:<initValue(attr.type)>)
<else>
<scope>
<endif>
%
returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id">
<else>
<attr.name; format="id">
<endif>
%
returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id"> =<expr>;
<else>
<attr.name; format="id"> =<expr>;
<endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>

/** ids+=ID {ids} or e+=expr {e} */
listLabelRef(label) ::= "list_<label>"
// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "((scope)!null?(scope).Text:default(string))"
tokenLabelPropertyRef_type(scope,attr) ::= "((scope)!null?(scope).Type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "((scope)!null?(scope).Line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "((scope)!null?(scope).CharPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "((scope)!null?(scope).Channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "((scope)!null?(scope).TokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "scope_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "((scope)!null?.int.Parse(scope).Text:0)"

ruleLabelPropertyRef_start(scope,attr) ::= "((scope)!null?((<labelType>)scope.Start):default(<labelType>))"
ruleLabelPropertyRef_stop(scope,attr) ::= "((scope)!null?((<labelType>)scope.Stop):default(<labelType>))"
ruleLabelPropertyRef_tree(scope,attr) ::= "((scope)!null?((ASTLabelType)scope.Tree):default(ASTLabelType))"
ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
(scope)!null?input.TokenStream.ToString(  
input.TreeAdaptor.GetTokenStartIndex((scope).Start),  
input.TreeAdaptor.GetTokenStopIndex((scope).Start)):default(string))
<else>
<endif>
%>
ruleLabelPropertyRef_st(scope,attr) ::= "((scope)!null?scope.Template:0)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "label"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((scope)!null?scope.Type:0)"

lexerRuleLabelPropertyRef_line(scope,attr) ::= "((scope)!null?scope.Line:0)"

lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((scope)!null?scope.CharPositionInLine:-1)"

lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((scope)!null?scope.Channel:0)"

lexerRuleLabelPropertyRef_index(scope,attr) ::= "((scope)!null?scope.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope,attr) ::= "((scope)!null?scope.Text:default(string))"
lexerRuleLabelPropertyRef_int(scope, attr) ::= "(<scope> !=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "retval.Start"
rulePropertyRef_stop(scope, attr) ::= "retval.Stop"
rulePropertyRef_tree(scope, attr) ::= "retval.Tree"
rulePropertyRef_text(scope, attr) ::= <%
  <if(TREE_PARSER)>
    input.TokenStream.ToString(
      input.TreeAdaptor.GetTokenStartIndex(retval.Start),
      input.TreeAdaptor.GetTokenStopIndex(retval.Start))
  <else>
    input.ToString(retval.Start, input.LT(-1))
  <endif>
  %>
rulePropertyRef_st(scope, attr) ::= "retval.Template"

lexerRulePropertyRef_text(scope, attr) ::= "Text"
lexerRulePropertyRef_type(scope, attr) ::= "_type"
lexerRulePropertyRef_line(scope, attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope, attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope, attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope, attr) ::= "_channel"
lexerRulePropertyRef_start(scope, attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope, attr) ::= "((CharIndex-1))"
lexerRulePropertyRef_int(scope, attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.Template =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
  <if(backtracking)>
    if (<actions.(actionScope).synpredgate>)<
  <@indentedAction()><
  <endif>
  <else>
    <action>
  <endif>
  %>

@execAction.indentedAction() ::= <<
  <@action><
@>>
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] {<words64:{it}<UL};separator"," });
>>

codeFileExtension() ::= ".cs"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/CSharp3.stg
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*/
/** Templates for building ASTs during normal parsing. *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 * The situation is not too bad as rewrite (->) usage makes ^ and ! invalid. There is no huge explosion of combinations.
 */

finishedBacktracking(block) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
  <block>
<else>
  <block>
<endif>
<endif>
>>

@returnBody.setErrorReturnValue() ::= <<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...>>
<finishedBacktracking{
<label>_tree = <createNodeFromToken(...>
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= "<super.tokenRef(...)"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...>)
<finishedBacktracking{
<label>_tree = <createNodeFromToken(...>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>
/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token, label, elementIndex, terminalOptions={}) ::= <<
<tokenRefBang(…)> 
<listLabel(elem=label,…)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token, label, elementIndex, terminalOptions={}) ::= <<
<tokenRef(…)> 
<listLabel(elem=label,…)>
>>

/** Match label+=TOKEN\^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token, label, elementIndex, terminalOptions={}) ::= <<
<tokenRefRuleRoot(…)> 
<listLabel(elem=label,…)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don’t use the region stuff because I need to pass
// different chunks depending on the operator. I don’t like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus … The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s, label, elementIndex, postmatchCode, terminalOptions={}) ::= <%
<super.matchSet(postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(…)>)})}, ...)> %>

matchRuleBlockSet(s, label, elementIndex, postmatchCode, treeLevel="0", terminalOptions={}) ::= <<
<matchSet(…)> 
>>

matchSetBang(s, label, elementIndex, postmatchCode, terminalOptions={}) ::= "<super.matchSet(…)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|…|C)

matchSetRuleRoot(s, label, elementIndex, debug, terminalOptions={}) ::= <<
// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...>)
  <finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})>
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...>)
  <listLabel(label, [<label>.tree])>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...>)
  <listLabel(label, [<label>.tree])>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...>)
  <listLabel(label, [<label>.tree])>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
  <super.wildcard(...>)
  <finishedBacktracking({
    <label>_tree = self._adaptor.createWithPayload(<label>)
  })>
wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>">

wildcardRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...)>
<finishedBacktracking{
<label>_tree = self._adaptor.createWithPayload(<label>)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
}}>>

createNodeFromToken(label,terminalOptions={}) ::= <%
<if(terminalOptions.node)>
<terminalOptions.node>(<label>) <! new MethodNode(IDLabel) !>
<else>
self._adaptor.createWithPayload(<label>)
<endif>
%>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<finishedBacktracking{
retval.tree = self._adaptor.rulePostProcessing(root_0)
self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
}}>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python3/ASTParser.stg

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/*

/** Templates for building ASTs during tree parsing.
*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label  (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

finishedBacktracking(block) ::= <<
  <if(backtracking)>
  if <actions.(actionScope).synpredgate>:
    <block>
  <else>
    <block>
  <endif>
  >>

  /** Add a variable to track last element matched */
  ruleDeclarations() ::= <<
    <super.ruleDeclarations()>
    _first_0 = None
    _last = None
  >>

  /** What to emit when there is no rewrite rule. For auto build */
  noRewrite(rewriteBlockLevel, treeLevel) ::= <<
    <finishedBacktracking({

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<if(rewriteMode)>
retval.tree = _first_0
if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
    retval.tree = self._adaptor.getParent(retval.tree)
<endif>
})>
>>
/** match ^root children in tree parser; override here to
*  add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = self.input.LT(1)
    _save_last_<treeLevel> = _last
    _first_<treeLevel> = None
    <if(!rewriteMode)>
    root_<treeLevel> = self._adaptor.nil()\n    <endif>
    <root:element()>
    <if(rewriteMode)>
    <finishedBacktracking({
    <if(root.el.rule)>
    if _first_<enclosingTreeLevel> is None:
        _first_<enclosingTreeLevel> = <root.el.label>.tree\n    <else>
    if _first_<enclosingTreeLevel> is None:
        _first_<enclosingTreeLevel> = <root.el.label>\n    <endif>
    <actionsAfterRoot:element()>}
    <if(nullableChildList)>
    if self.input.LA(1) == DOWN:
        self.match(self.input, DOWN, None)
        <children:element()>}
    <else>
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)\n    <endif>
    <if(!rewriteMode)>
    self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>\n    <endif>
    _last = _save_last_<treeLevel>
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= <<
   _last = self.input.LT(1)
   <super.tokenRef(…)>}
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
   _last = self.input.LT(1)
   <super.tokenRef(…)>}
   <if(!rewriteMode)>
   <finishedBacktracking( {
   <if(terminalOptions.node)>
   <label>_tree = <terminalOptions.node>(<label>)
   <else>
   <label>_tree = self._adaptor.dupNode(<label>)
   <endif>
   self._adaptor.addChild(root_<treeLevel>, <label>_tree)
   })>
   <else> <! rewrite mode !>
   <finishedBacktracking( {
   if _first_<treeLevel> is None:
   _first_<treeLevel> = <label>
   })>
   <endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
   <tokenRef(…)>
   <listLabel(elem=label,…)>}
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
   <super.tokenRef(…)>
   <listLabel(elem=label,…)>}
>>

/** ^ID ... auto construct */
tokenRefRule(token,label,elementIndex,terminalOptions={}) ::= <<
   _last = self.input.LT(1)
   <super.tokenRef(…)>}
   <if(!rewriteMode)>
   <finishedBacktracking( {
   <if(terminalOptions.node)>
   <label>_tree = <terminalOptions.node>(<label>)
   <else>
   <label>_tree = self._adaptor.dupNode(<label>)
   <endif>
   self._adaptor.addChild(root_<treeLevel>, <label>_tree)
   })>
   <else> <! rewrite mode !>
   <finishedBacktracking( {
   if _first_<treeLevel> is None:
   _first_<treeLevel> = <label>
   })>
   <endif>
>>
```python
label>._tree = self._adaptor.dupNode(label>)

root_<treeLevel> = self._adaptor.becomeRoot(label>_tree, root_<treeLevel>)

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
	<tokenRefRuleRoot(...)>
	<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
	_last = self.input.LT(1)
	<super.wildcard(...)>
	<if(!rewriteMode)>
	<finishedBacktracking({
		<label>_tree = self._adaptor.dupTree(label>)
	self._adaptor.addChild(root_<treeLevel>, label>_tree)
	})>
	<else> <! rewrite mode !>
	<finishedBacktracking({
	if _first_<treeLevel> is None:
	_first_<treeLevel> = label>
	})>
	<endif>
>>

// SET AST
matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
	_last = self.input.LT(1)
	<super.matchSet(postmatchCode={
	<if(!rewriteMode)>
	<finishedBacktracking({
	<if(terminalOptions.node)>
	<label>_tree = terminalOptions.node>(label>)
	<else>
	<label>_tree = self._adaptor.dupNode(label>)
	<endif>
	<in>
	self._adaptor.addChild(root_<treeLevel>, label>_tree)
	})>
	<endif>
	}, ...)>
>>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
```
matchSet(s, label, elementIndex, postmatchCode, terminalOptions={}) ::= <<
    _last = self.input.LT(1)
    <super.matchSet(...)>  
    >>

matchSetRuleRoot(s, label, elementIndex, debug, terminalOptions={}) ::= <<
    <super.matchSet(postmatchCode={
        <if(!rewriteMode)>
        <finishedBacktracking({
            <if(terminalOptions.node)>
            <label>_tree = <terminalOptions.node>(<label>)
            <else>
            <label>_tree = self._adaptor.dupNode(<label>)
            <endif>
            root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
        })>
        <endif>
    }, ...)>
    >>

// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
    _last = self.input.LT(1)
    <super.ruleRef(...)>  
    <finishedBacktracking({
        <if(!rewriteMode)>
        self._adaptor.addChild(root_<treeLevel>, <label>.tree)
        <else> <! rewrite mode !>
        if _first_<treeLevel> is None:
            _first_<treeLevel> = <label>.tree
        <endif>
    })>
    >>

/** x+=rule auto construct */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
    <ruleRef(...)>
    <listLabel(label, {<label>.tree})>
    >>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule, label, elementIndex, args, scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>  
<if(!rewriteMode)>
<finishedBacktracking({
root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
})>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
</listLabel(label, {<label>.tree})>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrack(...)>  
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrackAndListLabel(...)> 
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefRuleTracK(...)>  
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to */
* change nextToken to nextNode. */
createRewriteNodeFromElement(token,scope,terminalOptions={}) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>

---

Open Source Used In Data Center Network Manager 11.5(1) 15393
ruleCleanUp() ::= «<super.ruleCleanUp()> <if(!rewriteMode)> <finishedBacktracking({
  retval.tree = self._adaptor.rulePostProcessing(root_0)
 })> <endif> »

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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python3/ASTTreeParser.stg
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 */
/** Templates for building ASTs during normal parsing.

* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/

@rule.setErrorReturnValue() ::= <<
retval.Tree = (<ASTLabelType>) adaptor.ErrorNode(input, retval.Start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions) ::= <%
<super.tokenRef(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)><
>if (state.backtracking == 0) {<endif>
<
><label>_tree = <createNodeFromToken(...)>
<
>adaptor.AddChild(root_0, <label>_tree)
<if(backtracking)><
>}<endif>
<endif>
<endif>
%
>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <%
<super.tokenRef(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)><
>if (<actions.(actionScope).synpredgate>) {<endif>
<
><label>_tree = <createNodeFromToken(...)>
<
>root_0 = (<ASTLabelType>) adaptor.BecomeRoot(<label>_tree, root_0)
<if(backtracking)><
>}<endif>
<endif>
<endif>
%
>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRef(...)>
  <listLabelElem(elem=label,elemType=labelType,...)> 
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabelElem(elem=label,elemType=labelType,...)> 
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
  <super.matchSet(postmatchCode={<if(!ruleDescriptor.isSynPred)<if(backtracking)>if
  (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);<endif>},
  ...)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)>
>>

matchSetBang(s,label,elementIndex,terminalOptions,postmatchCode) ::= "<super.matchSet(...)"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
  <if(label)>
  <label>=(<labelType>)input.LT(1);
  <endif>
  <super.matchSet(postmatchCode={<if(!ruleDescriptor.isSynPred)<if(backtracking)>if
  (<actions.(actionScope).synpredgate>) <endif>root_0 =
  <createNodeFromToken(...)}>),
  ...)>
>>
/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(!ruleDescriptor.isSynPred)>
    <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <label>.Tree);
    <endif>
  %>
/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>">
/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)>
  <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_0 =
  (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
  %>
/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>>
/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefBang(...)>
  <listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>>
/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>>
// WILDCARD AST
wildcard(token,label,elementIndex,terminalOptions) ::= <<
  <super.wildcard(...)>
  <if(!ruleDescriptor.isSynPred)>
    <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
      <label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)> }<endif>
<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.wildcard(...)
<if(!ruleDescriptor.isSynPred)
<if(backtracking)>if ( (actions.(actionScope).synpredgate) ) {<endif>
<label>_tree = (<ASTLabelType>) adaptor.Create(<label>);
root_0 = (<ASTLabelType>) adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)> }<endif>
<endif>
>>

createNodeFromToken(label,terminalOptions) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>)
<else>
(<ASTLabelType>) adaptor.Create(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>)
<endif>
%

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if ( (actions.(actionScope).synpredgate) ) {<endif>
retval.Tree = (<ASTLabelType>) adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.Tree, retval.Start, retval.Stop);
<if(backtracking)> }<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources.jar/org/antlr/codegen/templates/Sharp3/ASTParser.stg
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*/

/** Templates for building ASTs during tree parsing.
 *
* Deal with many combinations. Dimensions are:
*   Auto build or rewrite
*   no label, label, list label  (label/no-label handled together)
*   child, root
*   token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

/* addition memVars for returnscopes */
@ASTScopeInterface.memVars() ::= <<
/*ASTTreeParser returnScopeInterface.memVars */
<recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** the interface of returnScope methodsDecl */
@ASTScopeInterface.methodsDecl() ::= <<
/*ASTTreeParser returnScopeInterface.methodsDecl */
- (<recognizer.ASTLabelType; null="CommonTree"> *)getTree;
- (void) setTree:(<recognizer.ASTLabelType; null="CommonTree"> *)aTree;
>>

/** the implementation of returnScope methods */
@returnScope.methods() ::= <<

/* ASTTreeParser returnScope.methods */
- (<ASTLabelType> *)getTree
{
  return tree;
}

- (void)setTree:(<ASTLabelType> *)aTree
{
  if (tree != aTree) {
    if (tree != nil) [tree release];
    if (aTree != nil) [aTree retain];
    tree = aTree;
  }
}

- (void)dealloc
{
  [self setTree:nil];
  [super dealloc];
}

@synthesize tree;
>>

@returnScopeProperties() ::= <<
@property (retain) <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  /* ASTTreeParser ruleDeclarations */
  <super.ruleDeclarations()>
  <ASTLabelType> *_first_0 = nil;
  <ASTLabelType> *_last = nil;
>>

/** What to emit when there is no rewrite rule. For auto build * mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  /* ASTTreeParser noRewrite */
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(rewriteMode)>
    retval.tree = (<ASTLabelType> *)_first_0;
    if ( [treeAdaptor getParent:retval.tree] != nil && [treeAdaptor isNil:[treeAdaptor getParent:retval.tree]] )
      retval.tree = (<ASTLabelType> *)[treeAdaptor getParent:retval.tree];
  <endif>
  <if(backtracking)>}</endif>
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = (<ASTLabelType> *)[input LT:1];
{
    <ASTLabelType> *_save_last_<treeLevel> = _last;
    <ASTLabelType> *_first_<treeLevel> = nil;
    <if(!rewriteMode)>
    <ASTLabelType> *root_<treeLevel> = [[treeAdaptor class] newEmptyTree] retain;
    <endif>
    <root:element()>
    <if(rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
    <if(root.el.rule)>
    if ( _first_<enclosingTreeLevel>==nil ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
    <else>
    if ( _first_<enclosingTreeLevel>==nil ) _first_<enclosingTreeLevel> = <root.el.label>;
    <endif>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if ( [input LA:1] == TokenTypeDOWN ) { 
        [self match:input TokenType:TokenTypeDOWN Follow:nil]; <checkRuleBacktrackFailure()>
        <children:element()>
        [self match:input TokenType:TokenTypeUP Follow:nil]; <checkRuleBacktrackFailure()>
    }
    <else>
    [self match:input TokenType:TokenTypeDOWN Follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input TokenType:TokenTypeUP Follow:nil]; <checkRuleBacktrackFailure()>
    <endif>
    <if(!rewriteMode)>
    [treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
    <endif>
    _last = _save_last_<treeLevel>;
} <<

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
 * setting of _last
 */


tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRefBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...))
(if(!rewriteMode)  
(if(backtracking)if ( <actions.(actionScope).synpredgate> ) {<endif>
(if(terminalOptions.node))
  _tree = [terminalOptions.node] new<terminalOptions.node>::<label>];
  <endif>
  _tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];
  <endif>

 [treeAdaptor addChild:<label>_tree toTree:root_<treeLevel>];
  <if(backtracking)}>}<endif>
  <else> (! rewrite mode !)
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  if ( _first_<treeLevel>=nil ) _first_<treeLevel> = <label>;
  <endif>

>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRefAndListLabel */
tokenRef(...))
<listLabel(elem=label,...)>  
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex) ::= <<
/* ASTTreeParser tokenRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...))
(if(!rewriteMode)  
(if(backtracking)if ( <actions.(actionScope).synpredgate> ) {<endif>
(if(terminalOptions.node))
  _tree = [terminalOptions.node] new<terminalOptions.node>::<label>];
  <endif>
  _tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];
  <endif>

 root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_<treeLevel>];
  <if(backtracking)}>}]<endif>
  <endif>
/** Match ^label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRefRuleRootAndListLabel */
<label> <listLabel(elem=label,...)> >>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser wildcard */
_label = (<ASTLabelType> *)[input LT:1];
<super.wildcard(...)>
@if(!rewriteMode)
@if(backtracking)if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType> *)[adapter dupTree:<label>];
[adapter addChild:<label>_tree toTree:root_<treeLevel>];
@if(backtracking)>}<endif>
@else <! rewrite mode !>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>;
@end
@if(backtracking)>}<endif>

// SET AST
matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSet */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(postmatchCode={
@if(!rewriteMode)
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
@if(terminalOptions.node)
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
@else
<label>_tree = (<ASTLabelType> *)[adapter dupNode:<label>];
@end
}@if(backtracking)>}<endif>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>;
}<endif>
>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTTreeParser matchRuleBlockSet */
<matchSet(...)>

---

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matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSetBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(...)> >>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
/* ASTTreeParser matchSetRuleRoot */
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
<endif>}
root_<treeLevel> = (<ASTLabelType> *)[adaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)>
}_{<if(!rewriteMode)}> <! rewrite mode !>
if (_first_<_treeLevel> == nil ) _first_<_treeLevel> = <label>_tree;
<endif>
}
}> >>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
[treeAdaptor addChild:<label>.tree toTree:root_<treeLevel>];
<else> <! rewrite mode !>
if (_first_<_treeLevel> == nil ) _first_<_treeLevel> = <label>_tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefAndListLabel */
<ruleRef(...)>
<! <listLabel(elem = "["+label+" getTree"]",...)> !>
<listLabel(elem = [{<label> getTree}]....)> >>
/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking == 0 ) <endif>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>.tree old:root_<treeLevel>];
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem = [{<label> getTree},...])>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefTrack */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefTrackAndListLabel */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrack */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefRuleRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrackAndListLabel */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
/* ASTTreeParser createRewriteNodeFromElement */
@if(terminalOptions.node)>
<! new <terminalOptions.node>(stream_<token>.nextNode()) !>
[[[<terminalOptions.node>(stream_<token> alloc init) nextNode];
<else>
<! stream_<token>.nextNode() !>
[stream_<token> nextNode]
<endif>
>>
ruleCleanUp() ::= <<
/* ASTTreeParser ruleCleanUp */
<super.ruleCleanUp()>
@if(!rewriteMode)
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<
><endif>
retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
@if(backtracking)>}<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/ASTTreeParser.stg
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*/
/** Add an adaptor property that knows how to build trees */
@headerFile.members() ::= <<
/* @headerFile.members() */
pANTLR3_BASE_TREE_ADAPTOR adaptor;
pANTLR3_VECTOR_FACTORY vectors;
/* End @headerFile.members() */
>>

/** Install the tree adaptor interface pointer and anything else that
* tree parsers and producers require. */
@
@genericParser.apifuncs() ::= <<
@if(PARSER)
ADAPTOR= ANTLR3_TREE_ADAPTORNew(instream->tstream->tokenSource->strFactory);
@endf
ctx->vectors= antlr3VectorFactoryNew(0);
>>

@if(PARSER)
/* We created the adaptor so we must free it */
ADAPTOR->free(ADAPTOR);
@endf

@returnScope.ruleReturnMembers() ::= <<
<super.ASTLabelType()> tree;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0;
>>
/* Note that we defer the actual creation of any rewrite streams we need here and just initialize
* them to NULL. This saves creating huge numbers of rewrite streams that cannot be used as only
* one alt will be taken in a rule, but we are declaring all the streams here. So we define
* a macro that contains the create code, then use this macro later to check if the stream
* has been created yet. Checking for NULL is almost free in C.
*/
ruleLabelInitializations() ::= <<
<super.ruleLabelInitializations()>
<ruleDescriptor.tokenLabels:{it | <it.label.text>_tree = NULL;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <it.label.text>_tree = NULL;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 ::{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 ::{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>}; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.tree = NULL;
<endif>
>>

/**  a rule label including default value */
ruleLabelInitVal(label) ::= <<
<super.ruleLabelInitVal(...)>
<label.label.text>.tree = NULL;
>>
/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
@if(autoAST)>
@if(outerAlt)>
@endif>
@if(outerAlt)>
@endif>
<<
@if(autoAST)>
@if(outerAlt)>
@if(!rewriteMode)>
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
@endif>
@endif>
@endif>

@alt.initializations() ::= <<
@if(autoAST)>
@if(outerAlt)>
@if(!rewriteMode)>
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
@endif>
@endif>
@endif>

// Tracking Rule Elements
//
/** ID but track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<token>;
stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><
@endif>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<token>;
stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><
@endif>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<token>;
stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><
@endif>
wildcardTrack(label, elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule, label, elementIndex, args, scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefTrack(...)>
<listLabelTrack(...)
>>

/** ^( rule ... ) rewrite */
ruleRefRuleRootTrack(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabelAST(...)
>>

// RULE REF AST

/** Match ^(label+=TOKEN ... ) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token, label, elementIndex, terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)
>>

/* How to accumulate lists when we are doing rewrite tracking... */
listLabelTrack(label) ::= <<
/* listLabelTrack(label) */
*/
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <label>.tree, NULL);

/* How to accumulate lists of rule outputs (only allowed with AST
* option but if the user is going to walk the tree, they will want
* all their custom elements from rule returns.
*
* Normally, we use inline structures (which the compiler lays down
* code to copy from heap allocations. However, here we want to accumulate copies
* of the returned structures because we are adding them to a list. This only makes sense if the
* grammar is not rewriting the tree as a tree rewrite only preserves the tree, not the object/structure
* returned from the rule. The rewrite will extract the tree pointer. However, if we are not going to
* do a tree re-write, then the user may wish to iterate the structures returned by the rule in
* action code and will expect the user defined returns[] elements to be available when they do this.
* Hence we cannot just preserve the tree that was returned. So, we must copy the local structure and provide
* a function that can free the allocated space. We cannot know how to free user allocated elements and
* presume that the user will know to do this using their own factories for the structures they allocate.
*/
listLabelAST(label) ::= <<
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
{
    RETURN_TYPE_<label> * tcopy;

tcopy = (RETURN_TYPE_<label> *)ANTLR3_MALLOC(sizeof(RETURN_TYPE_<label>)); /* Note no
memory allocation checks! */
ANTLR3_MEMCPY((void *)(tcopy), (const void *)&<label>, sizeof(RETURN_TYPE_<label>));
list_<label>->add(list_<label>, (void *)tcopy, freeScope); /* Add whatever the return type is */
}
>>

// R e w r i t e

rewriteCode(
alts,
    description,
    referencedElementsDeep, // ALL referenced elements to right of ->
    referencedTokenLabels,
    referencedTokenListLabels,
    referencedRuleLabels,
    referencedRuleListLabels,
    referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel,
enclosingTreeLevel,
treeLevel) ::= 
<<

/* AST REWRITE
* elements          : <referencedElementsDeep; separator="",">
* token labels      : <referencedTokenLabels; separator="",">
* rule labels       : <referencedRuleLabels; separator="",">
* token list labels : <referencedTokenListLabels; separator="",">
* rule list labels  : <referencedRuleListLabels; separator="",">
*/
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) <\n
<rewriteCodeLabelsDecl()>
<rewriteCodeLabelsInit()>
root_0			    = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<prevRuleRootRef()>.tree    = root_0;
<alts:rewriteAlt(); separator="else ">
<if(TREE_PARSER>)
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
ADAPTOR->getChildIndex(ADAPTOR, retval.start),
ADAPTOR->getChildIndex(ADAPTOR, _last),
retval.tree);
<endif>
<endif>
<prevRuleRootRef()>.tree = root_0; // set result root
<rewriteCodeLabelsFree()>

}
>>

rewriteCodeLabelsDecl() ::= <<
<referencedTokenLabels
    :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
    separator="\n"
>
<referencedTokenListLabels
    :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
    separator="\n"
>
<referencedRuleLabels
    :{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
>
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
    alt,
    rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= <<
    // <fileName>:<description>
    {
    if ( <referencedElementsDeep:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) }; separator="|| "> )
    {
    <alt>
    }
    <referencedElementsDeep:{el | if (stream_<el> != NULL) stream_<el>->reset(stream_<el>); }>
    }
>>

rewriteClosureBlock(
    alt,
    rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= <<
    // <fileName>:<description>
    {
    while ( <referencedElements:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) }; separator="|| "> )
    {
    <alt>
    }
    <referencedElements:{el | if (stream_<el> != NULL) stream_<el>->reset(stream_<el>); }>
    }
>>
RewriteEarlyExitException() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_REWRITE_EARLY_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_REWRITE_EARLY_EXCEPTION_NAME;
>>
rewritePositiveClosureBlock(
    alt,
    rewriteBlockLevel,
referencedElementsDeep. // all nested refs
referencedElements. // elements in immediately block; no nested blocks
description) ::= <<
if (<referencedElements:{el | (stream_<el> == NULL || !stream_<el>->hasNext(stream_<el>)) }; separator="|| "> ) {
   <RewriteEarlyExitException>()
}
else {
while ( <referencedElements:{el | (stream_<el>->hasNext(stream_<el>)) }; separator="|| "> ) {
  <alt>
}<referencedElements:{el | stream_<el>->reset(stream_<el>);<\n}>>
}
>>

rewriteAlt(a) ::= <<
// a.description
@if(a.pred)
if (a.pred)
  {
   <a.alt>
  }<\n>
@else
  {
   <a.alt>
  }<\n>
@endif
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = NULL; /* <-- rewriteEmptyAlt() */"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>::<description>
{
  <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
  <root:rewriteElement()>
  <children:rewriteElement()>
    ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
  ]<\n>
}<<
rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
@pregen()
/** Gen ID or ID[args] */
rewriteTokenRef(token, elementIndex, terminalOptions, args) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createRewriteNodeFromElement(...)>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label, elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>->nextNode(stream_<label>));
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label, elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>->nextNode(stream_<label>));
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label, elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRootToken(ADAPTOR, stream_<label> == NULL ? NULL : stream_<label>->nextToken(stream_<label>), root_<treeLevel>));
>>

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token, elementIndex, terminalOptions, args) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createRewriteNodeFromElement(...)>, root_<treeLevel>));
>>

rewriteImaginaryTokenRef(args, token, terminalOptions, elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args, token, terminalOptions, elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createImaginaryNode(tokenType=token, ...>), root_<treeLevel>));
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>
/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule,dup) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_treeLevel, stream_rule == NULL ? NULL : stream_rule->
  nextTree(stream_rule));
>>

rewriteRuleRefRoot(rule,dup) ::= <<
  root_treeLevel = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_rule == NULL ? NULL :
  stream_rule->nextNode(stream_rule), root_treeLevel));
>>

rewriteNodeAction(action) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_treeLevel, action);
>>

rewriteNodeActionRoot(action) ::= <<
  root_treeLevel = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, action, root_treeLevel));
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_treeLevel, stream_label == NULL ? NULL : stream_label->
  nextTree(stream_label));
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
  ADAPTOR->addChild(ADAPTOR, root_treeLevel, stream_label == NULL ? NULL : stream_label->
  nextTree(stream_label));
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
  root_treeLevel = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_label == NULL ? NULL :
  stream_label->nextNode(stream_label), root_treeLevel));
>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
  root_treeLevel = (<ASTLabelType>)(stream_label == NULL ? NULL : stream_label->
  nextNode(stream_label), root_treeLevel));
>>
rewriteWildcardLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
@if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
<terminalOptions.node>New(<tokenType><if(args)>, <args; separator=", "></endif>)
<else>
<if(args)>
#if <length(args)> == 2
(<ASTLabelType>)ADAPTOR->createTypeTokenText(ADAPTOR, <tokenType>, TOKTEXT(<args; separator=", ", ")})
#else
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)<args;
separator=", ", ")}
#endif
<else>
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)<tokenType>)
<endif>
<endif>
>>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
@if(terminalOptions.node)>
<terminalOptions.node>New(stream_<token>->nextToken(stream_<token>)<if(args)>, <args; separator=", ", "></endif>)
<else>
<if(args)>
#if	<length(args)> == 2
ADAPTOR->createTypeTokenText(ADAPTOR, <token>-getText(<token>, TOKTEXT(<token>, <args; separator=", ", ")}) /* JIMI */
#else
ADAPTOR->createTypeToken(ADAPTOR, <token>-getText(<token>, <token>, <args; separator=", ", ")}
#endif
<else>
stream_<token> == NULL ? NULL : stream_<token>-nextNode(stream_<token>)
<endif>
<endif>
>>
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/*

New style messages. This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

group antlr;

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

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* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ActionScript/ASTParser.stg
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python3/Dbg.stg
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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Python by code generator.
*/
group ASTDbg:

astAccessor() ::= <<
def setTreeAdaptor(self, adaptor):
 <if(grammar.grammarIsRoot)>
  self._adaptor = DebugTreeAdaptor(self.dbg, adaptor)
 <else>
  self._adaptor = adaptor # delegator sends dbg adaptor
 <endif>
 <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(self._adaptor)}>>

def getTreeAdaptor(self):
  return self._adaptor

adaptor = property(getTreeAdaptor, setTreeAdaptor)
>>

createListenerAndHandshake() ::= <<
proxy = DebugEventSocketProxy(self,
adaptor=<if(TREE_PARSER)>self.input.getTreeAdaptor()<else>self._adaptor<endif>,
 debug=debug_socket, port=port)
self.setDebugListener(proxy)
self.adaptor.setDebugListener(proxy)
self.input.setDebugListener(proxy)
#self.set(inputStreamType)(Debug<inputStreamType>(self.input, proxy))
proxy.handshake()
>>

@rewriteElement.pregen() ::= "self._dbg.location(<e.line>, <e.pos>)"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states; separator="; ";>}
>>

edge(src,target,label,arrowhead) ::= <<
<src> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead) ::= <<
<src> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,target,label,arrowhead) ::= <<
<src> -> <target> [fontname="Times-Italic", label = "e"];
>>

state(name,useBox) ::= <<
node [fontsize=11, shape = <if(useBox)>box<else>circle, fixedsize=true, width=.4<endif>]; <name>
>>

stopstate(name,useBox) ::= <<
node [fontsize=11, shape = <if(useBox)>polygon,sides=4,peripheries=2<else>doublecircle, fixedsize=true, width=.6<endif>]; <name>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/templates/dot/dot.stg
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This file contains the default format ANTLR uses.

group antlr;

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/tool/templates/messages/formats/antlr.stg
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*/

/** Templates for building ASTs during tree parsing. */
/*
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
 */

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<if(!ruleDescriptor.isSynPred)>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<\n>
<endif>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel=false, treeLevel=false) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = _first_0;
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<endif>
>>
/** match ^(root children) in tree parser; override here to
*  add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
  if(!ruleDescriptor.isSynPred)
    _last = (<ASTLabelType>)input.LT(1);
    {
      <ASTLabelType> _save_last_<treeLevel> = _last;
      <ASTLabelType> _first_<treeLevel> = null;
      if(!rewriteMode)
        <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
    }
    if(!rewriteMode)
      <root:element()>
      if(!rewriteMode)
        <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
        if (root.el.rule)
          if ( _first_<enclosingTreeLevel>=null ) _first_<enclosingTreeLevel> =
            (<ASTLabelType>)<root.el.label>.getTree();
          elseif(root.el.label)
            if ( _first_<enclosingTreeLevel>=null ) _first_<enclosingTreeLevel> = <root.el.label>;
        </endif>
        <actionsAfterRoot:element()>
        <if(nullableChildList)>
          if ( input.LA(1)==Token.DOWN ) {
            match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
            <children:element()>
              match(input, Token.UP, null); <checkRuleBacktrackFailure()>
            }
          else
            match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
            <children:element()>
            match(input, Token.UP, null); <checkRuleBacktrackFailure()>
          </endif>
          if(!rewriteMode)
            adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
        </endif>
      _last = _save_last_<treeLevel>;
    </if>
  else
    <super.tree(...)>
  >>
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= <<
  if(!ruleDescriptor.isSynPred)
    _last = (<ASTLabelType>)input.LT(1);
  super.tokenRef(...)
  
  if(!rewriteMode)
    if(backtracking)
      if ( <actions.(actionScope).synpredgate> ) {
        if(terminalOptions.node)
          _tree = new <terminalOptions.node>(<label>);
        else
          _tree = (<ASTLabelType>)adaptor.dupNode(<label>);
        
        adaptor.addChild(root_<treeLevel>, _tree);
      }
    else
      _first_<treeLevel> = <label>;
  else
    super.tokenRefBang(...)
  endif
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
  if(!ruleDescriptor.isSynPred)
    _last = (<ASTLabelType>)input.LT(1);
  super.tokenRef(...)
  if(!rewriteMode)
    
    if(backtracking)
      if ( <actions.(actionScope).synpredgate> ) {
        if(terminalOptions.node)
          _tree = new <terminalOptions.node>(<label>);
        else
          _tree = (<ASTLabelType>)adaptor.dupNode(<label>);
        
        adaptor.addChild(root_<treeLevel>, _tree);
      }
    else
      _first_<treeLevel> = <label>;
    endif
  else
    super.tokenRef(...)
  endif
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  <tokenRef(...))
  <listLabel(elem=label,...)>
  
  if(backtracking)
    ! rewrite mode !
  
  if(backtracking)
    if ( <actions.(actionScope).synpredgate> )
      if (_first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  endif
  else
    super.tokenRefAndListLabel(...)
  endif
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  <tokenRef(...))
  <listLabel(elem=label,...)>
  
  if(backtracking)
    ! rewrite mode !
  
  if(backtracking)
    if ( <actions.(actionScope).synpredgate> )
      if (_first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  endif
  else
    super.tokenRefAndListLabel(...)
  endif
>>
/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)>
  <if(!rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
      <if(terminalOptions.node)>
        <label>_tree = new <terminalOptions.node>(<label>);
      <else>
        <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
      <endif>
      <if(backtracking)>}
    <else>
      <super.tokenRefRuleRoot(...)>
    <endif>
    <else>
      <super.tokenRefRuleRoot(...)>
    <endif>
  >>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <tokenRefRuleRoot(...)>
    <listLabel(elem=label,...)>
  <else>
    <super.tokenRefRuleRootAndListLabel(...)>
  <endif>
  >>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.wildcard(...)>
  <if(!rewriteMode)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
      <label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
      adaptor.addChild(root_<treeLevel>, <label>_tree);
      <if(backtracking)>}
    <else>
      <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
      if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
      <endif>
    <else>
      <super.wildcard(...)>
    <endif>
  >>
// SET AST

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = new <terminalOptions.node>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif>
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <endif>
  }}, ...
  )>
  <else>
  <super.matchSet(...)
  <endif>
>>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <matchSet(...)
  <noRewrite(...)> <! set return tree !>
  <else>
  <super.matchRuleBlockSet(...)
  <endif>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(...)
  <else>
  <super.matchSetBang(...
  <endif>
>>

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = new <terminalOptions.node>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif>
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <endif>
  }}, ...
  )>
  <else>
  <super.matchSet(...
  <endif>
>>
<label>_tree = new <terminalOptions.node>(<label>);
</else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
</if(backtracking)>}}
<endif>

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred>)
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRef(...)>;
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
  <if(!rewriteMode)>
    adaptor.addChild(root_<treeLevel>, <label>.getTree());
  </else> ! rewrite mode !
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = (<ASTLabelType>)<label>.getTree();
  <endif>
  <else>
    <super.ruleRef(...)>
  <endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred>)
    <ruleRef(...)>
    <listLabel(label, {<label>.getTree()})>
  </else>
  <super.ruleRefAndListLabel(...)
  <endif>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred>)
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRef(...)>;
  <if(!rewriteMode)>
    _first_<treeLevel> = (<ASTLabelType>)<label>.getTree();
  </else> ! rewrite mode !
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = (<ASTLabelType>)<label>.getTree();
  <endif>
  <else>
    <super.ruleRef(...)>
  <endif>
>>
```java
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
<else>
<super.ruleRefRuleRoot(...)>
<endif>
>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRefRuleRoot(...)>
</if>
</if>
<listLabel(label, {<label>.getTree()})>
<else>
<super.ruleRefRuleRootAndListLabel(...)
<endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
<else>
<super.ruleRefTrackAndListLabel(...)
<endif>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
<else>
<super.ruleRefRootTrack(...)
<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
```
Streams for token refs are tree nodes now; override to change nextToken to nextNode.

createRewriteNodeFromElement(token, args, terminalOptions={}) ::= <<
  if(terminalOptions.node)
    new terminalOptions.node(stream_<token>.nextNode())
  else
    stream_<token>.nextNode()
  endif
>>

ruleCleanUp() ::= <<
  super.ruleCleanUp()
  if(!ruleDescriptor.isSynPred)
    if(!rewriteMode)
      if(backtracking)
        if ( actions.(actionScope).synpredgate )
          retval.tree = (ASTLabelType) adaptor.rulePostProcessing(root_0);
          if(backtracking)
            endif
      endif
    endif
  endif
>>

*/

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/** Template subgroup to add template rewrite output
 * If debugging, then you'll also get STDbg.stg loaded.
 */

@outputFile.imports() ::= <<
<@super.imports()>
import stringtemplate3
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnInit() ::= <<
self.st = None
>>

@returnScope.ruleReturnMembers() ::= <<
def getTemplate(self):
    return self.st

def toString(self):
    if self.st is not None:
        return self.st.toString()
    return None
__str__ = toString

>>

@genericParser.init() ::= <<
<@super.init()>
self.templateLib = stringtemplate3.StringTemplateGroup(
    '<name>Templates', lexer='angle-bracket'
)
>>

@genericParser.members() ::= <<
<@super.members()>>
def setTemplateLib(self, templateLib):
    self.templateLib = templateLib

def getTemplateLib(self):
    return self.templateLib

/** x+=rule when output=template */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRef(...)>
  <listLabel(label, {<label>.st})>
>>

rewriteTemplate(alts) ::= <<
  # TEMPLATE REWRITE
  <if(backtracking)>
  if <actions.(actionScope).synpredgate>:
    <first(alts):rewriteTemplateAltFirst()>,
    <rest(alts):{it | el<rewriteTemplateAlt(it)> }>
    <if(rewriteMode)><replaceTextInLine()><endif>
  <else>
    <first(alts):rewriteTemplateAltFirst()>,
    <rest(alts):{it | el<rewriteTemplateAlt(it)> }>
    <if(rewriteMode)><replaceTextInLine()><endif>
  <endif>
>>

replaceTextInLine() ::= <<
  <if(TREE_PARSER)>
  self.input.getTokenStream().replace(
    self.input.getTreeAdaptor().getTokenStartIndex(retval.start),
    self.input.getTreeAdaptor().getTokenStopIndex(retval.start),
    retval.st
  )
  <else>
    self.input.replace(
      retval.start.getTokenIndex(),
      self.input.LT(-1).getTokenIndex(),
      retval.st
    )
  <endif>
>>

rewriteTemplateAltFirst(alt) ::= <<
  <if(alt.pred)>
  if <alt.pred>:
    <first(alt):rewriteTemplateAltFirst()>,
    <rest(alt):{it | el<rewriteTemplateAlt(it)> }>
    <if(rewriteMode)><replaceTextInLine()><endif>
  <else>
    <first(alt):rewriteTemplateAltFirst()>,
    <rest(alt):{it | el<rewriteTemplateAlt(it)> }>
    <if(rewriteMode)><replaceTextInLine()><endif>
  <endif>

rewriteTemplateAltFirst(alt) ::= <<
  <if(alt.pred)>
  if <alt.pred>:
```python
# <alt.description>
retval.st = <alt.alt>
<un>
<else>
# <alt.description>
retval.st = <alt.alt>
<un>
<endif>
>>

rewriteTemplateAlt(alt) ::= <<
<if(alt.pred)>if <alt.pred>:
    # <alt.description>
    retval.st = <alt.alt>
<un>
<else>se:
    # <alt.description>
    retval.st = <alt.alt>
<un>
<endif>
>>

rewriteEmptyTemplate(alts) ::= <<
None
>>

/** Invoke a template with a set of attribute name/value pairs. */
** Set the value of the rule's template *after* having set
** the attributes because the rule's template might be used as
** an attribute to build a bigger template; you get a self-embedded
** template.
*/
rewriteExternalTemplate(name,args) ::= <%
    self.templateLib.getInstanceOf("<name>"<if(args), attributes={<args:{a | "<a.name>": <a.value>}; separator=", "}<endif>)
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
    self.templateLib.getInstanceOf(<expr><if(args), attributes={<args:{a | "<a.name>": <a.value>}; separator=", "}<endif>)
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
    stringtemplate3.StringTemplate("<template>", group=self.templateLib<if(args), attributes={<args:{a | "<a.name>": <a.value>}; separator=", "}<endif>)
%>
```
/** plain -> \{foo\} action */
rewriteAction(action) ::= <<
  <action>
>>

/** An action has \%st.attrName=expr; or \%{st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
  (<st>)"<attrName>" = <expr>
>>

/** Translate \%{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
  stringtemplate3.StringTemplate(<stringExpr>, group=self.templateLib)
>>

Found in path(s):
  */ /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python/ST.stg

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1.1547 jackson 2.4.5

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### 1.1548 snake-yaml 1.19

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1.1549 artemis-core-client 1.1.0.wildfly-017

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
* *
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for his work on the initial Linux DVB driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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* /opt/ws_local/PERMITS_SQL/1091709926_1600571384.45/0/wildfly-elytron-sasl-gssapi-1-11-2-final-sources.jar/org/wildfly/security/sasl/gssapi/AbstractGssapiFactory.java
* /opt/ws_local/PERMITS_SQL/1091709926_1600571384.45/0/wildfly-elytron-sasl-gssapi-1-11-2-final-sources.jar/org/wildfly/security/sasl/gssapi/GssapiClientFactory.java
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  jar/org/wildfly/security/sasl/gssapi/WildFlyElytronSaslGssapiProvider.java

1.1557 wildfly-elytron-auth-server 1.11.2.Final

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  jar/org/wildfly/security/auth/server/SecurityDomain.java
* /opt/ws_local/PERMITS_SQL/1091710562_1600571574.85/0/wildfly-elytron-auth-server-1-11-2-final-sources-
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* /opt/ws_local/PERMITS_SQL/1091710562_1600571574.85/0/wildfly-elytron-auth-server-1-11-2-final-sources-jar/org/wildfly/security/authz/MappedRoleMapper.java

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* /opt/ws_local/PERMITS_SQL/1091710562_1600571574.85/0/wildfly-elytron-auth-server-1-11-2-final-sources.jar/org/wildfly/security/auth/callback/ParameterCallback.java
* /opt/ws_local/PERMITS_SQL/1091710562_1600571574.85/0/wildfly-elytron-auth-server-1-11-2-final-sources.jar/org/wildfly/security/auth/callback/PeerPrincipalCallback.java
* /opt/ws_local/PERMITS_SQL/1091710562_1600571574.85/0/wildfly-elytron-auth-server-1-11-2-final-sources.jar/org/wildfly/security/auth/callback/SocketAddressCallback.java
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/**
 * <p>Returns a {@link PermissionVerifier} with all the permissions associated with the given information.
 * </p>
 *<p>Once returned, client code can use the { @link PermissionVerifier#implies(Permission)} to check if a given
 * permission is granted or not
 * to the given principal. Implementors must make sure that the returned collection is immutable.
 * </p>
 * @param permissionMappable the object to which permissions can be mapped (must not be { @code null})
 * @param roles a set of effective roles after all role mapping was applied by security domain (may be { @code
 * null})
 * @return a permission verifier (not { @code null})
 */

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1.1561 lang-mustache-client 6.8.5

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1.1563 maven-repository-metadata 2.0.7

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1.1564 acl 2.2.51 15.el7

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1.1565 zlib 1.2.5

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version 1.2.11, January 15th, 2017

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*/
/**
* A subcontext which carries information about whether the message channel in use is considered
* to have the active properties of confidentiality and integrity.
*
* <p>
* This data is typically used to determine whether additional application- or protocol-specific signing
* and/or encryption operations are necessary.
* </p>
*/
/** Message channel confidentiality flag. */
/**
* Get whether message channel confidentiality is active.
* @return Returns the confidentialityActive.
*/
/**
* Set whether message channel confidentiality is active.
* @param flag The confidentialityActive to set.
*/

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* /opt/cola/permits/1000740286_1646171488.95/0/opensaml-messaging-api-3-3-0-sources-
  jar/org/opensaml/messaging/context/MessageChannelSecurityContext.java
1.1567 plexus-utils 3.2.0

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* /opt/cola/permits/1152168988_1654022841.4740803/0/hk2-utils-2-4-0-b34-sources-3-
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  jar/org/glassfish/hk2/utilities/cache/CacheUtilities.java
* /opt/cola/permits/1152168988_1654022841.4740803/0/hk2-utils-2-4-0-b34-sources-3-
  jar/org/glassfish/hk2/utilities/general/internal/DoubleNode.java
* /opt/cola/permits/1152168988_1654022841.4740803/0/hk2-utils-2-4-0-b34-sources-3-
  jar/org/glassfish/hk2/utilities/general/WeakHashLRU.java
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  jar/org/glassfish/hk2/utilities/general/WeakHashClockImpl.java
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  jar/org/glassfish/hk2/utilities/reflection/internal/ClassReflectionHelperUtilities.java
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* /opt/cola/permits/1152168988_1654022841.4740803/0/hk2-utils-2-4-0-b34-sources-3-jar/org/glassfish/hk2/utilities/reflection/ReflectionHelper.java

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  jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-
  jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-
  jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-
  jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-
  jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-
  jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-
  jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-
  jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-
  jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-
  jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-
  jar/io/netty/channel/internal/ChannelUtils.java

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* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline}.  
*  
* @h3>Sub-types</h3>
*  
* { @link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
*  
* @ul>
*  
* @li> { @link ChannelInboundHandler} to handle inbound I/O events, and</li>
*  
* @li> { @link ChannelOutboundHandler} to handle outbound I/O operations.</li>
*  
* @ul>
*  
* For more information, please refer to the documentation of each subtype.
*  
* @p>

* @h3>The context object</h3>
*  
* A { @link ChannelHandler} is provided with a { @link ChannelHandlerContext}
* object. A { @link ChannelHandler} is supposed to interact with the
* { @link ChannelPipeline} it belongs to via a context object. Using the
* context object, the { @link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using { @link AttributeKey})s which is specific to the handler.
*  
* @h3>State management</h3>
*  
* A { @link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
*  
* public interface Message {
*   // your methods here
* }  
*  
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {  
*  
*   private boolean loggedIn;</b>
* public void channelRead0(ChannelHandlerContext ctx, Message message) {
*     Channel ch = e.getChannel();
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         loggedIn = true;
*     } else if (message instanceof GetDataMessage) {
*         if (loggedIn) {
*             ch.write(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
* }
* ...
*
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* ...
* // Create a new handler instance per channel.
* // See ChannelInitializer#initChannel(Channe).
* public class DataServerInitializer extends ChannelInitializer<Channel> {
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* ...
* </pre>
*
* <h4>Using AttributeKey's</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use AttributeKey's which is provided by
* ChannelHandlerContext:
* ...
* public interface Message {
*     // your methods here
* }
* ...
* @Sharable
* public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
*     private final AttributeKey<Boolean> auth =
*     [AttributeKey#valueOf(String) AttributeKey.valueOf("auth")]};
*     [code @Override]
*     public void channelRead([ChannelHandlerContext] ctx, Message message) {
*         [Attribute] ch = ctx.channel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             attr.set(true);<b>}</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ch.write(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the state of the handler is attached to the [ChannelHandlerContext], you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends [ChannelInitializer]<Channel> {
*     private static final DataServerHandler <b>S</b> = new DataServerHandler();
*     public void initChannel([Channel] channel) {
*         channel.pipeline().addLast("handler", <b>S</b>);
*     }
* </pre>
* The [Sharable] annotation
* In the example above which used an [AttributeKey],
* you might have noticed the [Sharable] annotation.
* If a [ChannelHandler] is annotated with the [Sharable]
* annotation, it means you can create an instance of the handler just once and
* add it to one or more [ChannelPipeline]s multiple times without
* a race condition.
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
This annotation is provided for documentation purpose, just like the JCIP annotations.

Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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- /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/ChannelInboundInvoker.java
- /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/WriteBufferWaterMark.java
- /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/DefaultSelectStrategyFactory.java
- /opt/cola/permits/1110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/bootstrap/ServerBootstrapConfig.java
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* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/local/package-info.java
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* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/nio/NioEventLoop.java
* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/DefaultChannelPromise.java
* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/socket/SocketChannel.java
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* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/ChannelInboundHandler.java
* /opt/cola/permits/110676200_1606843873.19/0/netty-transport-4-1-24-final-sources-1-jar/io/netty/channel/nio/ProtocolFamilyConverter.java
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1.1577 perl 5.16.3-294.el7_6
1.1577.1 Available under license :

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Julian Seward, jseward@bzip.org
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.," 
built_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  version: 3

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

#!/perl
=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;
sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = '';
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\d{4,}\b/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d{4,}\b/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

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#--------------------------------------------------------------------------------

org.picketlink.extension.PicketLinkExtension

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* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-jar/org/picketlink/internal/SecuredIdentityManager.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-jar/org/picketlink/producer/IdentityManagementProducer.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-jar/org/picketlink/producer/PermissionVoterProducer.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-jar/org/picketlink/http/internal/authentication/schemes/FormAuthenticationScheme.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-jar/org/picketlink/producer/PermissionResolverProducer.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-jar/org/picketlink/internal/CDIEventBridge.java
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* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-jar/org/picketlink/internal/CDIEventBridge.java
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  jar/org/picketlink/internal/DefaultIdentity.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink/http/internal/authentication/schemes/X509AuthenticationScheme.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-
  jar/org/picketlink/http/internal/authentication/schemes/support/RequestCache.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-
  jar/org/picketlink/http/internal/authentication/schemes/support/UUIDNonceGenerator.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-
  jar/org/picketlink/internal/AbstractIdentity.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-
  jar/org/picketlink/http/internal/authentication/schemes/support/HTTPDigestUtil.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-
  jar/org/picketlink/internal/authorization/GroupPathAuthorizer.java
* /opt/cola/permits/1003069619_1654022956.1189513/0/picketlink-impl-2-5-5-sp12-sources-1-
  jar/org/picketlink/http/internal/util/RequestUtil.java

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  * /opt/cola/permits/1002302782_1654022908.94403890/jboss-sasl-1-0-3-final-sources-jar/org/jboss/sasl/localuser/LocalUserClientFactory.java
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/*
 *
 * If QOP is set to 'auth-conf', a DIGEST-MD5 mechanism must have
 * support for the DES and Triple DES cipher algorithms (optionally,
 * support for RC4 [128/56/40 bit keys] ciphers) to provide for
 * confidentiality. See RFC 2831 for details. This implementation

* provides support for DES, Triple DES and RC4 ciphers.
*
* The value of strength effects the strength of cipher used. The mappings
* of 'high', 'medium', and 'low' give the following behaviour.
*
*  HIGH_STRENGTH  - Triple DES
  - RC4 (128bit)
*  MEDIUM_STRENGTH - DES
  - RC4 (56bit)
*  LOW_STRENGTH   - RC4 (40bit)
*/
/**
* Implementation of the SecurityCtx interface allowing for messages
* between the client and server to be integrity checked and encrypted.
* After a successful DIGEST-MD5 authentication, privacy is invoked if the
* SASL QOP (quality-of-protection) is set to 'auth-conf'.
* <p>
* Further details on the integrity-protection mechanism can be found
* at section 2.4 - Confidentiality protection in
* *
* @author Jonathan Bruce
*/

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* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its [@link ChannelPipeline].
 *
* <h3>Sub-types</h3>
* <p>
* [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
* <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
* <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
* <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
 *
* <h3>The context object</h3>
* <p>
* A [@link ChannelHandler] is provided with a [@link ChannelHandlerContext]
* object. A [@link ChannelHandler] is supposed to interact with the
* [@link ChannelPipeline] it belongs to via a context object. Using the
* context object, the [@link ChannelHandler] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using [@link AttributeKey]s) which is specific to the handler.
* *
* <h3>State management</h3>
* *
* A [@link ChannelHandler] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* *
* public interface Message {
*   // your methods here
* }
*
**public class** DataServerHandler extends [@link SimpleChannelInboundHandler]\&lt;Message\&gt; { 

* <b>private boolean loggedIn;</b> 

* 

* { @code @Override 
* public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         <b>loggedIn = true;</b>/\</b>
*     } else (message instanceof GetDataMessage) {
*         if (<b>loggedIn</b>) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* 
* // Create a new handler instance per channel.
* // See [@link ChannelInitializer#initChannel(Channel)].
* **public class** DataServerInitializer extends [@link ChannelInitializer]\&lt;[@link Channel]\&gt; { 
*     { @code @Override 
*     public void initChannel([@link Channel] channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
*     }
* }
* </pre>
* 
* <h4>Using [@link AttributeKey]s</h4>
* 
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use [@link AttributeKey]s which is provided by
* [
* @link ChannelHandlerContext]:
* </pre>
* **public interface** Message { 
*     // your methods here
* }
* </code>
* @Sharable
}
* public class DataServerHandler extends [@link SimpleChannelInboundHandler] &lt;Message&gt; { [code @Override]
  public void channelRead([@link ChannelHandlerContext] ctx, Message message) { [code]
    [@link Attribute] &lt;[@link Boolean]&gt; attr = ctx.attr(auth);
    if (message instanceof LoginMessage) {
      authenticate((LoginMessage) o);
      <b>attr.set(true)</b>;
    } else (message instanceof GetDataMessage) {
      if (<b>Boolean.TRUE.equals(attr.get())</b>) {
        ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
      } else {
        fail();
      }
    }
  }
}</pre>

* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the
  same handler instance to different pipelines:
* <pre>
  * public class DataServerInitializer extends [@link ChannelInitializer] &lt;[@link Channel]&gt; {
  *   * private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
  *
  *   *   [code @Override]
  *   *   public void initChannel([@link Channel] channel) {
  *   *     channel.pipeline().addLast("handler", <b>SHARED</b>);
  *   *   }
  *   * }
  *
  * <h4>The [@code @Sharable] annotation</h4>
* <p>
* In the example above which used an [@link AttributeKey],
* you might have noticed the [@code @Sharable] annotation.
* <p>
* If a [@link ChannelHandler] is annotated with the [@code @Sharable]
* annotation, it means you can create an instance of the handler just once and
* add it to one or more [@link ChannelPipeline]s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
such as member variables.

This annotation is provided for documentation purpose, just like <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/"">the JCIP annotations</a>. Additional resources worth reading

Please refer to the [@link ChannelHandler], and [@link ChannelPipeline] to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

*/

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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java
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* /opt/cola/permits/110676303_1654022990.6208029/0/wildfly-controller-client-6-0-2-final-sources-1-
jar/org/jboss/as/controller/client/helpers/domain/impl/DomainDeploymentManagerImpl.java
* /opt/cola/permits/110676303_1654022990.6208029/0/wildfly-controller-client-6-0-2-final-sources-1-
jar/org/jboss/as/controller/client/helpers/domain/DomainDeploymentManager.java
* /opt/cola/permits/1110676303_1654022990.6208029/0/wildfly-controller-client-6-0-2-final-sources-1-
jar/org/jboss/as/controller/client/helpers/domain/UndeployDeploymentPlanBuilder.java
* /opt/cola/permits/1110676303_1654022990.6208029/0/wildfly-controller-client-6-0-2-final-sources-1-
jar/org/jboss/as/controller/client/helpers/domain/DeploymentActionResult.java
* /opt/cola/permits/1110676303_1654022990.6208029/0/wildfly-controller-client-6-0-2-final-sources-1-
jar/org/jboss/as/controller/client/helpers/domain/impl/DomainClientImpl.java
* /opt/cola/permits/1110676303_1654022990.6208029/0/wildfly-controller-client-6-0-2-final-sources-1-
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* /opt/cola/permits/1110676303_1654022990.6208029/0/wildfly-controller-client-6-0-2-final-sources-1-
jar/org/jboss/as/controller/client/helpers/domain/ServerIdentity.java
* /opt/cola/permits/1110676303_1654022990.6208029/0/wildfly-controller-client-6-0-2-final-sources-1-
jar/org/jboss/as/controller/client/helpers/standalone/ServerDeploymentManager.java

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* /opt/cola/permits/1110676303_1654022990.6208029/0/wildfly-controller-client-6-0-2-final-sources-1-jar/org/jboss/as/controller/client/impl/ExistingChannelModelControllerClient.java
* /opt/cola/permits/1110676303_1654022990.6208029/0/wildfly-controller-client-6-0-2-final-sources-1-jar/org/jboss/as/controller/client/OperationAttachments.java

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David Megginson, david@megginson.com
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* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/format/AnnotationFormatterFactory.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/context/ApplicationContext.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/context/annotation/PropertySources.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/cache/interceptor/BasicOperation.java

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  jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/context/annotation/ImportAware.java
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 */
/**
 * Indicates that a component is only eligible for registration when all
 * { @linkplain #value specified conditions} match.
 *
 * <p>A <em>condition</em> is any state that can be determined programmatically
 * before the bean definition is due to be registered (see { @link Condition} for details).
 *
 * <p>The { @code @Conditional} annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * { @code @Component}, including { @link Configuration @Configuration} classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any { @link Bean @Bean} method</li>
 * </ul>
 *
 * <p>If a { @code @Configuration} class is marked with { @code @Conditional},
 * all of the { @code @Bean} methods, { @link Import @Import} annotations, and
 * { @link ComponentScan @ComponentScan} annotations associated with that
 * class will be subject to the conditions.
 *
 * <p><strong>NOTE</strong>: Inheritance of { @code @Conditional} annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * { @code @Conditional} itself is not declared as
 * { @link java.lang.annotation.Inherited @Inherited}; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
 * { @code @Conditional} must not be declared as { @code @Inherited}.
 *
 * @author Phillip Webb
 * @author Sam Brannen
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/**
* Abstract the invocation of a cache operation.
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
* 
* @author Stephane Nicoll
* @since 4.1
*/

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  jar/org/springframework/format/Parser.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/format/Printer.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
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  jar/org/springframework/jndi/JndiLocatorDelegate.java
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  jar/org/springframework/format/datetime/standard/PeriodFormatter.java
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* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
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  jar/org/springframework/scheduling/scheduling/config/TaskScheduler.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
  jar/org/springframework/scheduling/scheduling/annotation/Schedules.java
* /opt/ws_local/PERMITS_SQL/1068290243_1594347848.93/0/spring-context-5-2-2-release-sources-1-
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  jar/org/springframework/cache/support/SimpleCacheManager.java
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/**
 * {@link FactoryBean} that obtains a WebSphere {javax.management.MBeanServer}
 * reference through WebSphere's proprietary [@code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * Exposes the [@code MBeanServer] for bean references.
 *
 * This [@code FactoryBean] is a direct alternative to [@link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's [@link MBeanServer].
 *
 * See the javadocs for WebSphere's
 * @a href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
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 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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  jar/javax/json/stream/JsonCollectors.java
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  jar/javax/json/JsonPatch.java
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#define UV_PLATFORM_FS_EVENT_FIELDS                                           
  uv__io_t event_watcher;                                                     

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                         
  int rcount;                                                                 
  int wcount;                                                                 

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

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1.1605 transport 6.8.5

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<signature of Ty Coon>, 1 April 1989
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; NOTE: Assertions have been autogenerated by utiltools/update_lcc_test_checks_py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) { ; CHECK-LABEL: PR41535:
; CHECK: // %bb.0:
; CHECK-NEXT: ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT: mov v0.d[1], v0.d[0]
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246
CF246: ; preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248
CF248: ; preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248
}
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SOFTWARE.
; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
 define void @zext256() "min-legal-vector-width"="256" { 
VEC256-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
VEC256-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
VEC256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
VEC512-LABEL: 'zext256'
VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
VEC512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
VEC512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
define void @zext512() "min-legal-vector-width"="512" { 
AVX-NEXT:  Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x i32>
define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %F = sext <16 x i32> undef to <16 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; %A = sext <8 x i16> undef to <8 x i64>
    ; %B = sext <8 x i32> undef to <8 x i64>
    ; %C = sext <16 x i8> undef to <16 x i32>
    ; %D = sext <16 x i16> undef to <16 x i32>
    ; %E = sext <32 x i8> undef to <32 x i16>
    ; %F = sext <32 x i16> undef to <32 x i64>
    ret void
}

define void @sext512() "min-legal-vector-width"="512" {
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <16 x i32> undef to <16 x i64>
    ; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; %A = sext <8 x i16> undef to <8 x i64>
    ; %B = sext <8 x i32> undef to <8 x i64>
    ; %C = sext <16 x i8> undef to <16 x i32>
    ; %D = sext <16 x i16> undef to <16 x i32>
    ; %E = sext <32 x i8> undef to <32 x i16>
    ; %F = sext <32 x i16> undef to <32 x i64>
    ret void
}

define void @sext1024() "min-legal-vector-width"="1024" {
    ; VEC1024-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC1024-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC1024-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ; VEC1024-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
    ; VEC1024-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
    ; VEC1024-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <16 x i32> undef to <16 x i64>
    ; VEC1024-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    
    ; %A = sext <8 x i16> undef to <8 x i64>
    ; %B = sext <8 x i32> undef to <8 x i64>
    ; %C = sext <16 x i8> undef to <16 x i32>
    ; %D = sext <16 x i16> undef to <16 x i32>
    ; %E = sext <32 x i8> undef to <32 x i16>
    ; %F = sext <32 x i16> undef to <32 x i64>
    ret void
}
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

#define void @sext512() "min-legal-vector-width"="512" {

; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void 
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void 
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:
  ; preds = %entry
  br label %while.body

while.body:
  ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.1 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
  i32 1, label %sw.bb.i
  i32 2, label %sw.bb3.i
]

sw.bb.i:
  ; preds = %while.body
unreachable
sw.bb3.i: ; preds = %while.body
unreachable

exit: ; preds = %while.body
switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

sw.bb.i17: ; preds = %exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

sw.bb3.i20: ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

exit.2: ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll2.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
  %flt = sitofp <16 x i32> %in to <16 x double>
  %res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-LABEL: test_sitofp_fixed_shortish:
  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
  %res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
  ret <4 x double> %res
}

; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
  ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
  ret void
}

define internal void @innerNoAttribute() {
  ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {

call void @innerLarge()
ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: %11 = load volatile i8, i8* %10
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: %13 = load volatile i8, i8* %12
; CHECK-NEXT: %14 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: %15 = load volatile i8, i8* %14
; CHECK-NEXT: store i8* %15, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
}

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: %11 = load volatile i8, i8* %10
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: %13 = load volatile i8, i8* %12
; CHECK-NEXT: %14 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: %15 = load volatile i8, i8* %14
; CHECK-NEXT: store i8* %15, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
}
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %2 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %4 = inttoptr i32 %[[C2]], 4
; CHECK-NEXT: %5 = add i32 %[[C2]], 4
; CHECK-NEXT: %6 = inttoptr i32 %[[M1:const_mat[0-9]?] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[M2:const_mat[0-9]?] to i16*
; CHECK-NEXT: %9 = add i32 %[[M2]], 32
; CHECK-NEXT: %10 = inttoptr i32 %[[C2]], 32
; CHECK-NEXT: %11 = add i32 %[[C2]], 62
; CHECK-NEXT: %12 = inttoptr i32 %[[M3]], 62
; CHECK-NEXT: %13 = load volatile i16, i16* %12, align 2
; CHECK-NEXT: %14 = inttoptr i32 %[[M4]], 62
; CHECK-NEXT: %15 = add i32 %[[M4]], 22
; CHECK-NEXT: %16 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %17 = load volatile i16, i16* %16, align 2
; CHECK-NEXT: %18 = inttoptr i32 %[[M1]], 22
; CHECK-NEXT: %19 = load volatile i16, i16* %18, align 2
; CHECK-NEXT: %20 = inttoptr i32 %[[C2]], 22
; CHECK-NEXT: %21 = load volatile i16, i16* %20, align 2
; CHECK-NEXT: %22 = inttoptr i32 %[[M2]], 22
; CHECK-NEXT: %23 = load volatile i16, i16* %22, align 2
; CHECK-NEXT: %24 = inttoptr i32 %[[M3]], 22
; CHECK-NEXT: %25 = load volatile i16, i16* %24, align 2
; CHECK-NEXT: %26 = inttoptr i32 %[[C1]], 22
; CHECK-NEXT: %27 = load volatile i16, i16* %26, align 2
; CHECK-NEXT: %28 = inttoptr i32 %[[M4]], 22
; CHECK-NEXT: %29 = load volatile i16, i16* %28, align 2
; CHECK-NEXT: %30 = inttoptr i32 %[[C2]], 22
; CHECK-NEXT: %31 = load volatile i16, i16* %30, align 2

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 80587492 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1:const_mat[0-9]?] to i32*
; CHECK-NEXT: %3 = add i32 %[[M1]], 4
; CHECK-NEXT: %4 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[M2]], 32
; CHECK-NEXT: %7 = add i32 %[[M2]], 32
; CHECK-NEXT: %8 = inttoptr i32 %[[C2]], 64
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %10 = inttoptr i32 %[[M3]], 64
; CHECK-NEXT: %11 = add i32 %[[M3]], 64
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]], 64
; CHECK-NEXT: %13 = load volatile i32, i32* %12, align 4
; CHECK-NEXT: %14 = inttoptr i32 %[[M4]], 64
; CHECK-NEXT: %15 = add i32 %[[M4]], 64
; CHECK-NEXT: %16 = inttoptr i32 %[[C4]], 64
; CHECK-NEXT: %17 = load volatile i32, i32* %16, align 4
define void @foo_i32() {
  entry:
    %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
    %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
    %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
    %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
    %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
    %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
  ret void
}

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NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py

RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |
FileCheck %s

This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: add256:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: vmovdqa (%rdi), %ymm0
 ; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
 ; CHECK-NEXT: vpaddd 32(%rsi), %ymm1, %ymm1
 ; CHECK-NEXT: vpaddd (%rsi), %ymm0, %ymm0
 ; CHECK-NEXT: vmovdqa %ymm0, 32(%rdx)
 ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %d = load <16 x i32>, <16 x i32>* %a
 %e = load <16 x i32>, <16 x i32>* %b
 %f = add <16 x i32> %d, %e
 store <16 x i32> %f, <16 x i32>* %c
 ret void }

define void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: add512:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
 ; CHECK-NEXT: vpaddd (%rsi), %zmm0, %zmm0
 ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %d = load <16 x i32>, <16 x i32>* %a
 %e = load <16 x i32>, <16 x i32>* %b
 %f = add <16 x i32> %d, %e
 store <16 x i32> %f, <16 x i32>* %c
 ret void }

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: avg_v64i8_256:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
 ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
 ; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
 ; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
 ; CHECK-NEXT: vmovdqu %ymm1, (%rax)
 ; CHECK-NEXT: vmovdqu %ymm0, (%rax)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %1 = load <64 x i8>, <64 x i8>* %a
 %2 = load <64 x i8>, <64 x i8>* %b
 %3 = zext <64 x i8> %1 to <64 x i32>
 %4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vectorwidth"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1

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define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: pmaddwd_32_512:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
  ; CHECK-NEXT:  vpmaddwd (%rsi), %zmm0, %zmm0
  ; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yprtr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: psubus_64i8_max_256:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:  vmovdqa %ymm1, <32(16) %rdx)
  ; CHECK-NEXT:  vzeroupper
  ; CHECK-NEXT:  retq
  %A = load <32 x i16>, <32 x i16>* %APtr
  %B = load <32 x i16>, <32 x i16>* %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, <16 x i32>* %CPtr
  ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 unde
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 unde
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32 "min-legal-vector-width"="512" {
entry:

```
%3 = zext i32 %2 to i64
br label %vector.body
```

vector.body:

```
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body
```

middle.block:

```
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sad_16i8_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    movq $-1024, %rax # imm = 0xFC00
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB10_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
    ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
    ; CHECK-NEXT:    addq $4, %rax
    ; CHECK-NEXT:    jne .LBB10_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vextendsi128 %ymm1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
    ; CHECK-NEXT:    vpaddd %ymm0, %ymm0, %xmm0
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    br label %vector.body

    vector.body:
    %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
    %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
    %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
    %l = bitcast i8* %0 to <16 x i8>*
    %wide.load = load <16 x i8>, <16 x i8>* %l, align 4
    %2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx = add <16 x i32> %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: p2align 4, 0x90
; CHECK-NEXT: LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
}
vector.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zero initializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zero initializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:

%lessa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %lessa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i64> %lessa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx3, i32 12
ret i32 %12
}
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sbto16f32_256:
 ; CHECK: 
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: kshiftrw $8, %k0, %k1
 ; CHECK-NEXT: vpmovm2d %k1, %ymm0
 ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
 ; CHECK-NEXT: vpmovm2d %k0, %ymm1
 ; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
 ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
 ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}
define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sbto16f32_512:
 ; CHECK: 
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: vpmovm2d %k0, %zmm0
 ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
 ; CHECK-NEXT: vmovaps %zmm0, (%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, <16 x float>* %res
 ret void
}
define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: sbto16f64_256:
 ; CHECK: 
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtdq2pd %ymm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:  vcvtdq2pd %ymm2, %ymm2
; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: sbto16f64_512:
 ; CHECK:  # %bb.0:
 ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
 ; CHECK-NEXT:  vpmovm2d %k0, %zmm0
 ; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm1
 ; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
 ; CHECK-NEXT:  vcvtdq2pd %ymm0, %zmm0
 ; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
 ; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
 ; CHECK-NEXT:  vzeroupper
 ; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: ubto16f32_256:
 ; CHECK:  # %bb.0:
 ; CHECK-NEXT:  vpmovw2m %ymm0, %k0
 ; CHECK-NEXT:  kshiftrw $8, %k0, %k1
 ; CHECK-NEXT:  vpmovm2d %k1, %ymm0
 ; CHECK-NEXT:  vpsrlq $31, %ymm0, %ymm0
 ; CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
 ; CHECK-NEXT:  vpmovm2d %k0, %ymm1
 ; CHECK-NEXT:  vpsrlq $31, %ymm1, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
 ; CHECK-LABEL: ubto16f32_512:
 ; CHECK:      # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: vpmovm2d %k0, %zmm0
 ; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
 ; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
 ; CHECK-NEXT: vmovaps %zmm0, (%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq

%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: ubto16f64_256:
 ; CHECK:      # %bb.0:
 ; CHECK-NEXT: vpmovw2m %ymm0, %k0
 ; CHECK-NEXT: kshiftrw $8, %k0, %k1
 ; CHECK-NEXT: vpmovm2d %k1, %ymm0
 ; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
 ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
 ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
 ; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
 ; CHECK-NEXT: vpmovm2d %k0, %ymm2
 ; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
 ; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
 ; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
 ; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
 ; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
 ; CHECK-NEXT: vmovaps %ymm3, (%rdi)
 ; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
 ; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq

%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextract64x4 %l1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:       # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqub %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitialize
ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:       # %bb.0:
define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
#define 16 x i16 > test_16f32tosb_256:
; CHECK-LABEL: test_16f32tosb_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtps2dq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vcvtps2dq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: vcvtps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: vpmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: mul256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vmovdqa (%rsi), %ymm2

; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
ymm3[8],ymmm0[8],ymmm9[9],ymmm0[9],ymmm3[10],ymmm0[10],ymmm3[11],ymmm0[11],ymmm3[12],ymmm0[12],ymmm3[13 ]
,ymmm0[13],ymmm3[14],ymmm0[14],ymmm3[15],ymmm0[15],ymmm3[24],ymmm0[24],ymmm3[25],ymmm0[25],ymmm3[26],ymm
m0[26],ymmm3[27],ymmm0[27],ymmm3[28],ymmm0[28],ymmm3[29],ymmm0[29],ymmm3[30],ymmm0[30],ymmm3[31],ymmm0[ 31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm5 =
ymmm1[8],ymmm0[8],ymmm1[9],ymmm0[9],ymmm1[10],ymmm0[10],ymmm1[11],ymmm0[11],ymmm1[12],ymmm0[12],ymmm1[13 ]
,ymmm0[13],ymmm1[14],ymmm0[14],ymmm1[15],ymmm0[15],ymmm1[24],ymmm0[24],ymmm1[25],ymmm0[25],ymmm1[26],ymm
m0[26],ymmm1[27],ymmm0[27],ymmm1[28],ymmm0[28],ymmm1[29],ymmm0[29],ymmm1[30],ymmm0[30],ymmm1[31],ymmm0[ 31]
; CHECK-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT: vmovdqa {{.*#+}} ymm5 =
; CHECK-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT: vpunpcklwb {{.*#+}} ymm3 =
ymm3[0],ymmm0[0],ymmm3[1],ymmm0[1],ymmm3[2],ymmm0[2],ymmm3[3],ymmm0[3],ymmm3[4],ymmm0[4],ymmm3[5],ymmm0[ 5]
,ymm3[6],ymmm0[6],ymmm3[7],ymm3[7],ymmm0[7],ymm3[16],ymmm0[16],ymmm3[17],ymmm0[17],ymm3[18],ymmm0[18],ymm
m3[19],ymmm0[19],ymmm3[20],ymmm0[20],ymmm3[21],ymmm0[21],ymmm3[22],ymmm0[22],ymmm3[23],ymmm0[23]
; CHECK-NEXT: vpunpcklwb {{.*#+}} ymm1 =
ymmm1[0],ymmm0[0],ymmm1[1],ymmm0[1],ymmm1[2],ymmm0[2],ymmm1[3],ymmm0[3],ymmm1[4],ymmm0[4],ymmm1[5],ymmm0[ 5],ymmm1[6],ymmm0[6],ymmm1[7],ymmm0[7],ymmm1[16],ymmm0[16],ymmm1[17],ymmm0[17],ymmm1[18],ymmm0[18],ymmm1[ 19],ymmm0[19],ymmm1[20],ymmm0[20],ymmm1[21],ymmm0[21],ymmm1[22],ymmm0[22],ymmm1[23],ymmm0[23]
; CHECK-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-NEXT: vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm3 =
ymm0[8],ymmm0[8],ymmm2[9],ymmm0[9],ymmm2[10],ymmm0[10],ymmm2[11],ymmm0[11],ymmm2[12],ymmm0[12],ymmm2[13 ]
,ymmm0[13],ymmm2[14],ymmm0[14],ymmm2[15],ymmm0[15],ymmm2[24],ymmm0[24],ymmm2[25],ymmm0[25],ymmm2[26],ymm
m0[26],ymmm2[27],ymmm0[27],ymmm2[28],ymmm0[28],ymmm2[29],ymmm0[29],ymmm2[30],ymmm0[30],ymmm2[31],ymmm0[ 31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-NEXT: vpand %ymm5, %ymm3, %ymm3
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm2 =
ymm2[0],ymmm0[0],ymmm2[1],ymmm0[1],ymmm2[2],ymmm0[2],ymmm2[3],ymmm0[3],ymmm2[4],ymmm0[4],ymmm2[5],ymmm0[ 5],ymmm2[6],ymmm0[6],ymmm2[7],ymmm0[7],ymmm2[16],ymmm0[16],ymmm2[17],ymmm0[17],ymmm2[18],ymmm0[18],ymmm2[ 19],ymmm0[19],ymmm2[20],ymmm0[20],ymmm2[21],ymmm0[21],ymmm2[22],ymmm0[22],ymmm2[23],ymmm0[23]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  %d = load <64 x i8>, <64 x i8>* %a
  %e = load <64 x i8>, <64 x i8>* %b
  %f = mul <64 x i8> %d, %e
  store <64 x i8> %f, <64 x i8>* %c
ret void
}
ret void

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: mload_v4i32:
    ; CHECK:      # %bb.0:
    ; CHECK-NEXT: vptestnmd %xmm0, %xmm0, %k1
    ; CHECK-NEXT: vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
    ; CHECK-NEXT: retq
    %mask = icmp eq <4 x i32> %trigger, zeroinitializer
    %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
    ret <4 x i32> %res
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
    ; target triple = "x86_64-unknown-linux-gnu"
    
    define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) #0 {
        bb:
        %tmp = load <8 x i64>, <8 x i64>* %arg1
        store <8 x i64> %tmp, <8 x i64>* %arg
        ret void
    }
    
    define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
        bb:
        %tmp = alloca <8 x i64>, align 32
        %tmp2 = alloca <8 x i64>, align 32
        %tmp3 = bitcast <8 x i64>* %tmp to i8*
        call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
        call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %tmp)
        %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
        store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
        ret void
    }
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1, val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1)
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #2 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64> %arg1.val)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #3 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
This should promote

define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the "LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
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* /opt/cola/permits/1003069966_1646171678.18/0/opensaml-xacml-saml-impl-3-3-0-sources-
  jar/org/opensaml/xacml/profile/saml/impl/XACMLPolicyStatementTypeImplBuilder.java
* /opt/cola/permits/1003069966_1646171678.18/0/opensaml-xacml-saml-impl-3-3-0-sources-
  jar/org/opensaml/xacml/profile/saml/impl/XACMLPolicyQueryTypeImplBuilder.java
* /opt/cola/permits/1003069966_1646171678.18/0/opensaml-xacml-saml-impl-3-3-0-sources-
  jar/org/opensaml/xacml/profile/saml/impl/XACMLPolicyQueryTypeImpl.java
* /opt/cola/permits/1003069966_1646171678.18/0/opensaml-xacml-saml-impl-3-3-0-sources-
  jar/org/opensaml/xacml/profile/saml/impl/XACMLAuthzDecisionQueryTypeImplBuilder.java
* /opt/cola/permits/1003069966_1646171678.18/0/opensaml-xacml-saml-impl-3-3-0-sources-
  jar/org/opensaml/xacml/profile/saml/impl/ReferencedPoliciesTypeUnmarshaller.java
* /opt/cola/permits/1003069966_1646171678.18/0/opensaml-xacml-saml-impl-3-3-0-sources-
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Found in path(s):
* /opt/cola/permits/1002302858_1654023029.023189/0/xnio-api-3-0-7-ga-sources-jar/org/xnio/streams/Pipe.java

1.1624 kerberos 1.15.1 37.el7_7.2

1.1624.1 Available under license :

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- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
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1.1627 maven-toolchain 1.0
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1.1628 asm 6.2.1

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1.1629 wildfly-rts 14.0.1.Final

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

* * cvt - IEEE floating point formatting routines.
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* *

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* /opt/cola/permits/1001043402_1646171570.21/0/owasp-java-html-sanitizer-r239-sources-jar/org/owasp/html/examples/EbayPolicyExample.java
* /opt/cola/permits/1001043402_1646171570.21/0/owasp-java-html-sanitizer-r239-sources-jar/org/owasp/html/HtmlChangeListener.java
* /opt/cola/permits/1001043402_1646171570.21/0/owasp-java-html-sanitizer-r239-sources-jar/org/owasp/html/ElementAndAttributePolicies.java
* /opt/cola/permits/1001043402_1646171570.21/0/owasp-java-html-sanitizer-r239-sources-jar/org/owasp/html/Trie.java
* /opt/cola/permits/1001043402_1646171570.21/0/owasp-java-html-sanitizer-r239-sources-jar/org/owasp/html/HtmlSanitizer.java
* /opt/cola/permits/1001043402_1646171570.21/0/owasp-java-html-sanitizer-r239-sources-jar/org/owasp/html/StandardUrlAttributePolicy.java
* /opt/cola/permits/1001043402_1646171570.21/0/owasp-java-html-sanitizer-r239-sources-jar/org/owasp/html/TokenStream.java
* /opt/cola/permits/1001043402_1646171570.21/0/owasp-java-html-sanitizer-r239-sources-jar/org/owasp/html/
jar/org/owasp/html/ElementPolicy.java

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  jar/org/hibernate/sql/ordering/antlr/GeneratedOrderByFragmentParser.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1-
  jar/org/hibernate/sql/ordering/antlr/GeneratedOrderByFragmentRendererTokenTypes.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1-
  jar/org/hibernate/sql/ordering/antlr/OrderByTemplateTokenTypes.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1-
  jar/org/hibernate/sql/ordering/antlr/GeneratedOrderByLexer.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1-
  jar/org/hibernate/sql/ordering/antlr/OrderByByFragmentRenderer.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1-
  jar/org/hibernate/sql/ordering/antlr/OrderByTemplateTokenTypes.java

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 */
/**
* JTA platform implementation intended for use with WebSphere Application Server (WAS).
* <p/>
* WAS, unlike every other app server on the planet, does not allow direct access to the JTS TransactionManager.
* Instead, for common transaction-related tasks users must utilize a proprietary API known as
ExtendedJTATransaction.
* <p/>
* Even more unfortunate, the exact TransactionManagerLookup to use inside of WAS is highly dependent upon<ul>
*     <li>WAS version</li>
*     <li>the WAS container in which Hibernate will be utilized</li>
* </ul>
* <p/>
* This class is reported to work on WAS version 6 in any of the standard J2EE/Java EE component containers.
*
* @author Gavin King
* @author Jesper Udby
* @author Steve Ebersole
*/

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* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/engine/transaction/jta/platform/internal/WebSphereExtendedJtaPlatform.java
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* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/boot/model/source/internal/hbm/SingularAttributeSourceBasicImpl.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate/boot/model/source/internal/hbm/SingularAttributeSourceBasicImpl.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate/jpa/spi/TupleBuilderTransformer.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate/jpa/spi/TupleBuilderTransformer.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate/id/ExportableColumn.java
*/

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* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/exception/spi/SQLExceptionConverter.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/loader/plan/build/internal/spaces/CompositePropertyMapping.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/sql/ordering/antlr/Factory.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/internal/SessionOwnerBehavior.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/stat/internal/SessionStatisticsImpl.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/mapping/ValueVisitor.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/tuple/entity/DynamicMapEntityTypeUplizer.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/property/access/spi/GetterMethodImpl.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/persister/collection/QueryableCollection.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/loader/plan/exec/internal/FetchStats.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/engine/jdbc/cursor/internal/package-info.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/hql/spi/id/inline/AbstractInlineIdsDeleteHandlerImpl.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/boot/registry/selector/spi/StrategyCreator.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/engine/transaction/jta/platform/internal/SapNetWeaverJtaPlatform.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/dialect/function/TrimFunctionTemplate.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/criterion/InExpression.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/boot/archive/internal/JarProtocolArchiveDescriptor.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/tuple/PojoInstantiator.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/hql/spi/id/global/GlobalTemporaryTableBulkIdStrategy.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/jpa/internal/util/PessimisticNumberParser.java
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* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/tool/hbm2ddl/TableMetadata.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/tool/hbm2ddl/TableMetadata.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/loader/plan/build/internal/returns/AbstractCollectionReference.java
* /opt/cola/permits/1091709495_1654022951.8234527/0/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/loader/plan/build/internal/returns/AbstractCollectionReference.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/loader/plan/spi/CompositeQuerySpace.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/type/ManyToManyType.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/engine/jdbc/SerializableClobProxy.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/cfg/SecondPass.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/UnSupportedLockAttemptException.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/bytecode/internal/javassist/BulkAccessorException.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/query/criteria/internal/compile/InterpretedParameterMetadata.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/tool/hbm2ddl/ImportSqlCommandExtractor.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/id/SequenceGenerator.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/jdbc/BatchFailedException.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/loader/jaxb/hbm/spi/ResultMappingBindingDefinition.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/persister/entity/Loadable.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/loader/plan/build/internal/spaces/AbstractQuerySpace.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/loader/plan/build/internal/returns/AbstractEntityReference.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/service/spi/Startable.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/hql/internal/ast/util/AliasGenerator.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/loader/plan/build/internal/spaces/AbstractQuerySpace.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/mapping/PrimaryKey.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/InvalidMappingException.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/loader/jaxb/hbm/spi/EntityIdentifierDefinition.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/loader/plan/build/internal/returns/AbstractEntityReference.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/loader/plan/build/internal/spaces/AbstractQuerySpace.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/mapping/PrimaryKey.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/InvalidMappingException.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/loader/jaxb/hbm/EmbeddableSourceVirtualImpl.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/engine/jdbc/connections/spi/AbstractMultiTenantConnectionProvider.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/criterion/SimpleSubqueryExpression.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/id/insert/Binder.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/type/PrimitiveType.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1.jar/org/hibernate/sql/ordering/antlr/OrderByTranslation.java
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* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/id/IntegralDataTypeHolder.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/tuple/entity/EntityMetamodel.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/engine/jdbc/env/spi/JdbcEnvironment.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/param/DynamicFilterParameterSpecification.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/sql/Update.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/loader/plan/exec/spi/AliasResolutionContext.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/query/criteria/internal/query/QueryStructure.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/query/criteria/internal/expression/UnaryOperatorExpression.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/query/spi/QueryParameterBindingTypeResolver.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/query/criteria/internal/QueryStructure.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/cfg/Environment.java
* /opt/cola/permits/1091709495_1654022951.82345270/hibernate-core-5-3-6-final-sources-1-
jar/org/hibernate/bytecode/enhance/internal/bytebuddy/CodeTemplates.java
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* /opt/cola/permits/1091709495_1654022951.8234527/o/hibernate-boot/model/query/NativeQueryInterpreterInitiator.java
* /opt/cola/permits/1091709495_1654022951.8234527/o/hibernate-core-5-3-6-final-sources-1-jar/org/hibernate/id/enhanced/NoopOptimizer.java
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/**
 * Used to pass along the CDI BeanManager, if any, to be used.
 *
 * According to JPA, strictly, the BeanManager should be passed in
 * at boot-time and be ready for use at that time. However not all
 * environments can do this (WildFly e.g.). To accommodate such
 * environments, Hibernate provides 2 options:
 *
 * * a proprietary CDI extension SPI (that we have proposed to
 *   the CDI spec group as a standard option) that can be used
 *   to provide delayed BeanManager access. To use this solution,
 *   the reference passed as the BeanManager during bootstrap
 *   should be typed as [@link ExtendedBeanManager]
 *   delayed access to the BeanManager reference. Here, Hibernate
 *   will not access the reference passed as the BeanManager during
 *   bootstrap until it is first needed. Note however that this has
 *   the effect of delaying any deployment problems until after
 *   bootstrapping.
 *
 * This setting is used to configure Hibernate ORM's access to
 * the BeanManager (either directly or via [@link ExtendedBeanManager]).
 */
Found in path(s):
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*
* /
/**
 * A hash table supporting full concurrency of retrievals and
 * adjustable expected concurrency for updates. This class obeys the
 * same functional specification as {<a href="java.util.Hashtable">Hashtable</a>}, and
 * includes versions of methods corresponding to each method of
 * <tt>Hashtable</tt>. However, even though all operations are
 * thread-safe, retrieval operations do not entail locking,
 * and there is any support for locking the entire table
 * in a way that prevents all access. This class is fully
 * interoperable with <tt>Hashtable</tt> in programs that rely on its
 * thread safety but not on its synchronization details.
 * */
*<p/>
*<p>Retrieval operations (including <tt>get</tt>) generally do not
* block, so may overlap with update operations (including
* <tt>put</tt> and <tt>remove</tt>). Retrievals reflect the results
* of the most recently <em>completed</em> update operations holding
* upon their onset. For aggregate operations such as <tt>putAll</tt>
* and <tt>clear</tt>, concurrent retrievals may reflect insertion or
* removal of only some entries. Similarly, Iterators and
* Enumerations return elements reflecting the state of the hash table
* at some point or since the creation of the iterator/enumeration.
* They do not throw {<a href="java.util.ConcurrentModificationException">ConcurrentModificationException</a>}
* However, iterators are designed to be used by only one thread at a time.
* */
*<p/>
*<p>The allowed concurrency among update operations is guided by
* the optional <tt>concurrencyLevel</tt> constructor argument
* (default <tt>16</tt>), which is used as a hint for internal sizing. The
* table is internally partitioned to try to permit the indicated
* number of concurrent updates without contention. Because placement
* in hash tables is essentially random, the actual concurrency will
* vary. Ideally, you should choose a value to accommodate as many
* threads as will ever concurrently modify the table. Using a
* significantly higher value than you need can waste space and time,
* and a significantly lower value can lead to thread contention. But
* overestimates and underestimates within an order of magnitude do
* not usually have much noticeable impact. A value of one is
* appropriate when it is known that only one thread will modify and
* all others will only read. Also, resizing this or any other kind of
* hash table is a relatively slow operation, so, when possible, it is
* a good idea to provide estimates of expected table sizes in
* constructors.
* <p/>
* <p/>This class and its views and iterators implement all of the
* <em>optional</em> methods of the {@link Map} and {@link Iterator}
* interfaces.
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* <p/>
* <p/>
* <p/>Like {@link java.util.Hashtable} but unlike {@link HashMap}, this class
* does <em>not</em> allow <tt>null</tt> to be used as a key or value.
* 
* @param <K> the type of keys maintained by this map
* @param <V> the type of mapped values
* 
* @author Doug Lea
*/

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#
org.hibernate.jpa.HibernatePersistenceProvider

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*/
/**
* Subclass used to simply instantiation of singular attributes representing an entity's
* version.
*/

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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5.0.4-sources-8.jar/joptsimple/ParserRules.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5.0.4-sources-8.jar/joptsimple/ArgumentList.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5.0.4-sources-8.jar/joptsimple/NoArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5.0.4-sources-8.jar/joptsimple/ArgumentList.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5.0.4-sources-8.jar/joptsimple/ArgumentList.java
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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5.0.4-sources-8.jar/joptsimple/ArgumentList.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5.0.4-sources-8.jar/joptsimple/ArgumentList.java
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*/

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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/util/EnumConverter.java

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1.1647 file 5.11 35.el7

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1.1648 fdisk 2.23.2

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1.1650 guava 18.0

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jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
* /opt/cola/permits/1110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyVersion.java
* /opt/cola/permits/1110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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* /opt/cola/permits/1110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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  jar/io/netty/handler/codec/http/cookie/CookieUtil.java
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  jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
  jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /opt/cola/permits/110676722_1606843814.86/0/netty-codec-http-4-1-34-final-sources-1-
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  jar/io/netty/handler/codec/http/CookieUtil.java
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```
## Special Recognition ##
```

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire build system we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix,
AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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* Terry Parker <tparker@google.com> (Google Inc.) https://bugs.eclipse.org/365499
* Stephan Herrmann - Contribution for
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
/*====================================================================*/

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* Contributors:
  * IBM Corporation - initial API and implementation
  * Stephan Herrmann - Contributions for
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
*bug 390883 - [1.8][compiler] Unable to override default method
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
*Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in @NonNullByDefault
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 446442 - [1.8] merge null annotations from super methods

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/ajde/ui/swing/BrowserViewManager.java
jar/org/aspectj/ajde/ui/swing/CompilerMessagesCellRenderer.java
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jar/org/aspectj/ajde/ui/swing/TreeViewBuildConfigEditor.java
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jar/org/aspectj/ajde/ui/swing/SwingTreeViewNodeRenderer.java
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jar/org/aspectj/ajde/ui/swing/OptionsFrame.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/ajde/ui/swing/AJButtonMenuCombo.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/ajde/ui/swing/SimpleStructureViewToolPanel.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/ajde/ui/swing/BuildConfigPopupMenu.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/ajde/ui/swing/BrowserViewTreeListener.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/ajde/ui/swing/MultiStructureViewPanel.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/ajde/ui/swing/StructureTreeManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/ajde/ui/swing/BrowserView.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/ajde/ui/swing/BuildProgressPanel.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/ajde/ui/swing/DefaultBuildProgressMonitor.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/ajde/ui/swing/UpdateConfigurationDialog.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-
jar/org/aspectj/weaver/Dump.java

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*   [bug 345305] Compiler misidentifies a case of "variable can only be null"
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/ICompilationUnit.java
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* Tom Tromey - Contribution for bug 125961
* Tom Tromey - Contribution for bug 159641
* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 359721 - [options] add command line option for new warning token "resource"
*bug 365208 - [compiler][batch] command line options for annotation based null analysis
*bug 374605 - Unreasonable warning for enum-based switch statements
*bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*Bug 408815 - [batch][null] Add CLI option for COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
* Jesper S Moller - Contributions for
*bug 407297 - [1.8][compiler] Control generation of parameter names by option
* Mat Booth - Contribution for bug 405176
* Frits Jalvingh - fix for bug 533830.
******************************************************************************************

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* Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
******************************************************************************************

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
* bridge method
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
* Stephan Herrmann - Contribution for
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 427438 - [1.8][compiler] NPE at
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/DeclareTypeErrorOrWarning.java
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* bug 292478 - Report potentially null across variable assignment
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
  * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
  * Bug 473178
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Bug 185682 - Increment/decrement operators mark local variables as read
Bug 458396 - NPE in CodeStream.invoke()

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** bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK 
** bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations 
** bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null" 
** bug 383368 - [compiler][null] syntactic null analysis for field references 
** bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check 
** bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields 
** bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking 
** Bug 453483 - [compiler][null][loop] Improve null analysis for loops 
** Bug 455723 - Nonnull argument not correctly inferred in loop 
** Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch 
** Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode 
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/ajde/ui/javaoptions/JavaOtherOptionsPanel.java
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator

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 * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference" 
 * Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression 
 * Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter 
 * Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation. 
 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for 
 * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambda 
 * Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version 
 * Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type 
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IGenericType.java

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*   *bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   *Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   *Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   *Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   *Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
*   *Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   * Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Stephan Herrmann - Contribution for
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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/ *bug 342671 - ClassCastException: org.aspectj.org.eclipse.jdt.internal.compiler.lookupSourceTypeBinding cannot */
/ be cast to org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding */
/ *Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type) */
/ *bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis */
/ *Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099 */
/ *Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault */
/ *Bug 434600 - Incorrect null analysis error reporting on type parameters */
/ *Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E" */
/ *Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet> */
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 * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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jar/org/aspectj/org/eclipse/jdt/core/dom/Statement.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/compiler/CategorizedProblem.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/JavaConventions.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/search/IJavaSearchConstants.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/IJavaElementDelta.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/dom/ASTMatcher.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/dom/ASTVisitor.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/util/CommentRecorderParser.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/ASTRewriteAnalyzer.java
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jar/org/aspectj/org/eclipse/jdt/core/dom/CompilationUnit.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/WorkingCopyOwner.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/CharacterLiteral.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/lookup/EclipseAnnotationConvertor.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/AbstractCompilerAdapter.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/bcel/IfFinder.java

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* IBM Corporation - fix for 342598, 382590
* Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/SignatureUtils.java
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*bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*bug 404728 - [1.8][NPE on QualifiedSuperReference error

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*Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

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* Kelly Campbell <kellyc@google.com> - Hangs in SourceMapper during java proposals - https://bugs.eclipse.org/bugs/show_bug.cgi?id=281575
* Stephan Herrmann - Contribution for Bug 380048 - error popup when navigating to source files
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* Andy Clement 23-06-06 added extras for @AJ
* *******************************************************************/

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/runtime/internal/AroundClosure.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/runtime/internal/AroundClosure.java
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* Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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* John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303  
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for  
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* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - https://bugs.eclipse.org/458208

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/AbstractModule.java
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"*
*bug 383368 - [compiler][null] syntactic null analysis for field references*

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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 364890 - BinaryTypeBinding should use char constants from Util
*bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*bug 388800 - [1.8][compiler] detect default methods in class files
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*Bug 454182 - Internal compiler error when using 1.8 compliance for simple project
*Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning

* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

* Sebastian Zarnekow - Contributions for
*bug 544921 - [performance] Poor performance with large source files

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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed via BinaryTypeBinding

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*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Stephan Herrmann - Contribution for
*bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/lang/annotation/AdviceName.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/MissingTypesGuesser.java
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*     Bug 420953 - [subwords] Constructors that don't match prefix not found
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*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Stephan Herrmann - Contributions for
  * bug 349326 - [1.7] new warning for missing try-with-resources
  * bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
  *bug 186342 - [compiler][null] Using annotations for null checking
  *bug 358903 - Filter practically unimportant resource leak warnings
  *bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
  *bug 382069 - [null] Make the null analysis consider JUnit's assertNotEqual similarly to assertions
  *Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
  Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
  *Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
  * Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
  * bug 386692 - Missig "unused" warning on "autowired" fields
  * Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
  * bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/UnresolvedTypeVariableReferenceType.java
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* Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*Bug 427438 - [1.8][compiler] NullPointerException in
*Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()? 
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
*Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*Bug 434297 - [1.8] NPE in LambdaExpression.analyseCode with lambda expression nested in a conditional expression
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
* Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 378674 - "The method can be declared as static" is wrong
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*     Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
*     Till Brychcy - Contributions for
*     Bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*     Bug 473178
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* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 331649 - [compiler][null] consider null annotations for fields
* Bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 458396 - NPE in CodeStream.invoke() 
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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* *bug 365519 - editorial cleanup after bug 186342 and bug 365387
* *bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* *bug 368589 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* *bug 385626 - @NonNull fails across loop boundaries
* *bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* *bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
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Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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* Sergey Stupin - contributions for adding annotation processing support to ajc

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  * PARC  initial implementation
  * Andy Clement 6Jul05 generics - signature attribute
  * Abraham Nevado

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/ClassFilePool.java
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*
* QNX - Initial API and implementation
* Andrew Ferguson (Symbian) - Provide B-tree deletion routine
* Markus Schorn (Wind River Systems)

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* wharley@bea.com - derived base class from BatchMessagerImpl
* 
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* IBM Corporation - initial API and implementation
* Vladimir Piskarev <pisv@1c.ru> - Building large Java element deltas is really slow - https://bugs.eclipse.org/443928

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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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*        bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac  
*        bug 349326 - [1.7] new warning for missing try-with-resources  
*        bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource  
*        bug 358903 - Filter practically unimportant resource leak warnings  
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.  
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files  
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099  
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.  
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)  
* Bug 426792 - [1.8][inference][impl] generify new type inference engine  
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.  
* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds  
* Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName  
* Bug 431408 - Java 8 (1.8) generics bug  
* Bug 435962 - [RC2] StackOverflowError when building  
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables  
* Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict  
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.  
* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables  
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable  
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull  
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis  
* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics  
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief  
* Bug 462790 - [null] NPE in Expression.computeConversion()  
* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages  
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version  
* Bug 527554 - [1.8.3] Compiler support for JEP 286 Local-Variable Type  
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/rewrite/TargetSourceRangeComputer.java
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* Bug 384380 - False positive on a “Potential null pointer access” after a continue
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

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  * Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
    * Bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
    * Bug 292478 - Report potentially null across variable assignment
    * Bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
    * Bug 354554 - [null] conditional with redundant condition yields weak error message
    * Bug 349326 - [1.7] new warning for missing try-with-resources
    * Bug 345305 - [compiler][null] Compiler misidentifies a case of “variable can only be null”
    * Bug 383368 - [compiler][null] syntactic null analysis for field references
    * Bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
    * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
    * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
    * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
    * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
    * Bug 426078 - [1.8][null] VerifyError when conditional expression passed as an argument
    * Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
    * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
    * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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*bug 332637 - Dead Code detection removing code that isn't dead
*bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
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  * Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
  * Stephan Herrmann - Contributions for

- **bug 319201** - [null] no warning when unboxing SingleNameReference causes NPE
- **bug 349326** - [1.7] new warning for missing try-with-resources
- **bug 186342** - [compiler][null] Using annotations for null checking
- **bug 358903** - Filter practically unimportant resource leak warnings
- **bug 370639** - [compiler][resource] restore the default for resource leak warnings
- **bug 345305** - [compiler][null] Compiler misidentifies a case of "variable can only be null"
- **bug 388996** - [compiler][resource] Incorrect 'potential resource leak'
- **bug 379784** - [compiler] "Method can be static" is not getting reported
- **bug 379834** - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
- **bug 388281** - [compiler][null] inheritance of null annotations as an option
- **bug 392862** - [1.8][compiler][null] Evaluate null annotations on array types
- **bug 394768** - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
- **bug 381445** - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
- **bug 331649** - [compiler][null] consider null annotations for fields
- **bug 383368** - [compiler][null] syntactic null analysis for field references
- **bug 382069** - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
- **bug 382350** - [1.8][compiler] Unable to invoke inherited default method via Lsuper.m() syntax
- **bug 404649** - [1.8][compiler] detect illegal reference to indirect or redundant super
- **bug 403086** - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
- **bug 403147** - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
- **Bug 392099** - [1.8][compiler][null] Apply null annotation on types for null analysis
- **Bug 415043** - [1.8][null] Follow-up re null type annotations after bug 392099
- **Bug 405569** - Resource leak check false positive when using DbUtils.closeQuietly
- **Bug 411964** - [1.8][null] leverage null type annotation in foreach statement
- **Bug 417295** - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
- **Bug 400874** - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
- **Bug 423504** - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
- **Bug 424710** - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
- **Bug 425152** - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
- **Bug 424205** - [1.8] Cannot infer type for diamond type with lambda on method invocation
- **Bug 424415** - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
- **Bug 426366** - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
- **Bug 426290** - [1.8][compiler] Inference + overloading => wrong method resolution ?
- **Bug 427483** - [Java 8] Variables in lambdas sometimes can't be resolved
- **Bug 426996** - [1.8][inference] try to avoid Expression.unresolve()?
- **Bug 428352** - [1.8][compiler] Resolution errors don't always surface
*Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)

*Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference

*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

*Bug 456487 - [1.8][null] Nullable type variant of @NonNull-constrained type parameter causes grief

*Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

*Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNull

*Bug 470958 - [1.8] Unable to convert lambda

*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.

* Jesper S Moller - Contributions for

*Bug 378674 - "The method can be declared as static" is wrong

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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*bug 363858 - [dom] early throwing of AbortCompilation causes NPE in CompilationUnitResolver
*Bug 466279 - [hovering] IAE on hover when annotation-based null analysis is enabled
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/tools/ajdoc/Main.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - inconsistent initialization of classpath container backed by external class folder, see https://bugs.eclipse.org/320618

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*bug 186342 - [compiler][null] Using annotations for null checking
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*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 401030 - [1.8][null] Null analysis support for lambda methods.
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
*Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect “throws E”
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/ResolvableTypeList.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ITDFieldPrinter.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ast/IntertypeMemberClassDeclaration.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ITDFieldPrinter.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ast/IntertypeMemberClassDeclaration.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/CommonPrinter.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-
jar/org/aspectj/weaver/patterns/NotSignaturePattern.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/lookup/PushinCollector.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/patterns/NotSignaturePattern.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/AbstractSignaturePattern.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/AndSignaturePattern.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/patterns/OrSignaturePattern.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/lookup/PushinCollector.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/ClasspathJMod.java
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tyueug@bea.com - initial API and implementation
olivier_thomann@ca.ibm.com - add hashCode() and equals(...) methods

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* Jesper Steen Møller <jesper@selskabet.org> - contributions for:
* Bug 531046: [10] ICodeAssist#codeSelect support for 'var'
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*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*     Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
*     Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*******************************************************************************
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Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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*Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspektjweaver-1-9-5-sources-jar/org/aspectj/weaver/reflect/ReflectionBasedResolvedMemberImpl.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspektjrt-1-9-5-sources-jar/org/aspectj/lang/internal/lang/PlaceHolder.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspektjtools-1-9-5-sources-jar/org/aspectj/lang/internal/lang/PlaceHolder.java

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* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] IndexOutOfBoundsException in TokenManager - https://bugs.eclipse.org/462945
* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments -

/*============================================================================
https://bugs.eclipse.org/458208
* IBM Corporation - DOM AST changes for JEP 354
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* Bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* Bug 349326 - [1.7] new warning for missing try-with-resources
* Bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* Bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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* IBM Corporation - implemented methods from IBinding
* IBM Corporation - renamed from ResolvedDefaultValuePair to DefaultValuePairBinding
* IBM Corporation - Fix for 328969
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Jesper Steen Moller - Contributions for
* Bug 406973 - [compiler] Parse MethodParameters attribute
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checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn’t handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/.

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jar/org/aspectj/org/eclipse/jdt/core/util/IClassFileReader.java
* /opt/cola/permits/1017214397_1654022815.5909169/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/util/IConstantPoolConstant.java
* /opt/cola/permits/1017214397_1654022815.5909169/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/CreateTypeMemberOperation.java
* /opt/cola/permits/1017214397_1654022815.5909169/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/CompilationUnitStructureRequestor.java
* /opt/cola/permits/1017214397_1654022815.5909169/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/AddJarFileToIndex.java
* /opt/cola/permits/1017214397_1654022815.5909169/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/index/DiskIndex.java
* /opt/cola/permits/1017214397_1654022815.5909169/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/dom/SimpleName.java
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* /opt/cola/permits/1017214397_1654022815.5909169/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/JavaSearchParticipant.java
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* /opt/cola/permits/1017214397_1654022815.5909169/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/internal/core/DeltaProcessingState.java
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jar/org/aspectj/org/eclipse/jdt/internal/core/index/Index.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ISourceElementRequestor.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionJavadocParser.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnLocalName.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/lang/annotation/RequiredTypes.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/lang/annotation/RequiredTypes.java

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* Stephan Herrmann - Contribution for
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 425460 - [1.8][inference]Type not inferred on stream.toArray
*Bug 426792 - [1.8][inference][impl] generify new type inference engine
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************

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*Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
*Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*Bug 462768 - [null] NPE when using linked folder for external annotations
*******************************************************************************

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/**
 * Returns the classpath entry that is making a reference to this classpath entry. For entry kinds
 * { [@link CPE_LIBRARY ], the return value is the entry that is representing the JAR that includes
 * <code>this</code> in the MANIFEST.MF file's Class-Path section. For entry kinds other than
 * { [@link CPE_LIBRARY ], this returns <code>null</code>. For those entries that are on the raw classpath
 * already,
 * this returns <code>null</code>.
 * 
 * It is possible that multiple library entries refer to the same entry
 * via the MANIFEST.MF file. In those cases, this method returns the first classpath entry
 * that appears in the raw classpath. However, this does not mean that the other referencing
 * entries do not relate to their referenced entries.
 * See { [@link JavaCore#getReferencedClasspathEntries(IClasspathEntry, IJavaProject) } for
 * more details.
 * */
 */
* @return the classpath entry that is referencing this entry or <code>null</code> if
* not applicable.
* @since 3.6
*/

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* Stephan Herrmann - Contributions for
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 387612 - Unreachable catch block...exception is never thrown from the try
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 401456 - Code compiles from javac/intellij, but fails from eclipse
* bug 401271 - StackOverflowError when searching for a methods references
* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic

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Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter

Bug 413958 - Function override returning inherited Generic Type

Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations

Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables

Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding

Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation

Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context

Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution?

Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vars argument

Bug 426590 - [1.8][compiler] Compiler error with tenary operator

Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler

Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)

Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"

Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method

Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved

Bug 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing

Bug 427218 - [1.8][compiler] Verify error varargs + inference

Bug 426836 - [1.8] special handling for return type in references to method getClass()?

Bug 427628 - [1.8] regression : The method * is ambiguous for the type *

Bug 428352 - [1.8][compiler] Resolution errors don't always surface

Bug 428166 - [1.8][compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings

Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location

Bug 428811 - [1.8][compiler] Type witness unnecessarily required

Bug 429424 - [1.8][inference] Problem inferring type of method's parameter

Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class

Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference

Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference

Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error

Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable

Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[]] despite @NonNullByDefault

Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.

* Jesper S Moller - Contributions for

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

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* IBM Corporation - initial API and implementation
* Genady Beriozkin - added support for reporting assignment with no effect
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 292478 - Report potentially null across variable assignment
* bug 335093 - [compiler][null] minimal hook for future null annotation support
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 427438 - [1.8][compiler] NPE at
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ICompilerAdapter.java
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}
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read

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*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*Bug 417758 - [1.8][null] Null safety compromise during array creation.
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/BinaryContainer.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java
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* Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749
* Stephan Herrmann - Contribution for
*bug 331649 - [compiler][null] consider null annotations for fields
*******************************************************************************

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* tyeung@bea.com - initial API and implementation
* IBM Corporation - changed interface to extend IBinding
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* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[]]] despite
* @NonNullByDefault
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator

Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator

Jesper S Møller <jesper@selskabet.org> - Contributions for

bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

bug 529556 - [18.3] Add content assist support for `var` as a type

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* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly,
especially when max line width is set - https://bugs.eclipse.org/303519
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*bug 365519 - editorial cleanup after bug 186342 and bug 365387
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/batch/ClasspathJmod.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/patterns/WildChildFinder.java

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* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
* Bug 416885 - [1.8][compiler][incompatibleClassChange error (edit)]
* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
* Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Bug 434556 - Broken class file generated for incorrect annotation usage
* Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
* Stephan Herrmann - Contribution for
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Olivier Tardieu tardieu@us.ibm.com - Contributions for
* Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
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Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 331649 - [compiler][null] consider null annotations for fields
*Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
* Jesper S Møller <jesper@selskabet.org> - Contributions for
*Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* *
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* - requestClasspathContainerUpdate(IPath, IJavaProject, IClasspathContainer)
* IBM Corporation - allow initializers to provide a readable description
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* - getDescription(IPath, IJavaProject)
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* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
* Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
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* AndyClement extracted as self contained type from Lint type (4-Aug-06)
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/LintMessage.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources.jar/org/aspectj/weaver/tools/WeavingAdaptor.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/Shadow.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/Shadow.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/internal/core/builder/AjBuildManager.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/AdviceKind.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/bcel/BcelClassWeaver.java

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*bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/apache/bcel/generic/LocalVariableTag.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/CrosscuttingMembersSet.java
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  * Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
  * Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
    * bug 185682 - Increment/decrement operators mark local variables as read
    * bug 186342 - [compiler][null] Using annotations for null checking
    * bug 365519 - editorial cleanup after bug 186342 and bug 365387
    * bug 374605 - Unreasonable warning for enum-based switch statements
    * bug 384870 - [compiler] @Deprecated annotation not detected if preceded by another annotation
    * bug 393719 - [compiler] inconsistent warnings on iteration variables
    * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
    * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
    * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
    * Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
    * Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
    * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
    * Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
    * Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
    * Bug 427282 - [1.8][compiler] AIOOB (-1) at org.aspectj.org.eclipse.jdt.internal.compiler.ast.ASTNode.java
    * Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
    * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
    * Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
    * Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
    * Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
    * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
    * Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
    * Bug 446442 - [1.8] merge null annotations from super methods
    * Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
  * Jesper S Moller - Contributions for
    * bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.

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*Bugs 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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Bug 378674 - "The method can be declared as static" is wrong

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/reflect/JavaLangTypeToResolvedTypeConverter.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/reflect/JavaLangTypeToResolvedTypeConverter.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/messages.properties
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/index/messages.properties
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/builders/NameEnvironment.java

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*   - Another problem with inner classes referenced from jars or class folders: "The type ... cannot be resolved"
* Stephan Herrmann - Contribution for
*   *Bug 392727 - Cannot compile project when a java file contains $ in its file name
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
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* Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
* Bug 456487 - [1.8][null] Nullable type variant of @NonNull-constrained type parameter causes grief
* Till Brychcy - Contribution for
* Bug 473713 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1

Cache the derived type, tagging it as a derivative of both the key type and the naked type.
E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not needed for correctness, but for annotated object reuse. We provide two alternate ways to annotate a type:

Taking parameterized types as an example, a call to getParameterizedType can be made with annotations to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as the key, in the latter with List<String> as the key.

Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these alternate code paths. Unless care is exercised, we will end up with duplicate objects (that share the same TypeBinding.id => correctness is not an issue, but memory wastage is)

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/nd/java/NdTypeId.java
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  jar/org/aspectj/org/eclipse/jdt/core/search/MethodNameMatchRequestor.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
  jar/org/aspectj/org/eclipse/jdt/core/search/IRestrictedAccessMethodRequestor.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
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  jar/org/aspectj/org/eclipse/jdt/internal/core/search/MethodNameMatchRequestorWrapper.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
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* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 446442 - [1.8] merge null annotations from super methods
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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* Bug 342671 - ClassCastException: org.aspectj.org.eclipse.jdt.internal.compiler.lookupSourceTypeBinding cannot be cast to org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416181 - [1.8][compiler][null] Invalid assignment is not rejected by the compiler
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434600 - Incorrect null analysis error reporting on type parameters
**Bug 435570** - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

**Bug 456508** - Unexpected RHS PolyTypeBinding: `<code-snippet>

**Bug 466713** - Null Annotations: NullPointerException using `<int @Nullable []>` as Type Param

* Andy Clement - Contributions for

**Bug 383624** - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
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  * Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference expressions

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* Stephan Herrmann - Contribution for
* Bug 402028 - [1.8][compiler] null analysis for reference expressions
* Bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J involved
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
* Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
* Bug 438945 - [1.8] NullPointerException InferenceContext18.checkExpression in java 8 with generics, primitives, and overloading
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Bug 466713 - NullableInference: NullPointerException using <int @Nullable []> as Type Param
* Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 370930 - NonNull annotation not considered for enhanced for loops
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*Bug 417758 - [1.8][null] Null safety compromise during array creation.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 455723 - Nonnull argument not correctly inferred in loop
* Andy Clement - Contributions for
  * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation

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*Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/weaver/PoliceExtensionUse.java
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  * NonStaticAccessToStaticField
  * NonStaticAccessToStaticMethod
  * Task
  * ExpressionShouldBeAVariable
  * AssignmentHasNoEffect
* IBM Corporation - added the following constants
  * TooManySyntheticArgumentSlots
  * TooManyArrayDimensions
  * TooManyBytesForStringConstant
  * TooManyMethods
  * TooManyFields
  * NonBlankFinalLocalAssignment
  * ObjectCannotHaveSuperTypes
  * MissingSemiColon
  * InvalidParenthesizedExpression
  * EnclosingInstanceInConstructorCall
  * BytecodeExceeds64KLimitForConstructor
  * IncompatibleReturnTypeForNonInheritedInterfaceMethod
  * UnusedPrivateMethod
  * UnusedPrivateConstructor
  * UnusedPrivateType
  * UnusedPrivateField
  * IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
  * InvalidExplicitConstructorCall
* IBM Corporation - added the following constants
  * PossibleAccidentalBooleanAssignment
  * SuperfluousSemicolon
  * IndirectAccessToStaticField
  * IndirectAccessToStaticMethod
  * IndirectAccessToStaticType
  * BooleanMethodThrowingException
  * UnnecessaryCast
  * UnnecessaryArgumentCast
  * UnnecessaryInstanceOf
  * FinallyMustCompleteNormally
  * UnusedMethodDeclaredThrownException
  * UnusedConstructorDeclaredThrownException
  * InvalidCatchBlockSequence
  * UnqualifiedFieldAccess
* IBM Corporation - added the following constants
  * Javadoc
  * JavadocUnexpectedTag
  * JavadocMissingParamTag
  * JavadocMissingParamName
* JavadocDuplicateParamName
* JavadocInvalidParamName
* JavadocMissingReturnTag
* JavadocDuplicateReturnTag
* JavadocMissingThrowsTag
* JavadocMissingThrowsClassName
* JavadocInvalidThrowsClass
* JavadocDuplicateThrowsClassName
* JavadocMissingSeeReference
* JavadocInvalidSeeReference
* JavadocInvalidSeeHref
* JavadocInvalidSeeArgs
* JavadocMissing
* JavadocInvalidTag
* JavadocMessagePrefix
* EmptyControlFlowStatement
* IBM Corporation - added the following constants
* IllegalUsageOfQualifiedTypeReference
* InvalidDigit
* IBM Corporation - added the following constants
* ParameterAssignment
* FallthroughCase
* IBM Corporation - added the following constants
  * UnusedLabel
  * UnnecessaryNLSTag
  * LocalVariableMayBeNull
  * EnumConstantsCannotBeSurroundedByParenthesis
  * JavadocMissingIdentifier
  * JavadocNonStaticTypeFromStaticInvocation
  * RawTypeReference
  * NoAdditionalBoundAfterTypeVariable
  * UnsafeGenericArrayForVarargs
  * IllegalAccessFromTypeVariable
  * AnnotationValueMustBeArrayInitializer
  * InvalidEncoding
  * CannotReadSource
  * EnumStaticFieldInInInitializerContext
  * ExternalProblemNotFixable
  * ExternalProblemFixable
* IBM Corporation - added the following constants
* AnnotationValueMustBeAnEnumConstant
* OverridingMethodWithoutSuperInvocation
* MethodMustOverrideOrImplement
* TypeHidingTypeParameterFromType
* TypeHidingTypeParameterFromMethod
* TypeHidingType
* IBM Corporation - added the following constants
NullLocalVariableReference
PotentialNullLocalVariableReference
RedundantNullCheckOnNullLocalVariable
NullLocalVariableComparisonYieldsFalse
RedundantLocalVariableNullAssignment
NullLocalVariableInstanceOfYieldsFalse
RedundantNullCheckOnNonNullLocalVariable
NonNullLocalVariableComparisonYieldsFalse
IBM Corporation - added the following constants
InvalidUsageOfTypeParametersForAnnotationDeclaration
InvalidUsageOfTypeParametersForEnumDeclaration
IBM Corporation - added the following constants
RedundantSuperinterface
Benjamin Muskalla - added the following constants
MissingSynchronizedModifierInInheritedMethod
Stephan Herrmann - added the following constants
UnusedObjectAllocation
PotentiallyUnclosedCloseable
UnclosedCloseable
UnclosedCloseableAtExit
ExplicitlyClosedAutoCloseable
RequiredNonNullButProvidedNull
RequiredNonNullButProvidedPotentialNull
RequiredNonNullButProvidedUnknown
NullAnnotationNameMustBeQualified
IllegalReturnValueRedefinition
IllegalRedefinitionToNonNullParameter
IllegalDefinitionToNonNullParameter
ParameterLackingNonNullAnnotation
ParameterLackingNullableAnnotation
PotentialNullMessageSendReference
RedundantNullCheckOnNonNullMessageSend
CannotImplementIncompatibleNullness
RedundantNullAnnotation
RedundantNonNullDefaultAnnotation
RedundantNonNullDefaultAnnotationPackage
RedundantNonNullDefaultAnnotationType
RedundantNonNullDefaultAnnotationMethod
ContradictoryNullAnnotations
IllegalAnnotationFor BaseType
RedundantNullCheckOnSpecdNonNullLocalVariable
SpecdNonNullLocalVariableComparisonYieldsFalse
RequiredNonNullButProvidedSpecdNullable
MissingDefaultCase
MissingEnumConstantCaseDespiteDefault
UninitializedLocalVariableHintMissingDefault
UninitializedBlankFinalFieldHintMissingDefault
*ShouldReturnValueHintMissingDefault
*IllegalModifierForInterfaceDefaultMethod
*InheritedDefaultMethodConflictsWithOtherInherited
*ConflictingNullAnnotations
*ConflictingInheritedNullAnnotations
*UnsafeElementTypeConversion
*ArrayReferencePotentialNullReference
*DereferencingNullableExpression
*NullityMismatchingTypeAnnotation
*NullityMismatchingTypeAnnotationSuperHint
*NullityUncheckedTypeAnnotationDetail
*NullityUncheckedTypeAnnotationDetailSuperHint
*NullableFieldReference
*UninitializedNonNullField
*UninitializedNonNullFieldHintMissingDefault
*NonNullMessageSendComparisonYieldsFalse
*RedundantNullCheckOnNonNullSpecdField
*NonNullSpecdFieldComparisonYieldsFalse
*NonNullExpressionComparisonYieldsFalse
*RedundantNullCheckOnNonNullExpression
*ReferenceExpressionParameterNullityMismatch
*ReferenceExpressionParameterNullityUnchecked
*ReferenceExpressionReturnValueRedef
*ReferenceExpressionReturnValueRedefUnchecked
*DuplicateInheritedDefaultMethods
*SuperAccessCannotBypassDirectSuper
*SuperCallCannotBypassOverride
*ConflictingNullAnnotations
*ConflictingInheritedNullAnnotations
*UnsafeElementTypeConversion
*PotentialNullUnboxing
*NullUnboxing
*NonNullExpressionReference
*PotentialNonNullExpressionReference
*RedundantNullCheckAgainstNullableType
*NullAnnotationUnsupportedLocation
*NullAnnotationUnsupportedLocationAtType
*NullityMismatchTypeArgument
*ContradictoryNullAnnotationsOnBound
*UnsafeNullnessCast
*ContradictoryNullAnnotationsInferred
*NonNullDefaultDetailIsNotEvaluated
*NullNotCompatibleToFreeTypeVariable
*NullityMismatchAgainstFreeTypeVariable
*ImplicitObjectBoundNonNullDefault
*IllegalParameterNullityRedefinition
*ContradictoryNullAnnotationsInferredFunctionType
*IllegalReturnNullityRedefinitionFreeTypeVariable
*UnlikelyCollectionMethodArgumentType
*UnlikelyEqualsArgumentType
*Jesper S Moller - added the following constants
*TargetTypeNotAFuncitonalInterface
*OuterLocalMustBeEffectivelyFinal
*IllegalModifiersForPackage
*DuplicateAnnotationNotMarkedRepeatable
*DisallowTargetForContainerAnnotation
*RepeatedAnnotationWithContainerAnnotation
*ContainingAnnotationMustHaveValue
*ContainingAnnotationHasNonDefaultMembers
*ContainingAnnotationHasWrongValueType
*ContainingAnnotationHasShorterRetention
*RepeatableAnnotationHasTargets
*RepeatableAnnotationTargetMismatch
*RepeatableAnnotationIsDocumented
*RepeatableAnnotationIsInherited
*RepeatableAnnotationWithRepeatingContainerAnnotation
*VarLocalMultipleDeclarators
*VarLocalCannotBeArray
*VarLocalReferencesItself
*VarLocalWithoutInitializer
*VarLocalInitializedToNull
*VarLocalCannotBeArrayInitializers
*VarLocalCannotBeLambda
*VarLocalCannotBeMethodReference
*VarIsReserved
*VarIsReservedInFuture
*VarIsNotAllowedHere
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Taking the binding of QTR as an example, there could be different annotatable components, but we come in a with a single binding, e.g:

- `@T Z;` type => Z annotations => `[@T]`
- `@T Y.@T Z` type => Z annotations => `[@T][@T]`
- `@T X.@T Y.@T Z` type => Z annotations => `[@T][@T][@T]`
- `java.lang.@T X.@T Y.@T Z` type => Z annotations => `[@T][@T][@T][@T]`

in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their layout for proper attribution.

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bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
bug 383368 - [compiler][null] syntactic null analysis for field references
bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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* Bug 407191 - [1.8] Binary access support for type annotations
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/apache/bcel/classfile/annotation/NameValuePair.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistSourceField.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistImportContainer.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/bcel/ClassPathManager.java
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work) *
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- Stephan Herrmann - Contribution for Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation

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* * Stephan Herrmann - Contributions for
* * bug 325755 - [compiler] wrong initialization state after conditional expression
* * bug 320170 - [compiler] [null] Whitebox issues in null analysis
* * bug 292478 - Report potentially null across variable assignment
* * bug 332637 - Dead Code detection removing code that isn't dead
* * bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
* * bug 349326 - [1.7] new warning for missing try-with-resources
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* * wharley@bea.com - initial API and implementation
* * IBM Corporation - fix for 342598
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* IBM Corporation - Java 8 support
* het@google.com - Bug 427943 - The method org.aspectj.org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException

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* Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters

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  * Bug 383368 - [compiler][null] syntactic null analysis for field references
  * Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking

Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.

Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations

Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"

Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

Andy Clement - Contributions for

Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* Contributors:
* John Kew (vmware) initial implementation
* Lyor Goldstein (vmware) add support for weaved class being re-defined
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/tools/cache/AbstractIndexedFileCacheBacking.java

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* Bug 342671 - ClassCastException: org.aspectj.org.eclipse.jdt.internal.compiler.lookupSourceTypeBinding cannot be cast to org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/TypeVariableDeclaringElement.java
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
* Stephan Herrmann - Contribution for
* *Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* *Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* *Bug 427438 - [1.8][compiler] NPE at org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
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- Till Brychcy - Contributions for
  - Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/BinaryField.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/AccessRestriction.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IDependent.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/util/IInnerClassesAttributeEntry.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/core/search/indexing/ReadWriteMonitor.java

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* Andy Clement start of generics upgrade...
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* Jesper Steen Møller <jesper@selskabet.org> - contributions for:
* Bug 531046: [10] ICodeAssist#codeSelect support for 'var'
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* John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/UnresolvedType.java

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* Stephan Herrmann - Contribution for Bug 378024 - Ordering of comments between imports not preserved
* John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/nd/java/NdMethodAnnotationData.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/ltw/LTWWorld.java

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  * Bug 400710 - [1.8][compiler] Synthetic access to default method generates wrong code
  * Bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
  * Bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtype
  * Jesper S Moller - Contributions for
  * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
    * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
    * Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
    * Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
    * Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
    * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
    * Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
    * Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
      * Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments of a lambda that also capture this
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 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
 * Bug 407191 - [1.8] Binary access support for type annotations
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/tools/PointcutParser.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/bcel/asm/AsmDetector.java
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* Alex Vasseur new factory methods for variants of JP
* Abraham Nevado new factory methods for collapsed SJP
* Andy Clement new factory methods that rely on LDC <class>
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* Palo Alto Research Center, Incorporated - AspectJ adaptation
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*******************************************************************************
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
*Bug 458396 - NPE in CodeStream.invoke()
* Jesper S Moller - Contributions for
*bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 378674 - "The method can be declared as static" is wrong
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* wharley@bea.com - initial API and implementation
* philippe.marschall@netcetera.ch - Fix for 338370
* IBM Corporation - Fix for validating relative name
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*     Stephan Herrmann - Contribution for
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*     [18.3] Compiler support for JEP 286 Local-Variable Type

Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
Bug 456924 - StackOverflowError during compilation
Bug 462790 - [null] NPE in Expression.computeConversion()

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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for 
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/ConstantPoolReader.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/batch/ClasspathSourceJar.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/ITypeRoot.java
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* Contributors:
* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/eclipse/jdt/internal/formatter/linewrap/CommentWrapExecutor.java

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 */
* Jesper Steen Møller - Contributions for
* bug 529552 - [18.3] Add 'var' in completions
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* Alex Blewitt - alex_blewitt@yahoo.com https://bugs.eclipse.org/bugs/show_bug.cgi?id=171066
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*bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contribution for
*bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*bug 388954 - [1.8][compiler] detect default methods in class files
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
*bug 390883 - [1.8][compiler] Unable to override default method
*bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*******************************************************************************
*bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*Bug 420080 - [1.8] Overridden Default method is reported as duplicated
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* NPE with a method with explicit this and a following incomplete parameter
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for Bug 407191 - [1.8] Binary access support for type annotations

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* * Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters
* * Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
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* * IBM Corporation - implemented methods from IBinding
* * IBM Corporation - renamed from ResolvedMemberValuePair to MemberValuePairBinding
* * jgarms@bea.com - Fix for IllegalStateException
* * IBM Corporation - Fix for 223225
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* alex.panchenko@gmail.com - Bug 470535 - Bug in UserLibrary.hashCode()
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* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*bug 317046 - Exception during debugging when hover mouse over a field
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*******************************************************************************
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*Bug 426792 - [1.8][inference][impl] generify new type inference engine
*Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 435692 - [RC2] StackOverFlowError when building
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
  Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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* IBM Corporation - added constant AccDefault
* IBM Corporation - added constants AccBridge and AccVarargs for J2SE 1.5
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* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
* Stephan Herrmann - Contribution for
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*******************************************************************************/

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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365835 - [compiler][null] inconsistent error reporting.
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*bug 401030 - [1.8][null] Null analysis support for lambda methods.
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*Bug 417758 - [1.8][null] Null safety compromise during array creation.
*Bug 430150 - [1.8][null] stricter checking against type variables
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 455723 - Nonnull argument not correctly inferred in loop
* Jesper S Moller - Contributions for
*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*bug 185682 - Increment/decrement operators mark local variables as read
*bug 331649 - [compiler][null] consider null annotations for fields
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 447088 - [null] @NotNull on fully qualified field type is ignored
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 458396 - NPE in CodeStream.invoke()
*Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
*    Till Brychcy - Contribution for
*    bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
******************************************************************************
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*    bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*    bug 349326 - [1.7] new warning for missing try-with-resources
*b wreckage 186342 - [compiler][null] Using annotations for null checking
*b wreckage 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*b wreckage 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*b wreckage 383690 - [compiler] location of error re uninitialized final field should be aligned
*b wreckage 331649 - [compiler][null] consider null annotations for fields
*b wreckage 388368 - [compiler][null] syntactic null analysis for field references
*b wreckage 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject.Inject into account
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*    Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*    Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
*    Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*    bug 386692 - Missing "unused" warning on "autowired" fields
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* Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* Bug 401030 - [1.8][null] Null analysis support for lambda methods.
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/bcel/ExtensibleURLClassLoader.java
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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 366063 - Compiler should not add synthetic @NonNull annotations
*bug 374605 - Unreasonable warning for enum-based switch statements
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*bug 383368 - [compiler][null] syntactic null analysis for field references
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper Steen Moller - Contributions for
*bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*bug 407297 - [1.8][compiler] Control generation of parameter names by option
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*     IBM Corporation - initial API and implementation
*     Samrat Dhillon samrat.dhillon@gmail.com - Search for method references is
*         returning methods as overriden even if the superclass's method is
*         only package-visible - https://bugs.eclipse.org/357547
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* Stephan Herrmann - Contribution for
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178

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* John Kew (vmware) initial implementation
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*Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/AjcMemberMaker.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/NewParentTypeMunger.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/PatternNode.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/MemberKind.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/BcelField.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/PerCflow.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/BasicToken.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/lookup/HelperInterfaceBinding.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/bcel/Range.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/bcel/Range.java
jar/org/aspectj/weaver/bcel/BcelMethod.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/NotPointcut.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/patterns/PerClause.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/patterns/ExactTypePattern.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/AjAttribute.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/NewConstructorTypeMunger.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/NewParentTypeMunger.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/IClassWeaver.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/ajc/BuildArgParser.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ast/CrosscuttingMembers.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/ajdt/internal/compiler/ast/IClassWeaver.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contributions for
* *bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* *bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* *bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* * Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
******************************************************************************/

Found in path(s):
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver/ast/And.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver/ast/Not.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/IAjAttribute.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver/1-9-5-sources-jar/org/aspectj/weaver/model/AsmRelationshipProvider.java

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*     PARC  initial implementation
*     Adrian Colyer, Andy Clement, overhaul for generics, Abraham Nevada
* *******************************************************************/
jar/org/aspectj/weaver/World.java
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* Contributors:
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
*************************************************************/

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* /opt/cola/permits/1017214397_165402815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationInfo.java
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* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contributions for
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 265744 - Enum switch should warn about missing default
*bug 374605 - Unreasonable warning for enum-based switch statements
*bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*************************************************************/

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java
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* IBM Corporation - added J2SE 1.5 support
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* Stephan Herrmann - Contribution for
* Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 462768 - [null] NPE when using linked folder for external annotations
*******************************************************************************/

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/AbstractClassFile.java
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*   Stephan Herrmann - Contributions for
*   Bug 463330 - [dom] DOMFinder doesn't find the VariableBinding corresponding to a method argument
*   Bug 464463 - [dom] DOMFinder doesn't find an ITypeParameter
*   Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
*******************************************************************************

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/util/DOMFinder.java
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* Contributors:
*   wharley@bea.com - initial API and implementation
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* Contributors:
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  * Jesper S Moller - Contributions for
    * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
    * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
    * Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)
  * Stephan Herrmann - Contribution for
    * bug 401030 - [1.8][null] Null analysis support for lambda methods.
    * bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
    * bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
    * bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
    * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
    * Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
    * Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
    * Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
    * Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
    * Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
    * Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
    * Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
    * Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
    * Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
    * Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint
    * Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
    * Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
    * Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
    * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
    * Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
    * Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
    * Bug 453483 - [compiler][null][loop] Improve null analysis for loops
    * Bug 455723 - Nonnull argument not correctly inferred in loop
    * Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
    * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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 * Contributors:
 * mkaufman@bea.com - initial API and implementation
 * IBM - renamed from PreReconcileCompilationResult to ReconcileContext
 * IBM - rewrote spec
 *
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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 338303 - Warning about Redundant assignment conflicts with definite assignment
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 376053 - [compiler][resource] Strange potential resource leak problems
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* bug 393719 - [compiler] inconsistent warnings on iteration variables
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 382789 - [compiler][null] warn when syntactically-nonnul expression is compared against null
* bug 376590 - Private fields with @Inject are ignored by unused field validation
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402028 - [1.8][compiler] null analysis for reference expressions
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>

Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings

Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations

Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations

Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.

Bug 430150 - [1.8][null] stricter checking against type variables

Bug 434600 - Incorrect null analysis error reporting on type parameters

Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type

Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method_ due to incompatible nullness constraints"

Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java

Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

Bug 446442 - [1.8] merge null annotations from super methods

Bug 455723 - Nonnull argument not correctly inferred in loop

Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()

Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()

Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations

Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.

* Jesper S Moller <jesper@selskabet.org> - Contributions for bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression

* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration

* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable

* bug 412151 - [1.8][compiler] Check repeating annotation's collection type

* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains

* Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds

* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected

* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for

* bug 386692 - Missing "unused" warning on "autowired" fields

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/GeneratedReferenceTypeDelegate.java
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* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajdt/core/dom/AjASTFactory.java
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**
** bug 186342 - [compiler][null] Using annotations for null checking
** bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
** bug 331649 - [compiler][null] consider null annotations for fields
** Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
** Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
** Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
** Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
** Bug 417295 - [1.8][null]Massage type annotated null analysis to gel well with deep encoded type bindings.
** Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
** Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
** Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
** Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
** Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
** Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
** Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
** Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
**
** Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
** Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
** Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
** Jesper S Moller <jesper@selskabet.org> - Contributions for
** Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
** Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
** Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
** Bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*/
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* bug 383368 - [compiler][null] syntactic null analysis for field references
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* bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* bug 292478 - Report potentially null across variable assignment,
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 412293 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
* Bug 458396 - NPE in CodeStream.invoke()
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Jesper S Moller - <jesper@selskabet.org> - Contributions for
*  bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* bug 378674 - "The method can be declared as static" is wrong
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  *bug 349326 - [1.7] new warning for missing try-with-resources
  *bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  *bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
  *bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
  *Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
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  *Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
  *Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
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  *Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
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  *Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
  *Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  *Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
  *Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized
type due to bound(s) mismatch
* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 416182 - [1.8][null] Contradictory null annotations not rejected
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
* Bug 435805 - [1.8][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 456508 - Unexpected RHS PolTypeBinding for: <code-snippet>
* Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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*Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
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 * *bug 349326 - [1.7] new warning for missing try-with-resources
 * *bug 374605 - Unreasonable warning for enum-based switch statements
 * *bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
 * *bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
 * *bug 401030 - [1.8][null] Null analysis support for lambda methods.
 * *Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
 * *Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
 * Jesper S Moller - Contributions for
 * *bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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 * *bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
 * Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
 * Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults

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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*bug 413958 - Function override returning inherited Generic Type
******************************************************************************/
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*Bug 446442 - [1.8] merge null annotations from super methods
*Bug 457079 - Regression: type inference
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    * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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    * Bug 406973 - [compiler] Parse MethodParameters attribute

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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*Bug 440282 - [resource] Resource leak detection false negative with empty finally block
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* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
* Bug 416885 - [1.8][compiler][incompatibleClassChange error (edit)]
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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 * bug 332637 - Dead Code detection removing code that isn't dead
 * bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
 * bug 349326 - [1.7] new warning for missing try-with-resources
 * bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
 *bug 358903 - Filter practically unimportant resource leak warnings
 *bug 345305 - [compiler][null] Compiler misidentifies a case of ”variable can only be null"
 *bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
 *bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
 *bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
 *bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
 *bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
 *Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
 *Bug 371614 - [compiler][resource] Wrong ”resource leak” problem on return/throw inside while loop
 *Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
* Jesper Steen Moller - Contributions for
* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contribution for
* Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************

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* IBM Corporation - initial API and implementation
* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 401017 - [compiler][null] casted reference to @NonNull field lacks a warning
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
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* Bug 466279 - [hovering] IAE on hover when annotation-based null analysis is enabled
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/DeclareAnnotation.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/reflect/AnnotationFinder.java
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*  
* John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/ConflictingSimpleNameFinder.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportComment.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportComparator.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/util/UtilClassLoader.java

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* Contributors:
  * Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
  * Till Brychcy - Java Code Formatter breaks code if single line comments contain unicode escape - https://bugs.eclipse.org/471090

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* Stephan Herrmann - Contribution for
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*bug 358903 - Filter practically unimportant resource leak warnings
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 435962 - [RC2] StackOverFlowError when building
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

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* IBM Corporation - added the following constants:
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*   COMPILER_PB_STATIC_ACCESS_RECEIVER
*   COMPILER_TASK_TAGS
*   CORE_CIRCULAR_CLASSPATH
*   CORE_INCOMPLETE_CLASSPATH
* IBM Corporation - added run(IWorkspaceRunnable, IProgressMonitor)
* IBM Corporation - added exclusion patterns to source classpath entries
* IBM Corporation - added specific output location to source classpath entries
* IBM Corporation - added the following constants:
*   CORE_JAVA_BUILD_CLEAN_OUTPUT_FOLDER
*   CORE_JAVA_BUILD_RECREATE_MODIFIED_CLASS_FILES_IN_OUTPUT_FOLDER
*   CLEAN
* IBM Corporation - added getClasspathContainerInitializer(String)
* IBM Corporation - added the following constants:
*   CODEASSIST_ARGUMENT_PREFIXES
*   CODEASSIST_ARGUMENT_SUFFIXES
*   CODEASSIST_FIELD_PREFIXES
*   CODEASSIST_FIELD_SUFFIXES
*   CODEASSIST_LOCAL_PREFIXES
*   CODEASSIST_LOCAL_SUFFIXES
*   CODEASSIST_STATIC_FIELD_PREFIXES
*   CODEASSIST_STATIC_FIELD_SUFFIXES
*   COMPILER_PB_CHAR_ARRAY_IN_STRING_CONCATENATION
* IBM Corporation - added the following constants:
*   COMPILER_PB_LOCAL_VARIABLE_HIDING
*   COMPILER_PB_SPECIAL_PARAMETER_HIDING_FIELD
*   COMPILER_PB_FIELD_HIDING
*   COMPILER_PB_POSSIBLE_ACCIDENTAL_BOOLEAN_ASSIGNMENT
*   CORE_INCOMPATIBLE_JDK_LEVEL
*   VERSION_1_5
*   COMPILER_PB_EMPTY_STATEMENT
* IBM Corporation - added the following constants:
*   COMPILER_PB_INDIRECT_STATIC_ACCESS
*   COMPILER_PB_BOOLEAN_METHOD_THROWING_EXCEPTION
*   COMPILER_PB_UNNECESSARY_CAST
* IBM Corporation - added the following constants:
*   COMPILER_PB_INVALID_JAVADOC
*   COMPILER_PB_INVALID_JAVADOC_TAGS
COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_WHEN_OVERRIDEING
* IBM Corporation - added the following constants:
  * TIMEOUT_FOR_PARAMETER_NAME_FROM_ATTACHED_JAVADOC
* IBM Corporation - added the following constants:
  * COMPILER_PB_FALLTHROUGH_CASE
  * COMPILER_PB_PARAMETER_ASSIGNMENT
  * COMPILER_PB_NULL_REFERENCE
* IBM Corporation - added the following constants:
  * CODEASSIST_DEPRECATION_CHECK
* IBM Corporation - added the following constants:
  * COMPILER_PB_POTENTIAL_NULL_REFERENCE
  * COMPILER_PB_REDUNDANT_NULL_CHECK
* IBM Corporation - added the following constants:
  * COMPILER_PB_UNUSED_PARAMETER_INCLUDE_DOC_COMMENT_REFERENCE
* IBM Corporation - added the following constants:
  * COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_INCLUDED_DOC_COMMENT_REFERENCE
* IBM Corporation - added the following constants:
  * COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION
  * COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_NO_TAG
  * COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_RETURN_TAG
  * COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_ALL_TAGS
* IBM Corporation - added the following constants:
  * COMPILER_PB_REDUNDANT_SUPERINTERFACE
* IBM Corporation - added the following constant:
  * COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_EXEMPT_EXCEPTION_AND_THROWABLE
* IBM Corporation - added getOptionForConfigurableSeverity(int)
* Benjamin Muskalla - added COMPILER_PB_MISSING_SYNCHRONIZED_ON_INHERITED_METHOD
* Stephan Herrmann - added COMPILER_PB_UNUSED_OBJECT_ALLOCATION
* Stephan Herrmann - added COMPILER_PB.SuppressOptionalErrors
* Stephan Herrmann - added the following constants:
  * COMPILER_PB_UNCLOSED_CLOSEABLE
  * COMPILER_PB_POTENTIALLY_UNCLOSED_CLOSEABLE
  * COMPILER_PB_EXPLICITLY_CLOSED_AUTOCLOSEABLE
  * COMPILER_ANNOTATION_NULL_ANALYSIS
  * COMPILER_NULLABLE_ANNOTATION_NAME
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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 367203 - [compiler][null] detect assigning null to nonnull argument
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 443347 - [1.8][null] @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable>[] as Type Param
*Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*Bug 471611 - Error on hover on call to generic method with null annotation
  Jesper Steen Moller - Contributions for
*Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
  Jesper S Moller - Contributions for
*bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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  *      Jesper Steen Møller - Contributions for
  *      bug 529552 - [18.3] Add 'var' in completions
  *      Bug 529556 - [18.3] Add content assist support for 'var' as a type

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* Bug 331649 - [compiler][null] consider null annotations for fields
* Bug 383368 - [compiler][null] syntactic null analysis for field references
* Jesper S Moller - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong

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* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
* Bug 388630 - @NonNull diagnostics at line 0
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
* Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException

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*bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*bug 292478 - Report potentially null across variable assignment
*bug 335093 - [compiler][null] minimal hook for future null annotation support
*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 430150 - [1.8][null] stricter checking against type variables
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Jesper S Moller - Contributions for
*Bug 378674 - "The method can be declared as static" is wrong
*Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*Bug 529556 - [18.3] Add content assist support for ‘var’ as a type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
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 * wharley@bea.com - initial API and implementation
 * IBM Corporation - Fix for bug 341494
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  * /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/bridge/Version.java

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  * /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/ExposeTypeMunger.java

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*   *bug 383368 - [compiler][null] syntactic null analysis for field references
*   *bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*                                                                             */

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/tools/AbstractTrace.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/tools/CommonsTraceFactory.java

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* Ray V. (voidstar@gmail.com) - Contribution for bug 282988
* Jesper S Moller - Contribution for bug 402173
* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/PerTypeWithin.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/patterns/PerTypeWithin.java

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  * Lyor Goldstein (vmware)add support for weaved class being re-defined

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* bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 385626 - @NonNull fails across loop boundaries
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 376263 - Bogus "Potential null pointer access" warning
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*bug 406384 - Internal error with I20130413
*Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*Bug 455723 - Nonnull argument not correctly inferred in loop
*Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
* Jesper S Moller - contributions for
*bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
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*bug 185682 - Increment/decrement operators mark local variables as read
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
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*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/StringLiteral.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceTypeElementInfo.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/OrLocator.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/MethodDeclaration.java

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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch

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 *     John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303
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 *bug 331649 - [compiler][null] consider null annotations for fields
 *Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 *Bug 458396 - NPE in CodeStream.invoke()
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* Erling Ellingsen - patch for bug 125570
* Stephan Herrmann - Contribution for
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Sebastian Zarnekow - Contribution for
* Bug 544921 - [performance] Poor performance with large source files
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 *bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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* *bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
* *bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* *bug 378674 - "The method can be declared as static” is wrong

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jar/org/aspectj/ajde/ui/swing/OptionsPanel.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-
jar/org/aspectj/ajde/ui/GlobalViewProperties.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-
jar/org/aspectj/ajde/ui/internal/TreeStructureViewBuilder.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-
jar/org/aspectj/bridge/MessageWriter.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-
jar/org/aspectj/lang/reflect/MemberSignature.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/tools/ajbrowser/Main.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-
jar/org/aspectj/tools/ajbrowser/TopFrame.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-
jar/org/aspectj/util/PartialOrder.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/lang/NoAspectBoundException.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
jar/org/aspectj/tools/ajbrowser/ui/swing/TopFrame.java
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jar/org/aspectj/ajde/IdeUIAdapter.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/runtime/reflect/InitializerSignatureImpl.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/runtime/reflect/AdviceSignatureImpl.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/ajde/internal/StructureUtilities.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/lang/reflect/AdviceSignature.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/runtime/reflect/CatchClauseSignatureImpl.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/runtime/reflect/SignatureImpl.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/util/FileUtil.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/tools/ajbrowser/uui/BrowserUIAdapter.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/CustomMungerFactory.java
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* *Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
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/* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519 */
/* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] IndexOutOfBoundsException in TokenManager - https://bugs.eclipse.org/462945 */
/* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Bad line breaking in Eclipse javadoc comments - https://bugs.eclipse.org/348338 */
/* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for */
/* Bug 473178 */
/* *************************************************************************/

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/* *bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code */
/* Harry Terkelsen (het@gmail.com) - Bug 449262 - Allow the use of third-party Java formatters */
/* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519 */
/* Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - https://bugs.eclipse.org/458208 */
/* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for */
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*Bug 429813 - [1.8][dom ast] IMETHODBINDING#GETJAVELEMENT() should return IMETHOD for lambda
*Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*******************************************************************************

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* Bug 320618 - inconsistent initialization of classpath container backed by external class folder
* Bug 346010 - [model] strange initialization dependency in OptionTests
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jar/org/aspectj/weaver/patterns/EllipsisTypePattern.java  
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/patterns/EllipsisTypePattern.java  
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/patterns/NoTypePattern.java  

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bug 186342 - [compiler][null] Using annotations for null checking
bug 365519 - editorial cleanup after bug 186342 and bug 365387
bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
bug 383368 - [compiler][null] syntactic null analysis for field references
bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Jesper S Moller <jesper@selskabet.org> - Contributions for
bug 378674 - "The method can be declared as static" is wrong

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* Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
* Stephan Herrmann - Contributions for
*bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*bug 374605 - Unreasonable warning for enum-based switch statements
*bug 393719 - [compiler] inconsistent warnings on iteration variables
*bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*bug 401035 - [1.8] A few tests have started failing recently
* Jesper S Moller - Contributions for
*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*bug 393192 - Incomplete type hierarchy with > 10 annotations
*bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*******************************************************************************
Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/eclipse/jdt/internal/compiler/parser/TheOriginalJDTParserClass.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/reflect/ArgNameFinder.java
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* Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
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* Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/SimpleSetOfCharArray.java

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* Bug 349326 - [1.7] new warning for missing try-with-resources
* Bug 358903 - Filter practically unimportant resource leak warnings
* Bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
* Bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject.Inject into account
* Bug 382069 - [null] Make the null analysis consider JUnit's assertNotEqual similarly to assertions
* Bug 405669 - Resource leak check false positive when using DbUtils.closeQuietly
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 425183 - [1.8][inference] make CaptureBinding18 safe
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
  * Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
  * Bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <spyvesdev@gmail.com> - Contribution for
  * Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/StructuralPropertyDescriptor.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/ConstructorDeclarationPattern.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/AptBinaryLocalVariableBinding.java

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* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 265744 - Enum switch should warn about missing default
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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  * Terry Parker <tparker@google.com> - DeltaProcessor misses state changes in archive files, see https://bugs.eclipse.org/bugs/show_bug.cgi?id=357425
  * Thirumala Reddy Mutchukota <thirumala@google.com> - Avoid optional library classpath entries validation - https://bugs.eclipse.org/bugs/show_bug.cgi?id=412882
  * Stephan Herrmann - Contribution for
  * Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
  * Bug 462768 - [null] NPE when using linked folder for external annotations
    * Bug 465296 - precedence of extra attributes on a classpath container
  * Karsten Thoms - Bug 532505 - Reduce memory footprint of ClasspathAccessRule

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*  mkaufman@bea.com - initial API as ICompilationParticipant
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jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnExportReference.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnUsesQualifiedTypeReference.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnProvidesImplementationsQualifiedTypeReference.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/asm/AsmManager.java
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  * Sergey Prigogin (Google) - initial API and implementation
  * Based on lookup3.c, by Bob Jenkins [ @link "http://burtleburtle.net/bob/c/lookup3.c"]
  * Here is the original comment by Bob Jenkins:

---
  *
  * These are functions for producing 32-bit hashes for hash table lookup.
  * hashword(), hashlittle(), hashlittle2(), hashbig(), mix(), and final()
  * are externally useful functions. Routines to test the hash are included
  * if SELF_TEST is defined. You can use this free for any purpose. It's in
  * the public domain. It has no warranty.
  *
  * You probably want to use hashlittle(). hashlittle() and hashbig()
  * hash byte arrays. hashlittle() is is faster than hashbig() on
  * little-endian machines. Intel and AMD are little-endian machines.
  * On second thought, you probably want hashlittle2(), which is identical to
  * hashlittle() except it returns two 32-bit hashes for the price of one.
  * You could implement hashbig2() if you wanted but I haven't bothered here.
  *
  * If you want to find a hash of, say, exactly 7 integers, do
  * a = i1;  b = i2;  c = i3;
  * mix(a, b, c);
  * a += i4; b += i5; c += i6;
  * mix(a, b, c);
  * a += i7;
  * finalMix(a, b, c);
  * then use c as the hash value. If you have a variable length array of
  * 4-byte integers to hash, use hashword(). If you have a byte array (like
  * a character string), use hashlittle(). If you have several byte arrays, or
  * a mix of things, see the comments above hashlittle().
  *
  * Why is this so big? I read 12 bytes at a time into 3 4-byte integers,
  * then mix those integers. This is fast (you can do a lot more thorough
  * mixing with 12*3 instructions on 3 integers than you can with 3 instructions
  * on 1 byte), but shoehorning those bytes into integers efficiently is messy.

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  * Stephan Herrmann - Contributions for
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
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  * tyeung@bea.com - initial API and implementation
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
    Bug 407191 - [1.8] Binary access support for type annotations
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  * Stephan Herrmann - Contributions for
*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 426792 - [1.8][inference][impl] generify new type inference engine
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 431581 - Eclipse compiles what it should not
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 446442 - [1.8] merge null annotations from super methods
*Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave &lt;ulrich.grave@gmx.de&gt; - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. &lt;pyyesdev@gmail.com&gt; - Contribution for
* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
* Sebastian Zarnekow - Contributions for
*bug 544921 - [performance] Poor performance with large source files
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/NewMemberClassTypeMunger.java
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*bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
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* tyeung@bea.com - initial API and implementation
* IBM Corporation - changed interface to extend IBinding
* IBM Corporation - renamed from IResolvedMemberValuePair to IMemberValuePairBinding
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* Bug 331649 - [compiler][null] consider null annotations for fields
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* Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
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*
* Jesper S Moller - Contributions for
*Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*******************************************************************************/

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/Opcodes.java
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* Vladimir Piskarev <pisv@1c.ru> - Thread safety of OpenableElementInfo - https://bugs.eclipse.org/450490
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* David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125
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*bug 328281 - visibility leaks not detected when analyzing unused field in private class
*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*bug 366063 - Compiler should not add synthetic @NonNull annotations
*bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*bug 386356 - Type mismatch error with annotations and generics
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Till Brychcy - Contributions for
* bug 415269 - NonNullByDefault is not always inherited to nested classes
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Sebastian Zarnekow - Contributions for
*bug 544921 - [performance] Poor performance with large source files
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*   bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*   bug 186342 - [compiler][null] Using annotations for null checking
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* Bug 320841 - TypeConverters don't set enclosingType
* Bug 353474 - type converters should include more annotations
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/ResolvedMemberImpl.java

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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/TypeVariableReference.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/internal/lang/reflect/InterTypeConstructorDeclarationImpl.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/internal/lang/annotation/InterTypeMethodDeclaration.java
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/bridge/context/PinpointingMessageHandler.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/bridge/context/NoSuchAdviceException.java
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* /opt/cola/permits/101724397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/lang/reflect/InterTypeConstructorDeclaration.java
* /opt/cola/permits/101724397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-jar/org/aspectj/weaver/joinPointSignature.java
* /opt/cola/permits/101724397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/internal/lang/reflect/DeclareAnnotation.java
* /opt/cola/permits/101724397_1654022815.5909169/0/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/tools/PointcutBasedPerClauseImpl.java
* /opt/cola/permits/101724397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/internal/lang/reflect/PerClauseImpl.java
* /opt/cola/permits/101724397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjrt-1-9-5-sources-jar/org/aspectj/tools/PointcutDesignatorHandler.java
* /opt/cola/permits/101724397_1654022815.5909169/0/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/tools/PerClauseImpl.java
* /opt/cola/permits/101724397_1654022815.5909169/0/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/tools/ContextBasedMatcher.java
* /opt/cola/permits/101724397_1654022815.5909169/0/aspectjtools-1-9-5-sources-jar/org/aspectj/weaver/tools/AdviceImpl.java
jar/org/aspectj/weaver/JoinPointSignature.java
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jar/org/aspectj/weaver/tools/JoinPointMatch.java
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jar/org/aspectj/internal/lang/reflect/PointcutImpl.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjweaver-1-9-5-sources-
jar/org/aspectj/weaver/reflect/ShadowMatchImpl.java
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jar/org/aspectj-lang/reflect/AdviceKind.java
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-
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*Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 417295 - [1.8][null] Message type annotated null analysis to gel well with deep encoded type bindings.
*Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 427438 - [1.8][compiler] NPE at
* Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 378674 - "The method can be declared as static” is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

Till Brychcy - Contributions for
bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File

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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*bug 457079 - Regression: type inference
*bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*bug 470467 - [null] Nullness of special Enum methods not detected from .class file
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* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/util/IStructureModel.java
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/* Theodora Yeung (tyeung@bea.com) - ensure that JarPackageFragmentRoot make it into cache */
/* before its contents */
/* (see https://bugs.eclipse.org/bugs/show_bug.cgi?id=102422) */
/* Stephan Herrmann - Contributions for */
/* Bug 346010 - [model] strange initialization dependency in OptionTests */
/* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation */
/* Terry Parker <tparker@google.com> - DeltaProcessor misses state changes in archive files, see */
/* https://bugs.eclipse.org/bugs/show_bug.cgi?id=357425 */
/* Thirumala Reddy Mutchukota <thirumala@google.com> - Contribution to bug: */
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/* Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches - */
/* https://bugs.eclipse.org/421165 */
/* Terry Parker <tparker@google.com> - Enable the Java model caches to recover from IO errors - */
/* https://bugs.eclipse.org/455042 */
/* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete */
/* suggestions */
/* Karsten Thoms - Bug 532505 - Reduce memory footprint of ClasspathAccessRule */
/* *********************************************************************************/

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/src/org/aspectj/weaver/asttree/ASTNode.java

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* Bug 328281 - visibility leaks not detected when analyzing unused field in private class
* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
* Bug 354536 - compiling package-info.java still depends on the order of compilation units
* Bug 349326 - [1.7] new warning for missing try-with-resources
* Bug 358903 - Filter practically unimportant resource leak warnings
* Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens "sometimes"
*Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()  
  *          Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
*  Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
  *          het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
  *          Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
  *  Bug 473178
*******************************************************************************

Found in path(s):
* /opt/cola/permits/1017214397_1654022815.5909169/0/aspectj-1-9-5-src-jar/aspectjtools-1-9-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ClassScope.java
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- Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519

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1.1661 gnome-menus 3.13.3-3.el7

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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java

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  jar/io/netty/handler/address/package-info.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
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  jar/io/netty/handler/address/DynamicAddressConnectHandler.java
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  jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
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  jar/io/netty/handler/ssl/PseudoRandomFunction.java
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  jar/io/netty/handler/ssl/SslMasterKeyHandler.java
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  jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
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  jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
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  jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
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* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/PemReader.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/SslUtils.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1.jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
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 */
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/netty-handler-4-1-45-final-sources.jar/netty-handler/src/main/java/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

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  jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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  jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
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  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/ClientAuth.java
* /opt/ws_local/PERMITS_SQL/1068272003_1594337999.69/0/netty-handler-4-1-45-final-sources-1-
  jar/io/netty/handler/ssl/SslContextBuilder.java

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jar/org/springframework/asm/ClassWriter.java
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jar/org/springframework/asm/ByteVector.java
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jar/org/springframework/core/env/MissingRequiredPropertiesException.java
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* /opt/cola/permits/1039326007_1654022899.4627674/0/jboss-remoting-4-0-21-final-sources-jar/org/jboss/remoting3/remote/InboundMessage.java
* /opt/cola/permits/1039326007_1654022899.4627674/0/jboss-remoting-4-0-21-final-sources-jar/org/jboss/remoting3/remote/ProtocolUtils.java
* /opt/cola/permits/1039326007_1654022899.4627674/0/jboss-remoting-4-0-21-final-sources-jar/org/jboss/remoting3/remote/RemoteConnection.java
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* /opt/cola/permits/1039326007_1654022899.4627674/0/jboss-remoting-4-0-21-final-sources-jar/org/jboss/remoting3/remote/RemoteConnectionHandler.java
* /opt/cola/permits/1039326007_1654022899.4627674/0/jboss-remoting-4-0-21-final-sources-jar/org/jboss/remoting3/remote/ExternalSaslServer.java
* /opt/cola/permits/1039326007_1654022899.4627674/0/jboss-remoting-4-0-21-final-sources-jar/org/jboss/remoting3/ChannelBusyException.java
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 * If QOP is set to 'auth-conf', a DIGEST-MD5 mechanism must have
 * support for the DES and Triple DES cipher algorithms (optionally,
 * support for RC4 [128/56/40 bit keys] ciphers) to provide for
 * confidentiality. See RFC 2831 for details. This implementation
 * provides support for DES, Triple DES and RC4 ciphers.
 *
 * The value of strength effects the strength of cipher used. The mappings
 * of 'high', 'medium', and 'low' give the following behaviour.
 *
 * HIGH_STRENGTH   - Triple DES
 *                   - RC4 (128bit)
 * MEDIUM_STRENGTH - DES
 *                   - RC4 (56bit)
 * LOW_SRENGTH     - RC4 (40bit)
 */

/**
 * Implementation of the SecurityCtx interface allowing for messages
 * between the client and server to be integrity checked and encrypted.
 * After a successful DIGEST-MD5 authentication, privacy is invoked if the
 * SASL QOP (quality-of-protection) is set to 'auth-conf'.
 * <p>
 * Further details on the integrity-protection mechanism can be found
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*/ jar/org/jboss/sasl/localuser/LocalUserServer.java
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*/ jar/org/jboss/sasl/util/AbstractSaslClient java
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*/ jar/org/jboss/sasl/util/HexConverter.java
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*/ jar/org/jboss/sasl/util/ExceptionSaslState.java
jar/org/jboss/sasl/util/UsernamePasswordHashUtil.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/util/Charsets.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/util/SaslStateContext.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/digest/AbstractDigestMD5Factory.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/util/AbstractSaslParticipant.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/util/AbstractSaslFactory.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/callback/VerifyPasswordCallback.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/anonymous/AnonymousClientFactory.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/localuser/LocalUserSaslFactory.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/anonymous/AbstractAnonymousFactory.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/callback/DigestHashCallback.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/anonymous/AnonymousSaslClient.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/anonymous/AnonymousSaslServer.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/localuser/LocalUserClientFactory.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/localuser/LocalUserClient.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/AnonymousSaslClient.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/AnonymousSaslServer.java
* /opt/cola/permits/1001049673_1654022891.4346223/0/jboss-sasl-1-0-5-final-sources-
jar/org/jboss/sasl/plain/PlainServerFactory.java

1.1685 springfox-schema 2.9.2

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 */
* `/opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java`

* `/opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/DefaultModelProvider.java`

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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/Types.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/JacksonEnumTypeDeterminer.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/OptimizedModelPropertiesProvider.java

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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/property/SimpleMethodSignatureEquality.java

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* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/plugins/PropertyDiscriminatorBasedInheritancePlugin.java
* /opt/cola/permits/1177939656_1625570693.96/0/springfox-schema-2-9-2-sources-3-jar/springfox/documentation/schema/JAXBPresentInClassPathCondition.java

1.1686 classmate 1.4.0
1.1686.1 Available under license:
Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel
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1.1687.1 Available under license:
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* /opt/cola/permits/1000890760_1646171539.72/0/easymock-2-4-sources-jar/org/easymock/Capture.java

No license file was found, but licenses were detected in source scan.

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 */

Found in path(s):
* /opt/cola/permits/1000890760_1646171539.72/0/easymock-2-4-sources-jar/org/easymock/Capture.java
* /opt/cola/permits/1000890760_1646171539.72/0/easymock-2-4-sources-jar/org/easymock/internal/matchers/Captures.java
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* /opt/cola/permits/1039863307_1654022865.5624862/0/jaxws-undertow-httpspi-1-0-1-final-sources.jar/jar/org/jboss/ws/undertow_httpspi/UndertowHeaderMap.java

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* /opt/cola/permits/1257496545_1654022935.3465455/0/jersey-server-1-1-5-1-sources-jar/com/sun/jersey/server/impl/modelapi/annotation/IntrospectionModeller.java

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* /opt/cola/permits/1104729314_1604648833.11/0/spring-aop-5-2-10-release-sources-
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* /opt/cola/permits/1104729314_1604648833.11/0/spring-aop-5-2-10-release-sources-
  jar/org/aopalliance/intercept/Joinpoint.java
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* /opt/cola/permits/1001160259_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/util/ExponentialBackOff.java
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* /opt/cola/permits/1001160259_1646171606.05/0/google-http-client-1-22-0-sources-jar/com/google/api/client/http/EmptyContent.java
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1.1710 tigervnc 1.8.0 19.el7

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1.1717 kafka-streams 2.4.1

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QLogic Linux FC-FCoE Driver

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_phyie bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_phyie)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStar PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
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Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.1731 joda-time 2.3

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1.1735 xorg-x11-server-utils 7.7-20.el7

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/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
* 
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable} to use {@link
*     ImmutableSortedMap#of(Comparable, Object)}.</b>
*/

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jar/com/google/common/collection/ConcurrentHashMultiset.java
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This following method is a modified version of one found in
http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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  jar/com/google/common/base/SmallCharMatcher.java
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  jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/base/MoreObjects.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/ImmutableSortedMultiset.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/Platform.java

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  jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Strings.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/SortedLists.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ContiguousSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Ascii.java

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*/
/**
* Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
* [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
* under GWT but with a slightly different signature.
*<p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
* it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/ImmediateFuture.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/escape/CharEscaperBuilder.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
*/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
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*/
  
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

Found in path(s):
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jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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  jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ForwardingListMultimap.java

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  jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/ForwardingCondition.java
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 */
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/CommonMatcher.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractTable.java
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jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Objects.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Function.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/CountingOutputStream.java
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* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/io/Resources.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/collect/Interners.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/base/Supplier.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/io/Closeables.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/AbstractFuture.java
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* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/base/Functions.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/base/Throwables.java
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* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/110675684_1606843710.64/fuava-25-0-jre-sources-4.jar/com/google/common/base/FinalizablePhantomReference.java
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* /opt/colla/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/HashBiMap.java
* /opt/colla/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/package-info.java
* /opt/colla/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/files.java
* /opt/colla/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/colla/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/colla/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/colla/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/Network.java
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* /opt/colla/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/colla/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/MutableNetwork.java
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 * java.util.HashMap class.
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  jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/hash/ImmutableSupplier.java
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  jar/com/google/common/graph/BaseGraph.java
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  jar/com/google/common/graph/AbstractBaseGraph.java
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jar/com/google/common/collect/CollectSpliterators.java
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jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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  jar/com/google/common/collect/SortedMultisets.java
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  jar/com/google/common/math/StatsAccumulator.java
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  * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/annotations/GwtCompatible.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableTable.java
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 */

Found in path(s):
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/Booleans.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/InetAddresses.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Stopwatch.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/Bytes.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/Escaper.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/Chars.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/net/PercentEscaper.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/SequentialExecutor.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListenableFutureTask.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/Longs.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/Ints.java
 * /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/primitives/Floats.java

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jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/ConfigurableValueGraph.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/ConfigurableMutableGraph.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/RangeGwtSerializationDependencies.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/UndirectedGraphConnections.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java

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jar/com/google/common/collection/Streams.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/AbstractNavigableMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/EvictingQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/FilteredEntryMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/CompactHashSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/TreeRangeMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/ForwardingDeque.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/TransformedIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collection/CompactLinkedHashMap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingImmutableList.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/TransformedListIterator.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/CompactHashMap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/FilteredEntrySetMultimap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/DescendingMultiset.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/RangeMap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/DescendingImmutableSortedSet.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/AbstractMultimap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/FilteredSetMultimap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/CompactLinkedHashSet.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingNavigableSet.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingImmutableSet.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/RegularImmutableAsList.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/FilteredKeySetMultimap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingNavigableMap.java
1.1741 owasp-java-html-sanitizer 20191001.1

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1.1742 javax-security-enterprise 1.0

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* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources.jar/org/glassfish/soteria/cdi/spi/CDIPerRequestInitializer.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources.jar/org/glassfish/soteria/cdi/CdiUtils.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources.jar/org/glassfish/soteria/mechanisms/jaspic/DefaultServerAuthContext.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources.jar/org/glassfish/soteria/identitystores/IdentityStoreRuntimeException.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources.jar/org/glassfish/soteria/identitystores/annotation/EmbeddedIdentityStoreDefinition.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources.jar/org/glassfish/soteria/cdi/AnyAnnotationLiteral.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources.jar/org/glassfish/soteria/cdi/BasicAuthenticationMechanismDefinitionAnnotationLiteral.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources.jar/org/glassfish/soteria/cdi/DefaultIdentityStoreHandler.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources.jar/org/glassfish/soteria/cdi/AnnotationELPProcessor.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/servlet/RequestData.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/authorization/JACC.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/cdi/LoginToContinueAnnotationLiteral.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/identitystores/IdentityStoreConfigurationException.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/cdi/RememberMeAnnotationLiteral.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/identitystores/IdentityStoreException.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/mechanisms/jaspic/DefaultAuthConfigProvider.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/mechanisms/HttpMessageContextImpl.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/mechanisms/FormAuthenticationMechanism.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/mechanisms/ObjectIdentityStoreImpl.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/Utils.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/servlet/SamRegistrationInstaller.java
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-jar/org/glassfish/soteria/identitystores/annotation/Credentials.java
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 * holder.
 */
/**
 * Registers a server auth module as the one and only module for the application corresponding to
 * the given servlet context.
 *
 * <p>
 * This will override any other modules that have already been registered, either via proprietary
 * means or using the standard API.
 */
* @param serverAuthModule the server auth module to be registered
* @param servletContext the context of the app for which the module is registered
* @return A String identifier assigned by an underlying factory corresponding to an underlying factory-factory
* registration
*/

Found in path(s):
* /opt/cola/permits/1003069672_1654022856.841237/0/javax-security-enterprise-1-0-sources-
jar/org/glassfish/soteria/mechanisms/jaspic/Jaspic.java
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1.1743 netty-buffer 4.1.53.Final

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Manifest-Version: 1.0
Implementation-Title: Netty/Buffer
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.buffer
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.buffer
Implementation-Version: 4.1.53.Final
Built-By: root
Bnd-LastModified: 1602570733420
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.util;version="[4.1,5)";io.netty.util.collecti
on;version="[4.1,5)";io.netty.util.concurrent;version="[4.1,5)";io.ne
tty.util.internal;version="[4.1,5)";io.netty.util.internal.logging;ve
rsion="[4.1,5)";sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn
;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version=
"[1,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Export-Package: io.netty.buffer;uses:="io.netty.util”;version="4.1.53"
,io.netty.buffer.search;uses:="io.netty.util”;version="4.1.53"
Bundle-Name: Netty/Buffer
Bundle-Version: 4.1.53.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-buffer/
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* /opt/cola/permits/1000740250_1646171530.24/0/jul-to-slf4j-1-7-25-sources-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

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1.1753 kerberos 1.15.1 46.el7

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mecgssapiP_spnego.h
lib/gss_mechs/mech_spnego/mecgssapiP_spnego.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/service/PathDecorator.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/ApiListingBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/OperationModelsProviderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ApiSelector.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/TypeNameProviderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/DocumentationContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/PathAdjuster.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/ParameterBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/AlternateTypeProvider.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/DocumentationType.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/Defaults.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/ExpandedParameterBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/OperationBuilderPlugin.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/schema/EnumTypeDeterminer.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/PathContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/ApiListingContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/SecurityContext.java
* /opt/cola/permits/1177939641_1625570672.78/0/springfox-spi-2-9-2-sources-3-jar/springfox/documentation/spi/service/contexts/SecurityContextBuilder.java
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1.1756 jboss-marshalling-river 1.4.11.Final

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* /opt/ws_local/PERMITS_SQL/1069029788_1594473240.85/0/jboss-marshalling-river-1-4-11-final-sources-jar/org/jboss/marshalling/river/FutureSerializableClassDescriptor.java
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jar/org/jboss/marshalling/river/Validator.java
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* /opt/ws_local/PERMITS_SQL/1069029788_1594473240.85/0/jboss-marshalling-river-1-4-11-final-sources-jar/org/jboss/marshalling/river/BlockMarshaller.java
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* /opt/ws_local/PERMITS_SQL/1069029788_1594473240.85/0/jboss-marshalling-river-1-4-11-final-sources-jar/org/jboss/marshalling/river/ClassDescriptors.java
* /opt/ws_local/PERMITS_SQL/1069029788_1594473240.85/0/jboss-marshalling-river-1-4-11-final-sources-jar/org/jboss/marshalling/river/RiverMarshallerFactory.java
* /opt/ws_local/PERMITS_SQL/1069029788_1594473240.85/0/jboss-marshalling-river-1-4-11-final-sources-jar/org/jboss/marshalling/river/RiverUnmarshaller.java
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* /opt/ws_local/PERMITS_SQL/1069029788_1594473240.85/0/jboss-marshalling-river-1-4-11-final-sources-jar/org/jboss/marshalling/river/RiverProviderDescriptor.java
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* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/IConnectionCustomizer.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/HikariDataSource.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/proxy/CallableStatementProxy.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/pool/HikariMBeanElf.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/HikariConfigMXBean.java
* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/proxy/ClosedConnection.java
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* /opt/cola/permits/1150990852_1617742469.03/0/hikaricp-2-3-13-sources-3-jar/com/zaxxer/hikari/metrics/CodahaleHealthChecker.java

1.1758 gzip 1.5 10.el7

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* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/metadata/jaxrpcmapping/VariableMapping.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/soap/attachment/ImageDataContentHandler.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/jaxrpc/binding/CalendarSerializerFactory.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/jaxrpc/binding/JBossXBSerializer.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/jaxrpc/client/PortProxy.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/soap/SOAPBodyElementMessage.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/metadata/jaxrpcmapping/MethodParamPartsMapping.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/metadata/wsdl/WSDLBinding.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/RoleSource.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/wsdl/WSDLSOAPHeader.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/client/EndpointInfo.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/soap/SOAPMessageMarshaller.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/soap/SOAPHeaderElementImpl.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/CommonBindingProvider.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/soap/utils/Style.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/metadata/umdm/ClientEndpointMetaData.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/soap/EnvelopeBuilderDOM.java
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/** Converts a proprietary JBossWS attachment xml type to the MIME type that it represents.
 */

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* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-
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  jar/schema/j2ee_1_4.xsd
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-
  jar/schema/j2ee_web_services_1_1.xsd
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-
  jar/schema/j2ee_jaxrpc_mapping_1_1.xsd
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  jar/org/jboss/ws/NativeLoggers.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-
  jar/org/jboss/ws/NativeMessages.java
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 */
* Converts a MIME type into a proprietary JBossWS attachment xml type.
* @param mimeType the MIME type string to convert
* @return the xml type that this mime type corresponds to
*/

Found in path(s):
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/utils/MimeUtils.java

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//we stick with the original protocol (https) if the transport guarantee is CONFIDENTIAL

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* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/client/NativeServiceRefFactoryImpl.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/EndpointMetadataProvider.java
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 */
/**
 * Gets the value type of a JAX-RPC holder. Note this method should not be used
 * for JAX-WS, as a JAX-WS holder requires generic info. Instead, use the Type
 * version.
 *
* @param holderType the generic type for JAX-WS, a standard class for JAX-RPC
* @return the value type
*/

Found in path(s):
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/utils/HolderUtils.java
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* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/schema/javaee_5.xsd
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/schema/javaee_web_services_client_1_2.xsd
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* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/client/transport/NettyHelper.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/client/transport/NettyClient.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/stack/jbws/RequestHandlerImpl.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/client/transport/ClientSocketChannelFactoryProvider.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/client/transport/NettyTransportOutputStream.java

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   Last Call Working Draft:
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* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/CommonSOAPBinding.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/soap/BundleUtils.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/soap/SOAPMessageDispatcher.java
* /opt/cola/permits/1091710585_1654022900.2063644/0/jbossws-native-core-4-1-1-final-sources-jar/org/jboss/ws/core/client/HTTPRemotingConnection.java

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Original W3C files; http://www.w3.org/2001/06/soap-encoding
Changes made:
- reverted namespace to http://schemas.xmlsoap.org/soap/encoding/
- reverted root to only allow 0 and 1 as lexical values
- removed default value from root attribute declaration

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* /opt/cola/permits/110676891_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-
  jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java

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 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * [ @link #locateSource detected ] during response rendering. Users can either specify
 * a specific entry in the model via the [ @link #setSourceKey sourceKey ] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See [ @link #getSourceTypes() here]
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [ @link #setOutputProperties output properties]
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
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* /opt/cola/permits/110676891_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java
* /opt/cola/permits/110676891_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/tags/form/OptionsTag.java
* /opt/cola/permits/110676891_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/config/annotation/UriBasedViewResolverRegistration.java
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* /opt/cola/permits/110676891_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/FlashMapManager.java

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* /opt/cola/permits/1110676891_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-
  jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
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* /opt/cola/permits/110676891_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseStatusExceptionResolver.java
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* /opt/cola/permits/1110676891_1606843558.9/0/spring-webmvc-5-0-8-release-sources-1-jar/org/springframework/web/servlet/theme/ThemeTag.java

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  org.aspectj.org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to
  org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
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* Stephan Herrmann - contribution for bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
* Palo Alto Research Center, Incorporated - AspectJ adaptation
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/LookupEnvironment.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/CombinedBinaryExpression.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/ASTRecoveryPropagator.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - TypeConverters don't set enclosingType -
https://bugs.eclipse.org/bugs/show_bug.cgi?id=320841
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  jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/SourceTypeConverter.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/org/eclipse/jdt/internal/compiler/impl/DoubleConstant.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/org/eclipse/jdt/core/dom/Modifier.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/org/eclipse/jdt/core/dom/TypeDeclarationStatement.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/org/eclipse/jdt/core/dom/ConstructorInvocation.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/BreakStatement.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/core/CorrectionEngine.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/SuperFieldAccess.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/AdditionalTypeCollection.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/ClasspathMultiDirectory.java
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* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ internal/ compiler/ classfmt/ ClassFileReader.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ ReturnStatement.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ internal/ core/ ClassFile.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ AnonymousClassDeclaration.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ VariableDeclarationFragment.java
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* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ ThrowStatement.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ NumberLiteral.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ internal/ core/ JarPackageFragmentRoot.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ ParenthesizedExpression.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ ILocalVariable.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ ISourceReference.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ Assignment.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ internal/ compiler/ env/ AccessRuleSet.java
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* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ CharacterLiteral.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ QualifiedName.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ BooleanLiteral.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ core/ dom/ VariableDeclarationStatement.java
* /opt/ cola/ permits/ 1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/ org/ aspectj/ org/ eclipse/ jdt/ internal/ core/ search/ matching/ PatternLocator.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/IClasspathContainer.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/simpl/IntConstant.java
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* Stephan Herrmann - Contribution for bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/AssertStatement.java
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null

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In classpath entry that is making a reference to this classpath entry. For entry kinds
* [@link #CPE_LIBRARY], the return value is the entry that is representing the JAR that includes
* <code>this</code> in the MANIFEST.MF file's Class-Path section. For entry kinds other than
* [@link #CPE_LIBRARY], this returns <code>null</code>. For those entries that are on the raw classpath
already,
* this returns <code>null</code>.
* <p>
* It is possible that multiple library entries refer to the same entry
* via the MANIFEST.MF file. In those cases, this method returns the first classpath entry
* that appears in the raw classpath. However, this does not mean that the other referencing
* entries do not relate to their referenced entries.
* See [ @link JavaCore#getReferencedClasspathEntries(IClasspathEntry, IJavaProject)] for
* more details.
* </p>
* *
* @return the classpath entry that is referencing this entry or <code>null</code> if
* not applicable.
* @since 3.6
* /

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In classpath entry that is making a reference to this classpath entry. For entry kinds
* [@link #CPE_LIBRARY], the return value is the entry that is representing the JAR that includes
* <code>this</code> in the MANIFEST.MF file's Class-Path section. For entry kinds other than
* [@link #CPE_LIBRARY], this returns <code>null</code>. For those entries that are on the raw classpath
already,
* this returns <code>null</code>.
* <p>
* It is possible that multiple library entries refer to the same entry
* via the MANIFEST.MF file. In those cases, this method returns the first classpath entry
* that appears in the raw classpath. However, this does not mean that the other referencing
* entries do not relate to their referenced entries.
* See [ @link JavaCore#getReferencedClasspathEntries(IClasspathEntry, IJavaProject)] for
* more details.
* </p>
* *
* @return the classpath entry that is referencing this entry or <code>null</code> if
* not applicable.
* @since 3.6
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/IPrivilegedHandler.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/IMemberFinder.java
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
  * bug 325755 - [compiler] wrong initialization state after conditional expression
  * bug 320170 - [compiler] [null] Whitebox issues in null analysis
  * bug 292478 - Report potentially null across variable assignment
  * bug 332637 - Dead Code detection removing code that isn't dead
  * bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo

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* Found in path(s):
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/flow/UnconditionalFlowInfo.java
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  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajdt/internal/compiler/ICompilerAdapter.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajdt/internal/compiler/ICompilerAdapterFactory.java
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* Contributors:
* mkaufman@bea.com - initial API as ICompilationParticipant
* IBM - changed from interface ICompilationParticipant to abstract class CompilationParticipant
* IBM - rewrote specification

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources- jar/org/aspectj/apache/bcel/generic/Tag.java

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    * bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
    * bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE

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jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ExtraCompilerModifiers.java

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org.aspectj.org.eclipse.jdt.internal.compiler.lookupSourceTypeBinding cannot be cast to
org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
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  jar/org/aspectj/apache/bcel/ExceptionConstants.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/util/Repository.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/generic/TargetLostException.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/classfile/Field.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/classfile/ConstantMethodref.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/classfile/SourceFile.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/generic/LOOKUPSWITCH.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/generic/InstVisitor.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/generic/InstructionHandle.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/generic/ClassGen.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/apache/bcel/classfile/ExceptionTable.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/apache/bcel/generic/InstructionList.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/apache/bcel/util/ClassLoaderRepository.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/apache/bcel/ConstantsInitializer.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/apache/bcel/classfile/ConstantClass.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/apache/bcel/generic/InstructionLV.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/apache/bcel/classfile/ClassVisitor.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/apache/bcel/classfile/Utility.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/apache/bcel/classfile/ClassParser.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/apache/bcel/classfile/ArrayTypeInfo.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar.org/aspectj/apache/bcel/generic/InvokeDynamic.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar.org/aspectj/apache/bcel/classfile/ConstantMethodType.java
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  jar/org/aspectj/apache/bcel/classfile/BootstrapMethods.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/generic/LocalVariableGen.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/apache/bcel/generic/FieldOrMethod.java
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  jar/org/aspectj/apache/bcel/classfile/Node.java
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  jar/org/aspectj/apache/bcel/generic/FieldInstruction.java
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  jar/org/eclipse/jdt/internal/core/SourceConstructorWithChildrenInfo.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/eclipse/jdt/internal/core/InitializerWithChildrenInfo.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/eclipse/jdt/internal/core/ImportContainerInfo.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/eclipse/jdt/internal/compiler/util/DefaultClassLoaderReference.java

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  jar/org/eclipse/jdt/internal/core/SourceConstructorWithChildrenInfo.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/eclipse/jdt/internal/core/InitializerWithChildrenInfo.java
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  jar/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceMethodWithChildrenInfo.java

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 * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/compiler/batch/BatchCompiler.java
 * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/TypeConverter.java

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/swing/BrowserViewPanel.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/swing/SwingTreeViewNodeFactory.java
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* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn’t dead
*******************************************************************************

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnStringLiteral.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/core/dom/rewrite/TargetSourceRangeComputer.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/core/search/TypeParameterReferenceMatch.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/JavadocConstants.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/DocumentAdapter.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/WildcardBinding.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/ClasspathAttribute.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnAnnotationMemberValuePair.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnMemberValueName.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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* Alex Vasseur wired up for @AJ proceeding
* Andy Clement 23-06-06 added extras for @AJ
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/jdt/internal/core/util/BindingKeyParser.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/jdt/internal/compiler/lookup/ParameterizedTypeBinding.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajdt/internal/compiler/lookup/OwningClassSupportForFieldBindings.aj
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajdt/internal/compiler/parser/AllowAssertAndEnumAsIdentifierTokensInPointcutExpressions.aj
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajdt/internal/compiler/lookup/OwningClassSupportForMethodBindings.aj
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/bridge/context/ContextFormatter.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/bridge/context/ContextToken.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/bridge/context/AnonymousClassPublisher.aj

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Tim Hanson <thanson@bea.com> - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=137634

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/AnnotationTypeMemberDeclaration.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/ITypeParameter.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/CancelableNameEnvironment.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/MemberValuePair.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/core/dom/TagElement.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/core/dom/NormalAnnotation.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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* Bug 328281 - visibility leaks not detected when analyzing unused field in private class
* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
* Bug 354536 - compiling package-info.java still depends on the order of compilation units
* Palo Alto Research Center, Incorporated - AspectJ adaptation
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/util/IRuntimeInvisibleParameterAnnotationsAttribute.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/util/VerificationInfo.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources.jar/org/aspectj/org/eclipse/jdt/core/util/IParameterAnnotation.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources.jar/org/aspectj/org/eclipse/jdt/core/dom/Comment.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources.jar/org/aspectj/org/eclipse/jdt/core/dom/InternalASTRewrite.java

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/util/ILocalVariableTypeTableEntry.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/util/IAnnotation.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/util/messages.properties
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jar/org/aspectj/org/eclipse/jdt/internal/formatter/options.properties
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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* Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995
* Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators
mark local variables as read
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  * IBM Corporation - initial API and implementation
  * IBM Corporation - added the following constants
  * NonStaticAccessToStaticField
  * NonStaticAccessToStaticMethod
  * Task
  * ExpressionShouldBeAVariable
  * AssignmentHasNoEffect
  * IBM Corporation - added the following constants
  * TooManySyntheticArgumentSlots
  * TooManyArrayDimensions
  * TooManyBytesForStringConstant
  * TooManyMethods
  * TooManyFields
  * NonBlankFinalLocalAssignment
  * ObjectCannotHaveSuperTypes
  * MissingSemiColon
  * InvalidParenthesizedExpression
  * EnclosingInstanceInConstructorCall
  * BytecodeExceeds64KLimitForConstructor
  * IncompatibleReturnTypeForNonInheritedInterfaceMethod
  * UnusedPrivateMethod
  * UnusedPrivateConstructor
  * UnusedPrivateType
  * UnusedPrivateField
  * IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
  * InvalidExplicitConstructorCall
  * IBM Corporation - added the following constants
  * PossibleAccidentalBooleanAssignment
  * SuperfluousSemicolon
  * IndirectAccessToStaticField
  * IndirectAccessToStaticMethod
  * IndirectAccessToStaticType
  * BooleanMethodThrowingException
  * UnnecessaryCast
  * UnnecessaryArgumentCast
  * UnnecessaryInstanceOf
  * FinallyMustCompleteNormally
  * UnusedMethodDeclaredThrownException
  * UnusedConstructorDeclaredThrownException
  * InvalidCatchBlockSequence
  * UnqualifiedFieldAccess
  * IBM Corporation - added the following constants
  * Javadoc
  * JavadocUnexpectedTag
  * JavadocMissingParamTag
* JavadocMissingParamName
* JavadocDuplicateParamName
* JavadocInvalidParamName
* JavadocMissingReturnType
* JavadocDuplicateReturnType
* JavadocMissingThrowsTag
* JavadocInvalidThrowsTag
* JavadocMissingThrowsClassName
* JavadocInvalidThrowsClassName
* JavadocMissingReturnTag
* JavadocDuplicateReturnTag
* JavadocInvalidReturnTag
* JavadocMissingReturnTag
* JavadocDuplicateReturnTag
* JavadocInvalidReturnTag
* JavadocMissingThrowsTag
* JavadocInvalidThrowsTag
* JavadocMissingSeeReference
* JavadocInvalidSeeReference
* JavadocMissingSeeHref
* JavadocInvalidSeeHref
* JavadocMissingSeeArgs
* JavadocMessagePrefix
* EmptyControlFlowStatement
* IBM Corporation - added the following constants
  * IllegalUsageOfQualifiedTypeReference
  * InvalidDigit
* IBM Corporation - added the following constants
  * ParameterAssignment
  * FallthroughCase
* IBM Corporation - added the following constants
  * UnusedLabel
  * UnnecessaryNLSTag
  * LocalVariableMayBeNull
  * EnumConstantsCannotBeSurroundedByParenthesis
  * JavadocMissingIdentifier
  * JavadocNonStaticTypeFromStaticInvocation
  * RawTypeReference
  * NoAdditionalBoundAfterTypeVariable
  * UnsafeGenericArrayForVarargs
  * IllegalAccessFromTypeVariable
  * AnnotationValueMustBeArrayInitializer
  * InvalidEncoding
  * CannotReadSource
  * EnumStaticFieldInInInitializerContext
  * ExternalProblemNotFixable
  * ExternalProblemFixable
* IBM Corporation - added the following constants
  * AnnotationValueMustBeAnEnumConstant
  * OverridingMethodWithoutSuperInvocation
  * MethodMustOverrideOrImplement
  * TypeHidingTypeParameterFromType
  * TypeHidingTypeParameterFromMethod
  * TypeHidingType
jar/org/aspectj/org/eclipse/jdt/internal/core/XMLWriter.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IGenericField.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnQualifiedSuperReference.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/IPathRequestor.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/inutil/ILRUCacheable.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/Opcodes.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/IJavaElementRequestor.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/PackageDeclarationLocator.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/JavaModelInfo.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/builder/AbortIncrementalBuildException.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/ISourceType.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/PackageDeclarationLocator.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/JavaModelInfo.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/eval/VariablesInfo.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IGenericType.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetEnvironment.java

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* Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
* Palo Alto Research Center, Incorporated - AspectJ adaptation
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/TheOriginalJDTParserClass.java

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* Xerox/PARC  initial implementation
* Helen Hawkins  Converted to new interface (bug 148190)
File: Ajde.java

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File: JavadocArraySingleTypeReference.java, ASTHolderCUInfo.java, ImportMatchLocatorParser.java

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File: VariableLocator.java, CreateImportOperation.java, AndPattern.java, SourceType.java, CharArrayCache.java

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/CompilationUnitResolver.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/CompilationUnitProblemFinder.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/DeltaProcessor.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/SuperTypeReferenceLocator.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/TypeBinding.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ProblemReasons.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/MethodScope.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/CompilationUnitStructureRequestor.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/ASTVisitor.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier15.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/core/JavaModelStatus.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/CreateElementInCUOperation.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/formatter/ICodeFormatterConstants.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/ClasspathEntry.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/IMethodBinding.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/rewrite/ASTRewriteFormatter.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaCorePreferenceInitializer.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/AST.java

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/IRestrictedAccessConstructorRequestor.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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* Stephan Herrmann - Contribution for Bug 343713 - [compiler] bogus line number in constructor of inner class
* in 1.5 compliance
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/CompletionUnitStructureRequestor.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/FileASTRequestor.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/NameEnvironmentWithProgress.java
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* Andreas Magnusson <andreas.ch.magnusson@gmail.com>- contribution for bug 151500
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/IImportDeclaration.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/AbstractMethodDeclaration.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Clinit.java
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Found in path(s):
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/CompletionFlags.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/RecoveredVariableBinding.java
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*   - Kelly Campbell <kellyc@google.com> - Hangs in SourceMapper during java proposals - https://bugs.eclipse.org/bugs/show_bug.cgi?id=281575
*******************************************************************************

Found in path(s):
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceMapper.java
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* Contributors:
* tyeung@bea.com - initial API and implementation
* IBM Corporation - changed interface to extend IBinding
* IBM Corporation - renamed from IResolvedAnnotation to IAnnotationBinding
******************************************************************************/

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Found in path(s):
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/bridge/IProgressListener.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann <stephan@cs.tu-berlin.de> - inconsistent initialization of classpath container backed by external class folder, see https://bugs.eclipse.org/320618
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/bridge/internal/core/ExternalFolderChange.java
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* Wes Isberg  initial implementation
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Found in path(s):
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/lang/internal/lang/PlaceHolder.java
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*  IBM Corporation - initial API and implementation
*  IBM Corporation - added support for requesting updates of a particular
*    container for generic container operations.
*  - canUpdateClasspathContainer(IPath, IJavaProject)
*  - requestClasspathContainerUpdate(IPath, IJavaProject, IClasspathContainer)
*  IBM Corporation - allow initializers to provide a readable description
*    of a container reference, ahead of actual resolution.
*  - getDescription(IPath, IJavaProject)
***************************************************************

Found in path(s):
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/ClasspathContainerInitializer.java
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* Andy Clement  initial implementation
* Copied from bits of original CFlowStack
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackImpl11.java
* which accompanies this distribution and is available at
*
* Contributors:
*  Mik Kersten    initial implementation
*  Andy Clement  Extensions for better IDE representation
* **************************************************************************/

Found in path(s):
*  /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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  jar/org/aspectj/org/eclipse/jdt/core/IClasspathAttribute.java
*  /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/org/eclipse/jdt/core/dom/ASTRequestor.java
*  /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/org/eclipse/jdt/internal/util/DOMFinder.java
*  /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/StackMapFrame.java
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* Adrian ColyerInitial implementation
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 * Xerox/PARC    initial implementation  
 * Helen Hawkins Converted to new interface (bug 148190)  
 * *******************************************************************/

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/StructureViewManager.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/StructureSearchManager.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/internal/UserPreferencesStore.java

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/eclipse/jdt/core/Signature.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/eclipse/jdt/core/ICompilationUnit.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/eclipse/jdt/core/IType.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/eclipse/jdt/core/IMethod.java

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  jar/org/aspectj/org/eclipse/jdt/internal/codeassist/IExtendedCompletionRequestor.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read
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  jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/JavadocFieldReference.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetFieldReference.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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  * Matt McCutchen - fix for bug 198153

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* IBM Corporation - initial API and implementation
* Alex Blewitt - alex_blewitt@yahoo.com https://bugs.eclipse.org/bugs/show_bug.cgi?id=171066

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* IBM Corporation - specified that a source archive or a source folder can be attached to a binary
  package fragment root.
* IBM Corporation - added root manipulation APIs: copy, delete, move
* IBM Corporation - added DESTINATION_PROJECT_CLASSPATH
* IBM Corporation - added OTHER_REFERRING_PROJECTS_CLASSPATH
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/IPackageFragmentRoot.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/MultiCatchExceptionLabel.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/UnionTypeReference.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/asm/internal/CharOperation.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/asm/internal/JDTLikeHandleProvider.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/asm/internal/NameConvertor.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/asm/internal/HandleProviderDelimiter.java
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* IBM Corporation - added the following constants:
  * COMPILER_PB_DEPRECIATION_IN_DEPRECATED_CODE
  * COMPILER_PB_STATIC_ACCESS_RECEIVER
  * COMPILER_TASK_TAGS
  * CORE_CIRCULAR_CLASSPATH
  * CORE_INCOMPLETE_CLASSPATH
* IBM Corporation - added run(IWorkspaceRunnable, IProgressMonitor)
* IBM Corporation - added exclusion patterns to source classpath entries
* IBM Corporation - added specific output location to source classpath entries
* IBM Corporation - added the following constants:
  * CORE_JAVA_BUILD_CLEAN_OUTPUT_FOLDER
  * CORE_JAVA_BUILD_RECREATE_MODIFIED_CLASS_FILES_IN_OUTPUT_FOLDER
  * CLEAN
* IBM Corporation - added getClasspathContainerInitializer(String)
* IBM Corporation - added the following constants:
  * CODEASSIST_ARGUMENT_PREFIXES
  * CODEASSIST_ARGUMENT_SUFFIXES
  * CODEASSIST_FIELD_PREFIXES
  * CODEASSIST_FIELD_SUFFIXES
  * CODEASSIST_LOCAL_PREFIXES
  * CODEASSIST_LOCAL_SUFFIXES
  * CODEASSIST_STATIC_FIELD_PREFIXES
  * CODEASSIST_STATIC_FIELD_SUFFIXES
  * COMPILER_PB_CHAR_ARRAY_IN_STRING_CONCATENATION
* IBM Corporation - added the following constants:
  * COMPILER_PB_LOCAL_VARIABLE_HIDING

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* COMPILER_PB_SPECIAL_PARAMETER_HIDING_FIELD
* COMPILER_PB_FIELD_HIDING
* COMPILER_PB_POSSIBLE_ACCIDENTAL_BOOLEAN_ASSIGNMENT
* CORE_INCOMPATIBLE_JDK_LEVEL
* VERSION_1_5
* COMPILER_PB_EMPTY_STATEMENT
* IBM Corporation - added the following constants:
  * COMPILER_PB_INDIRECT_STATIC_ACCESS
  * COMPILER_PB_BOOLEAN_METHOD_THROWING_EXCEPTION
  * COMPILER_PB_UNNECESSARY_CAST
* IBM Corporation - added the following constants:
  * COMPILER_PB_INVALID_JAVADOC
  * COMPILER_PB_INVALID_JAVADOC_TAGS
  * COMPILER_PB_INVALID_JAVADOC_TAGS_VISIBILITY
  * COMPILER_PB_MISSING_JAVADOC_TAGS
  * COMPILER_PB_MISSING_JAVADOC_TAGS_VISIBILITY
  * COMPILER_PB_MISSING_JAVADOC_TAGS_OVERRIDEING
  * COMPILER_PB_MISSING_JAVADOC_COMMENTS
  * COMPILER_PB_MISSING_JAVADOC_COMMENTS_VISIBILITY
  * COMPILER_PB_MISSING_JAVADOC_COMMENTS_OVERRIDEING
  * COMPILER_PB_DEPRECATED_WHEN_OVERRIDEING_DEPRECATED_METHOD
* COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_WHEN_OVERRIDEING
* IBM Corporation - added the following constants:
  * TIMEOUT_FOR_PARAMETER_NAME_FROM_ATTACHED_JAVADOC
* IBM Corporation - added the following constants:
  * COMPILER_PB_FALLTHROUGH_CASE
  * COMPILER_PB_PARAMETER_ASSIGNMENT
  * COMPILER_PB_NULL_REFERENCE
* IBM Corporation - added the following constants:
  * CODEASSIST_DEPRECATION_CHECK
* IBM Corporation - added the following constants:
  * COMPILER_PB_POTENTIAL_NULL_REFERENCE
  * COMPILER_PB_REDUNDANT_NULL_CHECK
* IBM Corporation - added the following constants:
  * COMPILER_PB_UNUSED_PARAMETER_INCLUDE_DOC_COMMENT_REFERENCE
* IBM Corporation - added the following constants:
* COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_INCLUDE_DOC_COMMENT_REFERENCE
* IBM Corporation - added the following constants:
  * COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION
  * COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_NO_TAG
  * COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_RETURN_TAG
  * COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_ALL_TAGS
* IBM Corporation - added the following constants:
  * COMPILER_PB_REDUNDANT_SUPERINTERFACE
* IBM Corporation - added the following constant:
* COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_EXEMPT_EXCEPTION_AND_THROWABLE
* IBM Corporation - added getOptionForConfigurableSeverity(int)
* Benjamin Muskalla - added COMPILER_PB_MISSING_SYNCHRONIZED_ON_INHERITED_METHOD
* Stephan Herrmann - added COMPILER_PB_UNUSED_OBJECT_ALLOCATION
* Stephan Herrmann - added COMPILER_PB_SUPPRESS_OPTIONAL_ERRORS
*******************************************************************************

Found in path(s):
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/eclipse/jdt/core/JavaCore.java
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* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
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  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/lang/reflect/CodeSignature.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/runtime/internal/CFlowStack.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/StructureViewNodeFactory.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/swing/StructureViewTreeListener.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/swing/ErrorDialog.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/bridge/AbortException.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/UserPreferencesAdapter.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/IdeUIAdapter.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/IMessage.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/bridge/MessageWriter.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/runtime/internal/Conversions.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/lang/reflect/MethodSignature.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/swing/OptionsPanel.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/runtime/reflect/AdviceSignatureImpl.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/swing/SwingTreeNode.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/bridge/IMessageHolder.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/internal/StructureUtilities.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/ui/AbstractIconRegistry.java
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* tyeung@bea.com - initial API and implementation

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  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IBinaryElementValuePair.java
  * /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfo.java

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* Alex Vasseur  new factory methods for variants of JP
* Abraham Nevado new factory methods for collapsed SJP
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  * variant of Aspects in the aspectj5rt project - this isn't Java5 - Andy Clement
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  * Adrian ColyerInitial implementation
  * Andy Clementvarious fixes
  * Trask Stanalker#373195
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  * mkaufman@bea.com - initial API and implementation
  * IBM - renamed from PreReconcileCompilationResult to ReconcileContext
  * IBM - rewrote spec
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/compiler/ast/Initializer.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/search/SearchMatch.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/WorkQueue.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/IBufferFactory.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Block.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/MemberElementInfo.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnJavadoc.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/compiler/ReconcileContext.java
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 * Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
 * Stephan Herrmann - Contribution for bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
 * Palo Alto Research Center, Incorporated - AspectJ adaptation
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
  jar/org/aspectj/ajde/ui/swing/BuildConfigPopupMenu.java
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  jar/org/aspectj/ajde/ui/swing/CompilerMessagesCellRenderer.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/CompoundAssignment.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/tools/ajdoc/JavadocRunner.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/tools/ajdoc/HtmlDecorator.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/tools/ajdoc/Config.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/tools/ajdoc/StubFileGenerator.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/asm/IRelationship.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/asjdoc/StructureUtil.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/asjdoc/CompilerWrapper.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/asm/IElementHandleProvider.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/lang/reflect/LockSignature.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/runtime/reflect/UnlockSignatureImpl.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/runtime/reflect/LockSignatureImpl.java

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/ajde/internal/LstBuildConfigFileUpdater.java

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/Scope.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/TypeDeclaration.java

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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/ASTParser.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/DocCommentParser.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/util/MementoTokenizer.java
* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/DefaultCommentMapper.java
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* /opt/cola/permits/1001166555_1654022816.3224823/0/aspectjtools-1-7-4-sources-
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* /opt/cola/permits/1110675677_1606843255.15/0/commons-logging-jboss-logging-1-0-0-final-sources-1-jar/org/apache/commons/logging/impl/SimpleLog.java
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* /opt/cola/permits/1110675677_1606843255.15/0/commons-logging-jboss-logging-1-0-0-final-sources-1-jar/org/apache/commons/logging/LogFactory.java

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* /opt/cola/permits/1000966704_1646171541.29/0/java-support-7-1-1-sources-jar/net/shibboleth/utilities/java/support/collection/ClassToInstanceMultiMap.java
* /opt/cola/permits/1000966704_1646171541.29/0/java-support-7-1-1-sources-jar/net/shibboleth/utilities/java/support/httpclient/RequestConnectionClose.java
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org.jboss.as.messaging.MessagingExtension

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* /opt/cola/permits/1110676012_1654023009.8815184/0/wildfly-messaging-14-0-1-final-sources-1- jar/org/jboss/as/messaging/ConnectorServiceDefinition.java
* /opt/cola/permits/1110676012_1654023009.8815184/0/wildfly-messaging-14-0-1-final-sources-1- jar/org/jboss/as/messaging/ConnectorServiceParamDefinition.java
* /opt/cola/permits/1110676012_1654023009.8815184/0/wildfly-messaging-14-0-1-final-sources-1- jar/org/jboss/as/messaging/GroupingHandlerDefinition.java
* /opt/cola/permits/1110676012_1654023009.8815184/0/wildfly-messaging-14-0-1-final-sources-1- jar/org/jboss/as/messaging/JMSTopicDefinition.java
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* /opt/cola/permits/1110676012_1654023009.8815184/0/wildfly-messaging-14-0-1-final-sources-1-
* 02110-1301 USA, or see the FSF site: http://www.fsf.org.
 */

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* /opt/cola/permits/1110676012_1654023009.8815184/0/wildfly-messaging-14-0-1-final-sources-1-jar/org/jboss/as/messaging/ConnectionFactoryType.java
* /opt/cola/permits/1110676012_1654023009.8815184/0/wildfly-messaging-14-0-1-final-sources-1-jar/org/jboss/as/messaging/ConnectionFactoryAttribute.java

1.1780 centos-release-qemu-ev 1.0-4.el7.centos

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* /opt/cola/permits/1136608016_1613806626.5/0/spring-core-5-1-9-release-sources-2-jar/org/springframework/core/env/AbstractEnvironment.java
* /opt/cola/permits/1136608016_1613806626.5/0/spring-core-5-1-9-release-sources-2-jar/org/springframework/util/xml/StaxUtils.java
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* /opt/cola/permits/1136608016_1613806626.5/0/spring-core-5-1-9-release-sources-2.jar/org/springframework/core/type/classreading/RecursiveAnnotationArrayVisitor.java
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* /opt/cola/permits/1136608016_1613806626.5/0/spring-core-5-1-9-release-sources-2-jar/org/springframework/core/convert/support/ConfigurableConversionService.java

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* /opt/cola/permits/1136608016_1613806626.5/0/spring-core-5-1-9-release-sources-2-jar/org/springframework/cglib/core/MethodProxy.java
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jar/org/springframework/core/task/TaskExecutor.java
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* /opt/ws_local/PERMITS_SQL/1091710016_1600571647.63/0/wildfly-elytron-credential-1-11-2-final-sources-jar/org/wildfly/security/credential/AlgorithmCredential.java
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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* /opt/cola/permits/1110677101_1654023031.279857/0/wildfly-jsf-injection-14-0-1-final-sources-1-
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* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/base64/Base64Dialect.java
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* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/compression/Crc32c.java
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*/
/**
* A decoder that splits the received [@link ByteBuf]s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* 
* [@link LengthFieldBasedFrameDecoder] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
* 
* <h3>2 bytes length field at offset 0, do not strip header</h3>
* 
* The value of the length field in this example is &lt;tt&gt;12 (0x0C)&lt;/tt&gt; which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+ +--------+----------------+
* | Length | Actual Content | Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | 0x000C | "HELLO, WORLD" |
* +--------+----------------+ +--------+----------------+
Because we can get the length of the content by calling 
{@link ByteBuf#readableBytes()}, you might want to strip the length field by specifying <tt>initialBytesToStrip</tt>. In this example, we specified <tt>2</tt>, that is same with the length of the length field, to strip the first two bytes.

```
.lengthFieldOffset   = 0
.lengthFieldLength   = 2
.lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)
```

```
BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
```

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero <tt>lengthAdjustment</tt>. Because the length value in this example message is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt> as <tt>lengthAdjustment</tt> for compensation.

```
.lengthFieldOffset   = 0
.lengthFieldLength   = 2
.lengthAdjustment    = -2 (= the length of the Length field)
initialBytesToStrip = 0
```

```
BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

The following message is a simple variation of the first example. An extra
* header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

* `<pre>`
  * `<b>lengthFieldOffset</b> = 2` (= the length of Header 1)
  * `<b>lengthFieldLength</b> = 3`
  * `lengthAdjustment = 0`
  * `initialBytesToStrip = 0`

* **BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)**

  * +----------+----------+----------------+      +----------+----------+----------------+
  * | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
  * | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
  * +----------+----------+----------------+      +----------+----------+----------------+

* `<pre>`

* **3 bytes length field at the beginning of 5 bytes header, do not strip header**

* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

* `<pre>`
  * `lengthFieldOffset = 0`
  * `lengthFieldLength = 3`
  * `<b>lengthAdjustment</b> = 2` (= the length of Header 1)
  * `initialBytesToStrip = 0`

* **BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)**

  * +----------+----------+----------------+      +----------+----------+----------------+
  * |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
  * | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
  * +----------+----------+----------------+      +----------+----------+----------------+

* `<pre>`

* **2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field**

* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

* `<pre>`
  * `lengthFieldOffset = 1` (= the length of HDR1)
  * `lengthFieldLength = 2`
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes)    AFTER DECODE (13 bytes)
* +-----------------+--------+-----------------+      +-----------------+--------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------+--------+-----------------+      +-----------------+--------+
* </pre>

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>

* BEFORE DECODE (16 bytes)    AFTER DECODE (13 bytes)
* +-----------------+--------+-----------------+      +-----------------+--------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +-----------------+--------+-----------------+      +-----------------+--------+
* </pre>
* @see LengthFieldPrepender
*/

Found in path(s):
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4.1.39-final-sources-1-
  jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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*/
*/
* Written by Robert Harder and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for { @link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/base64/Base64.java
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  jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeadersImpl.java
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  jar/io.netty.handler.codec.protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io.netty.handler.codec.protobuf/ProtobufEncoder.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io.netty.handler.codec.protobuf/ProtocolDetectionState.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io.netty.handler.codec.protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io.netty.handler.codec.protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io.netty.handler.codec.protobuf/UnsupportedValueConverter.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io.netty.handler.codec.HeadersUtils.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io.netty.handler.codec.ProtocolDetectionResult.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io.netty.handler.codec.protobuf/Varint32LengthFieldPrepender.java
* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-
  jar/io.netty.handler.codec.protobuf/ProtobufDecoder.java

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* /opt/cola/permits/1110674842_1606843873.61/0/netty-codec-4-1-39-final-sources-1-jar/io/netty/handler/codecs/MessageAggregationException.java

1.1797 libjpeg 8c
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 * jcmarker.c
 *
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 * Modified 2003-2010 by Guido Vollbeding.
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

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/*
 * jmorecfg.h
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* 
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

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/*
 * jcprepct.c
 *
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 *
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 *
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

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 * jdpostct.c
 *
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 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

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/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

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* jpeglib.h
*
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

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* jversion.h
*/
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* For conditions of distribution and use, see the accompanying README file.
* This file contains software version identification.
*/

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/ *
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

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/ *
* jmemdos.c
*
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides an MS-DOS-compatible implementation of the system-
* dependent portion of the JPEG memory manager. Temporary data can be
* stored in extended or expanded memory as well as in regular DOS files.
*
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/

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*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
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*
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[N,...] Set quality ratings
* -qslots N[N,...] Set component quantization table selectors
* -sample HxV[HxV,...] Set component sampling factors
*/

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* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdin stream.
*
* Based on code contributed by Lee Daniel Crocker.
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* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
  *cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
 */

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 * jddctmgr.c
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

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/*
 * rdppm.c
 *
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 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/

/* Portions of this code are based on the PBMPPLUS library, which is:
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* jdmerge.c
*
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains code for merged upsampling/color conversion.
*
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
*
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* R = Y + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr
* B = Y + K4 * Cb
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.
*
* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
*Corner-aligned (non-CCIR601) sampling alignment.*
* Other special cases could be added, but in most applications these are
* the only common cases.  (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmerge.c
No license file was found, but licenses were detected in source scan.

/*
* cerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the error and message codes for the cjpeg/djpeg
* applications.  These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cerror.h
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Microsoft "BMP"
* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or
* 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdin stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*/  
* jconfig.txt
 * 
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
* 
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
* 
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
/* #define the symbol if yes, #undef it if no. */

/* Does your compiler support function prototypes? */
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"? */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void. */
#define void char

/* Define "const" as empty if your compiler doesn't know the "const" keyword. */
#define const

/* Define this if an ordinary "char" type is unsigned. */
#define CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file. */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file. */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>, but does have a BSD-style <strings.h>. */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in <sys/types.h> instead. */
#undef NEED_SYS_TYPES_H
/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
  * unless you are using a large-data memory model or 80386 flat-memory mode.
  * On less brain-damaged CPUs this symbol must not be defined.
  * (Defining this symbol causes large data structures to be referenced through
  * "far" pointers and to be allocated with a special version of malloc.)
  */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
  * than the first 15 characters.
  */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
  * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
  * and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
  * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
  * actually get "missing structure definition" warnings or errors while
  * compiling the JPEG code.
  */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems. */
#endif
#ifdef _WIN32
#ifndef __RPCNDR_H__	/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN	/* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */
#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

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/* The remaining options do not affect the JPEG library proper.  
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).  
* Other applications can ignore these.  
*/

#endif /* JPEG_CJPEG_DJPEG */

/* Define this if you want to name both input and output files on the command  
* line, rather than using stdout and optionally stdin.  You MUST do this if  
* your system can't cope with binary I/O to stdin/stdout.  See comments at  
* head of cjpeg.c or djpeg.c.  
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.  
* This is crucial under MS-DOS, where the temporary "files" may be areas  
* of extended memory; on most other systems it's not as important.  
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").  
* This is necessary on systems that distinguish text files from binary files,  
* and is harmless on most systems that don't.  If you have one of the rare  
* systems that complains about the "b" spec, define this symbol.  
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjjpeg/djpeg.  
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */
*/

jmemmac.c

Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
*jmemmac.c provides an Apple Macintosh implementation of the system-dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
* JPEG_INTERNALS part of jconfig.h.
*
*jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
* instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
* that more space is left over by reducing max_memory_to_use.
*
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*  
* FSpDelete -> HDelete
* FSpGetFileInfo -> HGetFileInfo
* FSpCreate -> HCreate
* FSpOpenDF -> HOpen *** Note: not HOpenDF ***
* FSMakeFSSpec -> (fill in spec by hand.)
*  
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*
Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemmac.c
No license file was found, but licenses were detected in source scan.

/*
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jidctfst.c
No license file was found, but licenses were detected in source scan.
/*
 * jcparam.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains optional default-setting code for the JPEG compressor.
 * Applications do not have to use this file, but those that don't use it
 * must know a lot more about the innards of the JPEG code.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcparam.c

No license file was found, but licenses were detected in source scan.

;/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
No license file was found, but licenses were detected in source scan.

*/

* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* 
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
* 
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jidctflt.c
No license file was found, but licenses were detected in source scan.

/ *
*jutils.c
*/

* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains tables and miscellaneous utility routines needed
* for both compression and decompression.
* Note we prefix all global names with "j" to minimize conflicts with
* a surrounding application.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jutils.c
No license file was found, but licenses were detected in source scan.

/ *
*jmemname.c
*/

* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a generic implementation of the system-dependent
* portion of the JPEG memory manager. This implementation assumes that
* you must explicitly construct a name for each temp file.
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemname.c
No license file was found, but licenses were detected in source scan.

/ *
*jdtrans.c
*/

* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding decompression,
* that is, reading raw DCT coefficient arrays from an input JPEG file.
* The routines in jdapimin.c will also be needed by a transcoder.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.160/jpeg-8c-zip/jpeg-8c/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* 
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
*  djpeg [options] inputfile outputfile
*  djpeg [options] [inputfile]
*  In the second style, output is always to standard output, which you'd
*  normally redirect to a file or pipe to some other program. Input is
*  either from a named file or from standard input (typically redirected).
*  The second style is convenient on Unix but is unhelpful on systems that
*  don't support pipes. Also, you MUST use the first style if your system
*  doesn't do binary I/O to stdin/stdout.
*  To simplify script writing, the "-outfile" switch is provided. The syntax
*  djpeg [options] -outfile outputfile inputfile
*  works regardless of which command line style is used.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.160/jpeg-8c-zip/jpeg-8c/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegtran.c
 *
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpegtran.c
No license file was found, but licenses were detected in source scan.

*/
* jdcolor.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdcolor.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
============================================

README for release 8c of 16-Jan-2011
=====================================

This distribution contains the eighth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJJ is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

OVERVIEW          General description of JPEG and the IJG software.
LEGAL ISSUES       Copyright, lack of warranty, terms of distribution.
REFERENCES         Where to learn more about JPEG.
ARCHIVE LOCATIONS  Where to find newer versions of this software.
ACKNOWLEDGMENTS   Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and gray-scale images.

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless
processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
==============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

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(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice.
unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of
REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS

IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in a contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of the document is Revision 3.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm.

A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8c.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2
ACKNOWLEDGMENTS
================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the iwj.org site.

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

FILE FORMAT WARS
================

The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR" which are incompatible with original DCT-based JPEG and which are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

We have little or no sympathy for the promotion of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)
Version 8 is the first release of a new generation JPEG standard

to overcome the limitations of the original JPEG specification.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@uc.ag.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management
 * routines. This code is usable across a wide variety of machines; most
 * of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * * pool-based allocation and freeing of memory;
 * * policy decisions about how to divide available memory among the
 * virtual arrays;
 * * control logic for swapping virtual arrays between main memory and
 * backing storage.
 * The separate system-dependent file provides the actual backing-storage
 * access code, and it contains the policy decision about how much total
 * main memory to use.
 * This file is system-dependent in the sense that some of its functions
 * are unnecessary in some systems. For example, if there is enough virtual
 * memory so that backing storage will never be used, much of the virtual
 * array control logic could be removed. (Of course, if you have that much
 * memory then you shouldn't care about a little bit of unused code...)
 */

/*
 * jidctint.c
 *
Open Source Used In Data Center Network Manager 11.5(1)  18332

* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.

* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.

* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.

* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.

* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.

* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.

* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
*/
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

*/
* jdarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy decoding routines for JPEG
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdarith.c
No license file was found, but licenses were detected in source scan.

*/
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
* jctrans.c
*
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.h
*
* Copyright (C) 1997-2009, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/transupp.h
No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-compression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_compress, it will end up linking in the entire compressor.
 * We thus must separate this file from jcapimin.c to avoid linking the
 * whole compression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrppm.c
No license file was found, but licenses were detected in source scan.
IJK JPEG LIBRARY: FILE LIST

Copyright (C) 1994-2009, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJK JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djpeg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY

Include files:

jeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present
in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed
for a standard installation.
jerror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJK .c files to reference
system include files.
jegint.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jeglib.h (which in turn
includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included
if the application needs to reference individual JPEG error codes. The
other include files are intended for internal use and would not normally
be included by an application program. (cjpeg/djpeg/etc do use jinclude.h,
since its function is to improve portability of the whole IJK distribution.
Most other applications will directly include the system include files they
want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by
an application program:
jcapi.min.c: Application program interface: core routines for compression.
jcapistd.c: Application program interface: standard compression.
jdapiminc.c: Application program interface: core routines for decompression.
jdapistd.c: Application program interface: standard decompression.
jcomapi.c: Application program interface routines common to compression and decompression.
jparam.c: Compression parameter setting helper routines.
jtrans.c: API and library routines for transcoding compression.
jdtrans.c: API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c: Initialization: determines which other modules to use.
jcmaster.c: Master control: setup and inter-pass sequencing logic.
jcmainct.c: Main buffer controller (preprocessor => JPEG compressor).
jpreptc.c: Preprocessor buffer controller.
jcoeftc.c: Buffer controller for DCT coefficient buffer.
jccolor.c: Color space conversion.
jsample.c: Downsampling.
jdctmgr.c: DCT manager (DCT implementation selection & control).
jfdctint.c: Forward DCT using slow-but-accurate integer method.
jfdctfst.c: Forward DCT using faster, less accurate integer method.
jfdctflt.c: Forward DCT using floating-point arithmetic.
jchuff.c: Huffman entropy coding.
jcarith.c: Arithmetic entropy coding.
jcmarker.c: JPEG marker writing.
jdatadst.c: Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c: Master control: determines which other modules to use.
jinput.c: Input controller: controls input processing modules.
jmainct.c: Main buffer controller (JPEG decompressor => postprocessor).
jdcoeftc.c: Buffer controller for DCT coefficient buffer.
jdpostct.c: Postprocessor buffer controller.
jdmarker.c: JPEG marker reading.
jdhuff.c: Huffman entropy decoding.
jdarith.c: Arithmetic entropy decoding.
jdctmgr.c: DCT manager (IDCT implementation selection & control).
jidctint.c: Inverse DCT using slow-but-accurate integer method.
jidctfst.c: Inverse DCT using faster, less accurate integer method.
jidctflt.c: Inverse DCT using floating-point arithmetic.
jdsample.c: Upsampling.
jcolor.c: Color space conversion.
jmerge.c: Merged upsampling/color conversion (faster, lower quality).
jquant1.c: One-pass color quantization using a fixed-spacing colormap.
jquant2.c: Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.

jdatasrc.c: Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c: Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c: Standard error handling routines (application replaceable).
jmemmgr.c: System-independent (more or less) memory management code.
jutils.c: Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c: "No backing store": assumes adequate virtual memory exists.
jmemansi.c: Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c: Makes temporary files with program-generated file names.
jmemdos.c: Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.
jmemmac.c: Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm: 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

Include files:

cdjpeg.h: Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h: Additional error and trace message codes for cjpeg et al.
transupp.h: Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c: Main program for cjpeg.
djpeg.c: Main program for djpeg.
jpegtran.c: Main program for jpegtran.
cdjpeg.c Utility routines used by all three programs.
rdocolmap.c Code to read a colormap file for djpeg's "-map" switch.
rdsswitch.c Code to process some of cjpeg's more complex switches. Also used by jpegtran.
transupp.c Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c BMP file input.
rdfgif.c GIF file input (now just a stub).
rddpm.c PPM/PGM file input.
rdrle.c Utah RLE file input.
rdtarga.c Targa file input.

Image file writer modules for djpeg:

wrbmp.c BMP file output.
wrdfgif.c GIF file output (a mere shadow of its former self).
wrddpm.c PPM/PGM file output.
wrdrle.c Utah RLE file output.
wrftarga.c Targa file output.

RDJPGCOM/WRJPGCOM
=================

C source code files:

rdjpcom.c Stand-alone rdjpcom application.
wrjpcom.c Stand-alone wrjpcom application.

These programs do not depend on the IJG library. They do use
jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
================

Documentation (see README for a guide to the documentation files):

READMEMaster documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):
configureUnix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltmain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
ckconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak*.* Sample makefiles for particular systems.
jconfig.* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
aclocal.m4 Macro definitions for use with Autoconf.
ansi2knr.c De-ANSIfier for pre-ANSI C compilers (courtesy of
L. Peter Deutsch and Aladdin Enterprises).

Test files (see install.txt for test procedure):

test*.* Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/filelist.txt
No license file was found, but licenses were detected in source scan.

/*
 *
 * jdsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2002-2008 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */
/*
 * jdatasrc.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage.  If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

/*
 * jccolor.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains input colorspace conversion routines.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jccolor.c

No license file was found, but licenses were detected in source scan.

/ *
* transupp.c
* 
* Copyright (C) 1997-2009, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/transupp.c

No license file was found, but licenses were detected in source scan.

IJC JPEG LIBRARY: SYSTEM ARCHITECTURE

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This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsamped image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:

* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the
image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.
Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to
allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks.

It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct.
The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself
appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

input data => processing step A => buffer => processing step B => output data

|              |               |
------------------ controller ------------------

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.
*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
   |-- Preprocessing controller --|
   |                              |-- Downsampling
Main controller --|
   |                      |-- Forward DCT, quantize
   |-- Coefficient controller --|
   |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* **Main controller**: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* **Preprocessing controller**: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* **Colorspace conversion**: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* **Downsampling**: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* **Coefficient controller**: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing
Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects
are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
 |-- Coefficient controller --|      |-- Dequantize, Inverse DCT
 |                            |-- Dequantize, Inverse DCT
Main controller --|                  |-- Upsampling
 |                               |-- Postprocessing controller --|-- Colorspace conversion
 |                                |-- Color quantization
 |                                |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons.
When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.
* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be
classified as belonging to data input or data output, and each section must
look only at its own variables. For example, the data output section may not
depend on any of the variables that describe the current scan in the JPEG
file, because these may change as the data input section advances into a new
scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the
file as one pass when buffered-image mode is not used, and to ignore data
input work completely when buffered-image mode is used. Note that the
library has no reliable way to predict the number of passes when dealing
with a progressive JPEG file, nor can it predict the number of output passes
in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because
there isn’t any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE;a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW;ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY;ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE;ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char,
(signed) char, or short. Short will be used if samples wider than 8 bits are
to be supported (this is a compile-time option). Otherwise, unsigned char is
used if possible. If the compiler only supports signed chars, then it is
necessary to mask off the value when reading. Thus, all reads of JSAMPLE
values must be coded as "GETJSAMPLE(value)", where the macro will be defined
as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps
simplify correct rounding during downsampling, etc. The JPEG standard’s
specification that sample values run from -128..127 is accommodated by
subtracting 128 from the sample value in the DCT step. Similarly, during
decompression the output of the IDCT step will be immediately shifted back to
0..255. (NB: different values are required when 12-bit samples are in use.
The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be
declared as 255 and 128 respectively in an 8-bit implementation, and as 4095
and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This
choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn’t need to know the allocated width of
the rows. This simplifies edge expansion/compression, since we can work
in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").
The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.
Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec’s internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU: a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***
The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image
lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup. The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify
the virtual array control logic, and partly because some file systems may not
support seeking beyond the current end-of-file in a temporary file. The main
implication of this restriction is that rearrangement of rows (such as
converting top-to-bottom data order to bottom-to-top) must be handled while
reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the
memory manager into two parts. There is a reasonably system-independent
"front end" (jmemmgr.c) and a "back end" that contains only the code
likely to change across systems. All of the memory management methods
outlined above are implemented by the front end. The back end provides
the following routines for use by the front end (none of these routines
are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a
separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/structure.txt
No license file was found, but licenses were detected in source scan.

/*
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrbmp.c
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/* Copyright (C) 1989, 2000 Aladdin Enterprises. All rights reserved. */
/*
ansi2knr is distributed in the hope that it will be useful, but WITHOUT ANY
WARRANTY. No author or distributor accepts responsibility to anyone for the
consequences of using it or for whether it serves any particular purpose or
works at all, unless he says so in writing. Refer to the GNU General Public
License (the "GPL") for full details.

Everyone is granted permission to copy, modify and redistribute ansi2knr,
but only under the conditions described in the GPL. A copy of this license
is supposed to have been given to you along with ansi2knr so you can know
your rights and responsibilities. It should be in a file named COPYLEFT,
or, if there is no file named COPYLEFT, a file named COPYING. Among other
things, the copyright notice and this notice must be preserved on all
copies.

We explicitly state here what we believe is already implied by the GPL: if
the ansi2knr program is distributed as a separate set of sources and a
separate executable file which are aggregated on a storage medium together
with another program, this in itself does not bring the other program under
the GPL, nor does the mere fact that such a program or the procedures for
constructing it invoke the ansi2knr executable bring any other part of the
program under the GPL.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/ansi2knr.c
No license file was found, but licenses were detected in source scan.

/*
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
This include file defines the interface between the system-independent
and system-dependent portions of the JPEG memory manager. No other
modules need include it. (The system-independent portion is jmemmgr.c;
there are several different versions of the system-dependent portion.)

This file works as-is for the system-dependent memory managers supplied
in the IJG distribution. You may need to modify it if you write a
custom memory manager. If system-dependent changes are needed in
this file, the best method is to #ifdef them based on a configuration
symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
and USE_MAC_MEMMGR.

This file contains routines to read input images in GIF format.

NOTE: to avoid entanglements with Unisys' patent on LZW compression,
the ability to read GIF files has been removed from the IJG distribution.
Sorry about that.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

We are required to state that
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmaster.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2010, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have
tried to make this software extremely portable and flexible, so that it can be
adapted to almost any environment. The downside of this decision is that the
installation process is complicated. We have provided shortcuts to simplify
the task on common systems. But in any case, you will need at least a little
familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger
program's installation procedure may take care of configuring the IJG code.
For example, Ghostscript's installation script will configure the IJG code.
You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.
Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files
where you want them). Read further if you run into snags or want to customize
the code for your system.

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BEFORE YOU START
================

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
============================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------
If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions
for GNU configure scripts. It makes a few assumptions that you may want to
override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
  If you want to build libjpeg only as a static library, say
  ./configure --disable-shared
  If you want to build libjpeg only as a shared library, say
  ./configure --disable-static
  Configure uses GNU libtool to take care of system-dependent shared library
  building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
  To force a particular compiler to be selected, use the CC option, for example
  ./configure CC='cc'
  The same method can be used to include any unusual compiler switches.
  For example, on HP-UX you probably want to say
  ./configure CC='cc -Aa'
  to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
  You can override this by saying, for example,
  ./configure CFLAGS='-O2'
  if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files
  into /usr/local/bin, /usr/local/man, etc. You can specify an installation
  prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG
  software's internal virtual memory mechanism. To do this, give the option
  "--enable-maxmem=N" where N is the default maxmemory limit in megabytes.
  This is discussed in more detail under "Selecting a memory manager", below.
  You probably don't need to worry about this on reasonably-sized Unix machines,
  unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling
or working in a network of multiple machine types; but if you need those
features, you probably already know how to use them.
Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration files:

Makefile	jconfig file	System and/or compiler

makefile.manx	jconfig.manx	Amiga, Manx Aztec C
makefile.sas	jconfig.sas	Amiga, SAS C
makefile.manx	jconfig.manx	Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st	jconfig.st	Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc	jconfig.bcc	MS-DOS or OS/2, Borland C
makefile.dj	jconfig.dj	MS-DOS, DJGPP (Delorie’s port of GNU C)
makefile.mc6	jconfig.mc6	MS-DOS, Microsoft C (16-bit only)
makefile.wat	jconfig.wat	MS-DOS, Watcom C
makefile.vc	jconfig.vc	Windows NT/95, MS Visual C++
make*.vc	jconfig.vc	Windows NT/95, MS Visual C++ 6
make*.v10	jconfig.vc	Windows NT/95, MS Visual C++ 2010 (v10)
makefile.mms	jconfig.vms	Digital VMS, with MMS software
makefile.vms	jconfig.vms	Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide
are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES"
in jconfig.h.) You may want to start from one of the other makefiles if
there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular
you may want to change the CC and CFLAGS definitions. For instance, if you
are using GCC, set CC=gcc. If you had to use any compiler switches to get
ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up
project files (or whatever you do use) to compile all the source files and
link them into executable files cjpeg, djpeg, jpegtan, rdjpgcom, and wrjpgcom.
See the file lists in any of the makefiles to find out which files go into
each program. Note that the provided makefiles all make a "library" file
libjpeg first, but you don't have to do that if you don't want to; the file
lists identify which source files are actually needed for compression,
decompression, or both. As a last resort, you can make a batch script that
just compiles everything and links it all together; makefile.vms is an example
of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll
need to make:

Command line style
------------------
These programs can use a Unix-like command line style which supports
redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile
The simpler "two file" command line style is just
cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary
data fed through stdin/stdout; this is true for some MS-DOS compilers, for
example. If you're not on a Unix system, it's safest to assume you need
two-file style. (But if your compiler provides either the Posix-standard
fdopen() library routine or a Microsoft-compatible setmode() routine, you
can safely use the Unix command line style, by defining USE_FDOPEN or
USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".
Selecting a memory manager

--------------------------

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-). This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion.

If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile).
This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
=====================

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
====================

As a quick test of functionality we've included a small sample image in several forms:

- testorig.jpg Starting point for the djpeg tests.
- testimg.ppm The output of djpeg testorig.jpg
- testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
- testimg.jpg The output of cjpeg testimg.ppm
- testprog.jpg Progressive-mode equivalent of testorig.jpg.
- testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
The first- and second-generation .jpg files aren't identical since JPEG is lossy.) If you can generate duplicates of the testing* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjjpeg by hand and compare the output files to testing* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGNTYPE as long should take care of that one.

If the cjjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testing.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
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Once you're done with the above steps, you can install the software by copying the executable files (cjjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom)
to wherever you normally install programs. On Unix systems, you’ll also want to put the man pages (cjpeg.1, djpeg.1, jpegtan.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
===============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory containing the URT .h files (typically the "include" subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).
Support for 12-bit-deep pixel data:

The JPEG standard allows either 8-bit or 12-bit data precision. (For color, this means 8 or 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 12-bit operation.

To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED, because the code for those formats doesn't handle 12-bit data and won't even compile. (The PPM code works, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 12-bit support does not work on 16-bit-int machines.

Note that a 12-bit version will not read 8-bit JPEG files, nor vice versa; so you'll want to keep around a regular 8-bit compilation as well. (Run-time selection of data depth, to allow a single copy that does both, is possible but would probably slow things down considerably; it's very low on our to-do list.)

The PPM reader (rdppm.c) can read 12-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to either maxval=255 or maxval=4095 as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval 4095, when compiled with BITS_IN_JSAMPLE=12. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note that a 12-bit version of cjpeg always runs in "-optimize" mode, in order to generate valid Huffman tables. This is necessary because our
default Huffman tables only cover 8-bit data.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is
that float DCT results may vary slightly across machines.) To do that, add
"#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change
the default, you should redefine JDCT_FASTEST, which is the method selected
by djpeg's -fast switch. Don't forget to update the documentation files
(usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to
define type JCOEF as int rather than short. This will cost a good deal of
memory though, particularly in some multi-pass modes, so don't do it unless
you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE
macro in jmorecfg.h is defined as the keyword that marks a function
inline-able. Some compilers have a switch that tells the compiler to inline
any function it thinks is profitable (e.g., -finline-functions for gcc).
Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler,
and experimenting with any optional optimizations such as loop unrolling.
(Unfortunately, far too many compilers have optimizer bugs ... be prepared to
back off if the code fails self-test.) If you do any experimentation along
these lines, please report the optimal settings to jpeg-info@uc.ag so we
can mention them in future releases. Be sure to specify your machine
and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit
'em to jpeg-info@uc.ag. Also, if configure or ckconfig.c is wrong about how
to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of
makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and
change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the
Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using `!AMU` not `!Make`. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:"

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM nnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.
There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpeg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

"#pragma novector" just before the loop

for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;

in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).

[This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say

./configure CC='cc -Aa'

(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add

"-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want
to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:

1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.


2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C.

   Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert.c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.)

   NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part
Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows.

You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.)

Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)
The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC CHUNK to less than 64K (65520L is a typical value). If your C library’s far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library’s malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.
MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#' is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it "int" by default.
This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

/* Define "boolean" as unsigned char, not int, per Windows custom */
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */

(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far

Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module jerror.c, since our default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(), buffer, "JPEG Error", MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise error messages will disappear into nowhere. (Beginning with IJG v6b, this code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling application after a library error. This can be done with the setjmp/longjmp technique discussed in libjpeg.txt and illustrated in example.c. (NOTE: some older Windows C compilers provide versions of setjmp/longjmp that don't actually work under Windows. You may need to use the Windows system functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words, let Windows do any virtual memory management needed. You should NOT use jmemdos.c nor jmemdosa.asm under Windows.
For Windows 3.1, we recommend compiling in medium or large memory model; for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS sections above for more info about memory models.) In the 16-bit memory models only, you'll need to put

```c
#define MAX_ALLOC_CHUNK 65520L /* Maximum request to malloc() */
```

into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd have to use huge memory model, which slows things down unnecessarily.) jmemnobs.c works without modification in large or flat memory models, but to use medium model, you need to modify its jpeg_get_large and jpeg_free_large routines to allocate far memory. In any case, you might like to replace its calls to malloc and free with direct calls on Windows memory allocation functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file operations rather than fread/fwrite. This is only necessary if your C compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

```c
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist)  \
    type (_far _pascal *methodname, arglist)
```

For a 32-bit DLL you may want something like
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
Although not all the GLOBAL routines are actually intended to be called by
the application, the performance cost of making them all DLL entry points is
negligible.

The unmodified IJG library presents a very C-specific application interface,
so the resulting DLL is only usable from C or C++ applications. There has
been some talk of writing wrapper code that would present a simpler interface
usable from other languages, such as Visual Basic. This is on our to-do list
but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment,
but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need
alteration if you want to use it for Windows --- in particular, you should
use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile
jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix
it. In the meantime, the simplest known workaround is to add a redundant
definition of the variable range_limit in h2v1_merged_upsample(), at the head
of the block that handles odd image width (about line 268 in v6 jdmerge.c):
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the
Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading
to a color shift in processed images) was produced if any of the following
optimization switch combinations were used:
-Ot -Og
-Ot -Op
-Ot -Om
So try backing off on optimization if you see such a problem. (Are there
several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:
jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" { ... } around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match). In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in DevStudio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vc setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files. (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using DevStudio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vc test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Microsoft Visual C++ 2010 Developer Studio (v10):

We include makefiles that should work as project files in Visual Studio 2010 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the
command line
NMAKE /f makefile.vc setup-v10
This will move jconfig.vc to jconfig.h and makefiles to project files.
(Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   (If you are using Visual Studio more recent than 2010 (v10), you'll
   probably get a message saying that the project files are being updated.)
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vc test-build
5. Move the application .exe files from `app`\Release to an
   appropriate location on your path.

Note:
There seems to be an optimization bug in the compiler which causes the
self-test to fail with the color quantization option.
We have disabled optimization for the file jquant2.c in the library
project file which causes the self-test to pass properly.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need
to back off the optimization switch settings. See the comments in
makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile.
If you are using configure, you can do this by saying
./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the
stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2"
reportedly speeds up the float DCT method substantially, enough to make it
faster than the default int method (but still slower than the fast int
method). If you use -mips2, you may want to alter the default DCT method to
be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1"
qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure
reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/install.txt
No license file was found, but licenses were detected in source scan.

/*
* jdcoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
* jcdctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcdctmgr.c
No license file was found, but licenses were detected in source scan.
* jmemansi.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides a simple generic implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that you have the ANSI-standard library routine tmpfile().
* Also, the problem of determining the amount of memory available
* is shoved onto the user.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemansi.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jchuff.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 * *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 * *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jerror.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2010, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.
Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW

========
Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------
The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
  jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
  jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered
into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
====================

Data formats
-------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an
array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (i.e., at most 256 colors for an 8-bit JPEG library).

Compression details
---------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local
variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```c
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.
WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that’s more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

image_width Width of image, in pixels
image_height Height of image, in pixels
input_components Number of color channels (samples per pixel)
in_color_space Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don’t need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There’s no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".
Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

`jpeg_write_scanlines()` returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of `next_scanline`.

6. `jpeg_finish_compress(...);`

After all the image data has been written, call `jpeg_finish_compress()` to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. `jpeg_finish_compress()` also releases working memory associated with the JPEG object.

Typical code:

```c
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, `jpeg_finish_compress()` will perform the additional passes using data buffered by the first pass. In this case `jpeg_finish_compress()` may take quite a while to complete. With the default compression parameters, this will not happen.
It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects.
This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
----------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

   This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

   Typical code:

   ```c
   struct jpeg_decompress_struct cinfo;
   struct jpeg_error_mgr jerr;
   ...
   cinfo.err = jpeg_std_error(&jerr);
   jpeg_create_decompress(&cinfo);
   ```

   (Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

   As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

   If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

   ```c
   FILE * infile;
   ...
   ```
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

jpeg_read_header(&cinfo, TRUE);

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.
4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it
equals out_color_components. It is the number of JSAMPLE values that will be 
emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. 
You will need output_width * output_components JSAMPLEs per scanline in your 
output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate 
data buffers (as djpeg does), then the manager's protocol requires that you 
request large buffers *before* calling jpeg_start_decompress(). This is a 
little tricky since the output_XXX fields are not normally valid then. You 
can make them valid by calling jpeg_calc_output_dimensions() after setting the 
relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read) 
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() 
one or more times. At each call, you pass in the maximum number of scanlines 
to be read (ie, the height of your working buffer); jpeg_read_scanlines() 
will return up to that many lines. The return value is the number of lines 
actually read. The format of the returned data is discussed under "Data 
formats", above. Don't forget that grayscale and color JPEGs will return 
different data formats!

Image data is returned in top-to-bottom scanline order. If you must write 
out the image in bottom-to-top order, you can use the JPEG library's virtual 
array mechanism to invert the data efficiently. Examples of this can be 
found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far 
in the output_scanline field of the JPEG object. Usually you can just use 
this variable as the loop counter, so that the loop test looks like 
"while (cinfo.output_scanline < cinfo.output_height)". (Note that the test 
should NOT be against image_height, unless you never use scaling. The 
image_height field is the height of the original unscaled image.) 
The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that 
jpeg_read_scanlines() reads at least one scanline per call, until the 
bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that 
jpeg_read_scanlines() fills it. (The current implementation returns only a 
few scanlines per call, no matter how large a buffer you pass.) So you must 
always provide a loop that calls jpeg_read_scanlines() repeatedly until the 
whole image has been read.
7. `jpeg_finish_decompress(...)`; 

After all the image data has been read, call `jpeg_finish_decompress()` to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```c
jpeg_finish_decompress(&cinfo);
```

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling `jpeg_destroy_decompress()` or `jpeg_destroy()`. The previous discussion of destroying compression objects applies here too.

Typical code:

```c
jpeg_destroy_decompress(&cinfo);
```


You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

-----------------------------------------------

Applications using the JPEG library should include the header file `jpeglib.h`
to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmennobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES

Compression parameter selection
This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

**jpeg_set_defaults (j_compress_ptr cinfo)**
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

**jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)**
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

**jpeg_default_colorspace (j_compress_ptr cinfo)**
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

**jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)**
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder
is capable of reading the non-baseline files generated at low quality settings when \texttt{force\_baseline} is FALSE, but other decoders may not be.

\begin{verbatim}
jpeg_set_linear_quality (j\_compress\_ptr cinfo, int scale\_factor, boolean force\_baseline)
\end{verbatim}
Same as \texttt{jpeg\_set\_quality()} except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus \texttt{scale\_factor = 100} reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. \texttt{force\_baseline} again constrains the computed table entries to 1..255.

\begin{verbatim}
int jpeg\_quality\_scaling (int quality)
\end{verbatim}
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

\begin{verbatim}
jpeg\_default\_qtables (j\_compress\_ptr cinfo, boolean force\_baseline)
\end{verbatim}
Set default quantization tables with linear \texttt{q\_scale\_factor[]} values (see below).

\begin{verbatim}
jpeg\_add\_quant\_table (j\_compress\_ptr cinfo, int which\_tbl, const unsigned int *basic\_table, int scale\_factor, boolean force\_baseline)
\end{verbatim}
Allows an arbitrary quantization table to be created. which\_tbl indicates which table slot to fill. basic\_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by \texttt{scale\_factor/100} and then clamped to the range 1..65535 (or to 1..255 if \texttt{force\_baseline} is TRUE). CAUTION: prior to library version 6a, \texttt{jpeg\_add\_quant\_table} expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "\#if JPEG\_LIB\_VERSION >= 61" is the right test.

\begin{verbatim}
jpeg\_simple\_progression (j\_compress\_ptr cinfo)
\end{verbatim}
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:
int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable
the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder,
introduced with IJG JPEG 8. Setting the block_size parameter for
compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is
1/1, or no scaling. Currently, the supported scaling ratios are
M/N with all N from 1 to 16, where M is the destination DCT size,
which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this
is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If
restart_in_rows is not 0, then restart_interval is set after the
image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG
files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those
cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a
single-scan sequential JPEG file. If not NULL, scan_info points to
an array of scan definition records of length num_scans. The
compressor will then write a JPEG file having one scan for each scan
definition record. This is used to generate noninterleaved or
progressive JPEG files. The library checks that the scan array
defines a valid JPEG scan sequence. (jpeg_simple_progression creates
a suitable scan definition array for progressive JPEG.) This is
discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c
for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space
(ie, YCbCr or grayscale) is selected, otherwise FALSE.
UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write
any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1
indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and
jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea
to set both write_JFIF_header and write_Adobe_marker. In fact,
you probably shouldn't change the default settings at all --- the
default behavior ensures that the JPEG file's color space can be
recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot,
or NULL if no table is defined for a slot. Usually these should
be set via one of the above helper routines; jpeg_add_quant_table()
is general enough to define any quantization table. The other
routines will set up table slot 0 for luminance quality and table
slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100)
for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] fields are the "linear" scales, so you
have to convert from user-defined ratings via jpeg_quality_scaling().
Here is an example code which corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.
Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except
int quant_tbl_no
Quantization table number for component. The default value is
0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are
0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in
release v6, the compressor library will fill this in automatically;
you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression
parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application.
(Unless you are working with abbreviated files, in which case see
"Abbreviated datastreams", below.) Decompression parameters control
the postprocessing done on the image to deliver it in a format suitable
for the application's use. Many of the parameters control speed/quality
tradeoffs, in which faster decompression may be obtained at the price of
a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and
may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Colorspace of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG
standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented: you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored.
when the application supplies its own color map.

**J_DITHER_MODE** dither_mode
Selects color dithering method. Supported values are:
- JDITHER_NONE: no dithering; fast, very low quality
- JDITHER_ORDERED: ordered dither; moderate speed and quality
- JDITHER_FS: Floyd-Steinberg dither; slow, high quality

Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

**JSAMPARRAY** colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

**J_DCT_METHOD** dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

```c
boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
```

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

```c
JDIMENSION output_width  // Actual dimensions of output image.
JDIMENSION output_height
int out_color_components  // Number of color components in out_color_space.
int output_components     // Number of color components returned.
int rec_outbuf_height    // Recommended height of scanline buffer.
```

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The
existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <-> YCbCr and CMYK <-> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field
in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcp4am.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports
YCbCr => GRAYSCALE
YCbCr => RGB
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot “fix” this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.
In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

- **init_destination (j_compress_ptr cinfo)**
  Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

- **empty_output_buffer (j_compress_ptr cinfo)**
  This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).
term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all
data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).
skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.
I/O suspension

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required...
more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs
to be re-read upon resumption. In most implementations, you'll need to shift
this data down to the start of your work buffer and then load more data after
it. Again, this behavior means that a several-Kbyte work buffer is essential
for decent performance; furthermore, you should load a reasonable amount of
new data before resuming decompression. (If you loaded, say, only one new
byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a
suspension scenario. This routine is NOT granted the ability to suspend the
decompressor; it can decrement bytes_in_buffer to zero, but no more. If the
requested skip distance exceeds the amount of data currently in the input
buffer, then skip_input_data() must set bytes_in_buffer to zero and record the
additional skip distance somewhere else. The decompressor will immediately
call fill_input_buffer(), which should return FALSE, which will cause a
suspension return. The surrounding application must then arrange to discard
the recorded number of bytes before it resumes loading the input buffer.
(Yes, this design is rather baroque, but it avoids complexity in the far more
common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning
and insert dummy EOI markers just as a non-suspending data source manager
would do. This can be handled either in the surrounding application logic or
within fill_input_buffer(); the latter is probably more efficient. If
fill_input_buffer() knows that no more data is available, it can set the
pointer/count to point to a dummy EOI marker and then return TRUE just as
though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers;
instead it will backtrack to the start of the marker and reprocess the whole
marker next time. Hence the input buffer must be large enough to hold the
longest standard marker in the file. Standard JPEG markers should normally
not exceed a few hundred bytes each (DHT tables are typically the longest).
We recommend at least a 2K buffer for performance reasons, which is much
larger than any correct marker is likely to be. For robustness against
damaged marker length counts, you may wish to insert a test in your
application for the case that the input buffer is completely full and yet
the decoder has suspended without consuming any data --- otherwise, if this
situation did occur, it would lead to an endless loop. (The library can't
provide this test since it has no idea whether "the buffer is full", or
even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn
markers, but these are handled specially: they are either saved into allocated
memory, or skipped over by calling skip_input_data(). In the former case,
suspension is handled correctly, and in the latter case, the problem of
buffer overrun is placed on skip_input_data's shoulders, as explained above.
Note that if you provide your own marker handling routine for large markers,
you should consider how to deal with buffer overflow.
Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It’s much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
--------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable “scan script” defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder.
Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library’s "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.

The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT’d data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending
input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
---------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() / start a new output pass /
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() / terminate output pass /
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);

The second parameter to jpeg_start_output() indicates which scan of the input
file is to be displayed; the scans are numbered starting at 1 for this
purpose. (You can use a loop counter starting at 1 if you like, but using
the library's input scan counter is easier.) The library automatically reads
data as necessary to complete each requested scan, and jpeg_finish_output()
advances to the next scan or end-of-image marker (hence input_scan_number
will be incremented by the time control arrives back at jpeg_start_output()).

With this technique, data is read from the input file only as needed, and
input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the
buffered image remains available; it can be read additional times by
repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()
sequence. For example, a useful technique is to use fast one-pass color
quantization for display passes made while the image is arriving, followed by
a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such
until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release
the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can
cause the library to decode input data in advance of what's needed to produce
output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can’t avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered
image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete
the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need
not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
  of course this has no impact if not using color quantization. Typically
  one would use ordered dither for initial passes, then switch to
  Floyd-Steinberg dither for the final pass. Caution: changing dither mode
  can cause more memory to be allocated by the library. Although the amount
  of memory involved is not large (a scanline or so), it may cause the
  initial max_memory_to_use specification to be exceeded, which in the worst
  case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image.
  During the first DC-only scan, block smoothing provides a very "fuzzy" look
  instead of the very "blocky" look seen without it; which is better seems a
  matter of personal taste. But block smoothing is nearly always a win
  during later stages, especially when decoding a successive-approximation
  image: smoothing helps to hide the slight blockiness that otherwise shows
  up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
  You *cannot* change between full-color and quantized output (because that
  would alter the required I/O buffer sizes), but you can change which
  quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display.

The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of
   two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is
   probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which
one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.)

You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant: fixed color cube colormap
- enable_external_quant: externally-supplied colormap
- enable_2pass_quant: two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.

2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
---------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead.
The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)
To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)
    cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
```
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);

huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
---------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.
By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is
not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call

```c
jpeg_save_markers(cinfo, marker_code, length_limit)
```

where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers;
if you try to set a small nonzero length limit on these types, the library
will silently force the length up to the minimum it wants. (But you can set
a zero length limit to prevent them from being saved at all.) Also, in a
16-bit environment, the maximum length limit may be constrained to less than
65533 by malloc() limitations. It is therefore best not to assume that the
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling
jpeg_set_marker_processor(). A marker processor routine must have the
signature

boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it
in cinfo->unread_marker. At the time of call, the marker proper has been
read from the data source module. The processor routine is responsible for
reading the marker length word and the remaining parameter bytes, if any.
Return TRUE to indicate success. (FALSE should be returned only if you are
using a suspending data source and it tells you to suspend. See the standard
marker processors in jdmarker.c for appropriate coding methods if you need to
use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to
recognize JFIF and Adobe markers if you want colorspace recognition to occur
properly. We recommend copying and extending the default processors if you
want to do that. (A better idea is to save these marker types for later
examination by calling jpeg_save_markers(); that method doesn't interfere
with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive
--- if you call one it overrides any previous call to the other, for the
particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c.
Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
-----------------------------

Some applications need to supply already-downsampled image data to the JPEG
compressor, or to receive raw downsampled data from the decompressor. The
library supports this requirement by allowing the application to write or
read raw data, bypassing the normal preprocessing or postprocessing steps.
The interface is different from the standard one and is somewhat harder to
use. If your interest is merely in bypassing color conversion, we recommend
that you use the standard interface and simply set jpeg_color_space =
in_color_space (or jpeg_color_space = out_color_space for decompression).
The mechanism described in this section is necessary only to supply or
receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().)
  This notifies the library that you will be supplying raw data.
  Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use real downsampled data. (It is set TRUE by jpeg_set_defaults().)
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the
The required dimensions of the supplied data can be computed for each component as
\[ \text{cinfo->comp_info[i].width_in_blocks}\times\text{DCTSIZE} \text{ samples per row} \]
\[ \text{cinfo->comp_info[i].height_in_blocks}\times\text{DCTSIZE} \text{ rows in image} \]
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here.

Assume 2h2v downsampling of YCbCr data, that is
\[ \text{cinfo->comp_info[0].h_samp_factor} = 2 \text{ for Y} \]
\[ \text{cinfo->comp_info[0].v_samp_factor} = 2 \]
\[ \text{cinfo->comp_info[1].h_samp_factor} = 1 \text{ for Cb} \]
\[ \text{cinfo->comp_info[1].v_samp_factor} = 1 \]
\[ \text{cinfo->comp_info[2].h_samp_factor} = 1 \text{ for Cr} \]
\[ \text{cinfo->comp_info[2].v_samp_factor} = 1 \]
and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downsampled_width = 101 and width_in_blocks = 13 for Y, downsampled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13\times8 = 104 columns and rows, the Cb/Cr data to at least 7\times8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7\times16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing. You must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real
downsampled data (it is set TRUE by jpeg_read_header()).
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is
the same as for raw-data compression). The buffer you pass must be large
enough to hold the actual data plus padding to DCT-block boundaries. As with
compression, any entirely dummy DCT blocks are not processed so you need not
allocate space for them, but the total scanline count includes them. The
above example of computing buffer dimensions for raw-data compression is
equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source
module suspends, jpeg_read_raw_data() will return 0. You can also use
buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
----------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT
coefficients. This facility is mainly intended for use in lossless
transcoding between different JPEG file formats. Other possible applications
include lossless cropping of a JPEG image, lossless reassembly of a
multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do
jpeg_read_header() as usual. But instead of calling jpeg_start_decompress()
and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the
entire image into a set of virtual coefficient-block arrays, one array per
component. The return value is a pointer to an array of virtual-array
descriptors. Each virtual array can be accessed directly using the JPEG
memory manager's access_virt_barray method (see Memory management, below,
and also read structure.txt's discussion of virtual array handling). Or,
for simple transcoding to a different JPEG file format, the array list can
just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in
normal array order (not JPEG zigzag order). The block arrays contain only
DCT blocks containing real data; any entirely-dummy blocks added to fill out
interleaved MCUs at the right or bottom edges of the image are discarded
during reading and are not stored in the block arrays. (The size of each
block array can be determined from the width_in_blocks and height_in_blocks
fields of the component's comp_info entry.) This is also the data format
expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress()
to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frame might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpegSuppressTables(), or set the tables' individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in
completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)
--------------------------------------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discover it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that's been read
will probably be more useful than using the library's value.

Memory management
-------------------

This section covers some key facts about the JPEG library's built-in memory
manager. For more info, please read structure.txt's section about the memory
manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the
memory manager. If necessary, you can replace the "back end" of the memory
manager to control allocation yourself (for example, if you don't want the
library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG
object is destroyed. Most data is allocated "per image" and is freed by
jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the
memory manager yourself to allocate structures that will automatically be
freed at these times. Typical code for this is
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (e.g., two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-----------

Working memory requirements while performing compression or decompression
As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEMSTATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and
a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jpegcfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.
More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):

Open Source Used In Data Center Network Manager 11.5(1) 18454
No license file was found, but licenses were detected in source scan.

/*
 * ckconfig.c
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/ckconfig.c

No license file was found, but licenses were detected in source scan.

/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jccoefct.c

No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
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No license file was found, but licenses were detected in source scan.

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modification developed 2003-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide FDCT routines with various input sample block sizes for
 * direct resolution reduction or enlargement and for direct resolving the
 * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
 * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
 *
 * For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
***********************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.       *
* There is no trace of the LZW algorithm in this file.                *
***********************************************************************

* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
*/

/*
 * This code is loosely based on ppmtogif from the PBPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCODE by David Rowley <mgardi@watdscu.watwaterloo.edu>.
 * Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
 * Copyright (C) 1989 by Jef Poskanzer.
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that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation. This software is provided "as is" without express or
implied warranty.

We are also required to state that
"The Graphics Interchange Format (c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
CompuServe Incorporated."

Found in path(s):

```
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrgif.c
```

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**IJG JPEG LIBRARY: CODING RULES**

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This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

```
/*
 *  Block comments in this style.
 */
```

We indent statements in K&R style, e.g.,
```
if (test) {
    then-part;
} else {
    else-part;
}
```

with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)
Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

    LOCAL(int *)
    function_name (int a, char *b)
    {
        code...
    }

Note that each function definition must begin with GLOBAL(type), LOCAL(type),
or METHODDEF(type). These macros expand to "static type" or just "type" as
appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage
keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in
structs). We handle these with a macro JMETHOD, defined as

    #ifdef HAVE_PROTOTYPES
    #define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
    #else
    #define JMETHOD(type,methodname,arglist)  type (*methodname) ()
    #endif

which is used like this:

    struct function_pointers {
        JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
        JMETHOD(void, term_entropy_encoder, (void));
    };

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations
(see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype
declaration to coerce actual parameters into the right types. Therefore, use
explicit casts on actual parameters whenever the actual parameter type is not
identical to the formal parameter. Beware of implicit conversions to "int".
It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcmainct.c
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/*
 * jdhuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdhuff.c
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/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend

on the hardware's floating point capacity.

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT on each column. Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

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This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This include file contains common declarations for the forward and inverse DCT modules. These declarations are private to the DCT managers (j dctmgr.c, j dctmgr.c) and the individual DCT algorithms. The individual DCT algorithms are kept in separate files to ease machine-dependent tuning (e.g., assembly coding).

Found in path(s):
*/
jdct.h
*
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This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This include file contains common declarations for the forward and inverse DCT modules. These declarations are private to the DCT managers (j dctmgr.c, j dctmgr.c) and the individual DCT algorithms. The individual DCT algorithms are kept in separate files to ease machine-dependent tuning (e.g., assembly coding).
*/

No license file was found, but licenses were detected in source scan.

/*
jdct.c
*/

No license file was found, but licenses were detected in source scan.

/*
jdmarker.c
*/
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmarker.c
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/ *
* jquant2.c
 *
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*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jquant2.c
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/*
* jcinit.c
 *
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*
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* 
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcmaster.c
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/*
* jinclude.h
*
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* 
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
* 
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jinclude.h
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/*
* jcsample.c
*
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* 
* This file contains downsampling routines.
* 
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
* 
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcsample.c
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/*
* rdcolmap.c
* 
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* 
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
* 
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtoimg(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/
/* Portions of this code are based on the PBPLUS library, which is:
**
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*/

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* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdcolmap.c
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/*
* jmemnobs.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
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*
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemnobs.c
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/*
* jdinput.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
  processing (marker reading and coefficient decoding). The actual input
  reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdinput.c
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/*
 * jcmaster.c
 *
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 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcmaster.c
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/*
 * rdjpgcom.c
 *
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 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */
Found in path(s):
* /opt/cola/permits/161014486_1646171445.160/jpeg-8c-zip/jpeg-8c/rdjpgcom.c

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/*
 * jdatadst.c
 *
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 * Modified 2009 by Guido Vollbeding.
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 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.160/jpeg-8c-zip/jpeg-8c/jdatadst.c

1.1798 jackson-module-parameter-names

2.10.1

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1.1799 abego-treelayout-core 1.0.1

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1.1800 httpcomponents-core 4.4.10

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1.1801 sysfsutils 2.1.0-16.el7

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1.1802 freehep-graphics2d 2.3

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jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java
*/
/opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
*/
/opt/cola/permits/1110676728_1606843273.36/0/netty-codec-http2-4-1-32-final-sources-1-
jar/io/netty/handler/codec/http2/Http2StreamChannelBootstrap.java

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## Commands to generate dependency files  
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)  
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code  
SHAREDLIBCFLAGS = -fPIC  
SHAREDLIBCXXFLAGS = -fPIC  
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads  
THREADSCPPFLAGS = -D_REENTRANT  
LICCPPFLAGS =

## Compiler switch to embed a runtime search path  
LD_RPATH=  
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name  
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options  
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix  
SO = so
## Non-shared intermediate object suffix  
STATIC_O = ao

## Compilation rules  
%.$(STATIC_O): $(srcdir)/%.c  
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCCFLAGS) -o $(% @ $(srcdir)/%.c

$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCCFLAGS) -o $(% @ $(srcdir)/%.c

$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCCFLAGS) -o $(% @ $(srcdir)/%.c
## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \ns\(s/(\*$)\).o \[ :\]*/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \ns\(s/(\*$)\).o \[ :\]*/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@

## Versioned libraries rules

%.s$(SO).$(SO_TARGET_VERSION_MAJOR): %.s$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.s$(SO): %.s$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s %{F}.s$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.1805 xerces-j 2.9.1
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ar/jar/org/opensaml/ws/wstrust/impl/ChallengeUnmarshaller.java
jar/org/opensaml/ws/wstrust/impl/SignWithImpl.java
* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wstrust/impl/AllowPostdatingBuilder.java
* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wstrust/impl/SaltMarshaller.java
* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wstrust/impl/OnBehalfOfMarshaller.java
* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wstrust/impl/RequestSecurityTokenBuilder.java
* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wstrust/impl/ParticipantTypeImpl.java
* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wstrust/impl/RequestSecurityTokenResponseCollectionImpl.java
* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wstrust/impl/CanonicalizationAlgorithmImpl.java
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* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wssecurity/Security.java
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jar/org/opensaml/ws/wsfed/implement/RequestedSecurityTokenMarshaller.java
* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wsaddressing/SoapAction.java
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* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wstrust/impl/LifetimeImpl.java
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* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wsaddressing/impl/ProblemHeaderQNameMarshaller.java
* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wssecurity/impl/CodeUnmarshaller.java
* /opt/cola/permits/1000764773_1646171571.0/0/openws-1-5-4-sources-jar/org/opensaml/ws/wssecurity/impl/PasswordBuilder.java

The OASIS specification describes enhancements to SOAP messaging to provide message integrity and confidentiality. This specification also provides a general-purpose mechanism for associating security tokens with message content.

The security token profiles currently supported are:

- Web Services Security UsernameToken Profile 1.1
- Web Services Security SAML Token Profile 1.1
- Web Services Security X.509 Certificate Token Profile 1.1
- Web Services Security Kerberos Token Profile 1.1

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*/
/**
* Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
*
* @param messageContext the current message context
*
* @return true if the encoder provides end-to-end message confidentiality, false if not
*
* @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
* ability
* to provide message confidentiality.
*/

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### 1.1815 python-suds 0.4.1-5.el7

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Version 3, 29 June 2007

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1.1816 json-simple 1.1
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1.1817 fribidi 1.0.2-1.el7_7.1.0atomix1

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Found in path(s):
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/*******************************************************************************/

* $Id: NekoHTMLParser.java 855 2008-03-31 08:54:13Z wolfgang_fahl $
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* $Id: HTMLControl.java 783 2007-07-22 16:08:45Z russgold $
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/*******************************************************************************/

$Id: DocumentTypeImpl.java 754 2006-03-28 00:52:15Z russgold $

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jar/com/meterware/httpunit/dom/DocumentTypeImpl.java
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/*******************************************************************************
**********************
* $Id: HTMLElementScriptable.java 951 2008-05-02 10:11:40Z wolfgang_fahl $
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jar/com/meterware/httpunit/HTMLElementScriptable.java
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*******************************************************************************
**********************
* $Id: AuthorizationRequiredException.java 775 2006-12-21 21:29:48Z russgold $
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*$Id: ServletUnitContext.java 678 2004-09-23 22:48:20Z russgold $

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  jar/com/meterware/servletunit/ServletUnitContext.java
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/*****************************************************************************
**********************/
* $Id: HttpInternalErrorException.java 872 2008-04-01 15:13:17Z wolfgang_fahl $
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  jar/com/meterware/httpunit/HttpInternalErrorException.java
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/*****************************************************************************
**********************/
* $Id: ScriptableDelegate.java 951 2008-05-02 10:11:40Z wolfgang_fahl $
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-
jar/com/meterware/httpunit/scripting/ScriptableDelegate.java
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/***********************************************************************************/

* $Id: UnsupportedActionException.java 688 2004-09-29 17:15:27Z russgold $
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/*******************************************************************************
* $Id: HTMLOptionElementImpl.java 783 2007-07-22 16:08:45Z russgold $ *
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* $Id: HTMLIFrameElementImpl.java 908 2008-04-05 08:24:51Z wolfgang_fahl $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/dom/HTMLIFrameElementImpl.java
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* $Id: WebRequestSource.java 951 2008-05-02 10:11:40Z wolfgang_fahl $
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$Id: NamedNodeMapImpl.java 754 2006-03-28 00:52:15Z russgold $
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/dom/NamedNodeMapImpl.java
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/*****************************************************************************************/

$Id: ScriptingEngineImpl.java 839 2008-03-29 23:30:13Z wolfgang_fahl $
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/javascript/ScriptingEngineImpl.java
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* $Id: HTMLElementBase.java 839 2008-03-29 23:30:13Z wolfgang_fahl $
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* $Id: HTMLPage.java 855 2008-03-31 08:54:13Z wolfgang_fahl $ *
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* $Id: HTMLElementImpl.java 782 2007-07-03 01:13:34Z russgold $ *
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jar/com/meterware/httpunit/dom/HTMLElementImpl.java
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* $Id: FormControl.java 956 2008-05-13 08:58:23Z wolfgang_fahl $
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* $Id: ServletRunner.java 919 2008-04-15 17:56:49Z wolfgang_fahl $
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* $Id: CookieProperties.java 595 2004-02-12 13:03:24Z rssgold $ 
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                          * $Id: HTMLAnchorElementImpl.java 840 2008-03-29 23:53:21Z wolfgang_fahl $ *
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/dom/HTMLAnchorElementImpl.java
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/*******************************************************************************
**************
* $Id: IdentifiedDelegate.java 553 2003-05-23 21:55:12Z russgold *
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/*******************************************************************************
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* $Id: ServletUnitWebResponse.java 619 2004-06-13 20:57:28Z russgold *
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jar/com/meterware/servletunit/JSPServletDescriptor.java
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jar/com/meterware/httpunit/WebResponse.java
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/******************************************************************************
**********************
* $Id: ServletUnitClient.java 796 2007-12-28 14:39:07Z wolfgang_fahl $ 
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/ServletUnitClient.java

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/*$Id: ServletUnitServletConfig.java 680 2004-09-24 19:13:45Z russgold $*/

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jar/com/meterware/servletunit/ServletUnitServletConfig.java
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/*---------------------------------------------------------------------------------------------
  ******************************************************************************************
  * $Id: MessageBody.java 782 2007-07-03 01:13:34Z russgold $  
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Found in path(s):
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jar/com/meterware/httpunit/protocol/MessageBody.java
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/*---------------------------------------------------------------------------------------------
  ******************************************************************************************
  * $Id: PseudoServer.java 826 2008-03-28 00:30:12Z russgold $  
  * 
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-
jar/com/meterware/pseudoserver/PseudoServer.java
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/**********************************************************************************
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* $Id: ScriptHandler.java 754 2006-03-28 00:52:15Z russgold $
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-
jar/com/meterware/httpunit/parsing/ScriptHandler.java
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 * $Id: JUnitServlet.java 570 2003-07-22 01:49:09Z russgold $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-
jar/com/meterware/servletunit/JUnitServlet.java
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 **********************
 * $Id: HTMLHtmlElementImpl.java 767 2006-07-06 04:02:07Z russgold $ *
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Found in path(s):
/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/dom/HTMLHtmlElementImpl.java

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$Id: GetMethodWebRequest.java 782 2007-07-03 01:13:34Z russgold $

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  jar/com/meterware/httpunit/GetMethodWebRequest.java
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* $Id: UnknownMethodException.java 277 2002-07-24 17:32:08Z russgold $ *
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* $Id: Base64.java 445 2002-12-24 15:17:17Z russgold $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/Base64.java

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* $Id: MessageBodyWebRequest.java 783 2007-07-22 16:08:45Z russgold $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/dom/HTMLImageElementImpl.java

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* $Id: HTMLElementPredicate.java 336 2002-09-13 14:17:26Z russgold $ 
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jar/com/meterware/httpunit/dom/HTMLTitleElementImpl.java
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* $Id: HTMLContainerElement.java 908 2008-04-05 08:24:51Z wolfgang_fahl $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/parsing/HTMLParserFactory.java
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* $Id: HTMLParserFactory.java 855 2008-03-31 08:54:13Z wolfgang_fahl $
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jar/com/meterware/httpunit/protocol/URLEncodedMessageBody.java
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/****************************
************
* $Id: DomBasedScriptingEngineFactory.java 833 2008-03-28 12:24:08Z wolfgang_fahl $
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/dom/DomBasedScriptingEngineFactory.java
No license file was found, but licenses were detected in source scan.

 found in path(s):
* $Id: HttpNotFoundException.java 862 2008-03-31 17:37:20Z wolfgang_fahl $
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* $Id: HTMLParagraphElementImpl.java 908 2008-04-05 08:24:51Z wolfgang_fahl $
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/****************************
***********************
* $Id: ScriptingHandler.java 778 2007-05-16 19:07:49Z russgold $
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 Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/InvocationContextFactory.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/InvocationContextFactory.java
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/InvocationContextFactory.java
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/InvocationContextFactory.java
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/InvocationContextFactory.java
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/InvocationContextFactory.java
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/InvocationContextFactory.java
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/InvocationContextFactory.java
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* $Id: WebResourceConfiguration.java 604 2004-02-26 17:36:47Z russgold $ *
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/************
**/  
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* $Id: HTMLHeadElementImpl.java 767 2006-07-06 04:02:07Z russgold $ 
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/*******************************************************************************/
 *****************************************************************************/
* $Id: DialogAdapter.java 571 2003-08-20 12:06:15Z russgold $ *
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 *****************************************************************************/
* $Id: FixedURLWebRequestSource.java 783 2007-07-22 16:08:45Z russgold $ *
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  jar/com/meterware/httpunit/FixedURLWebRequestSource.java
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* $Id: HTMLLinkElementImpl.java 767 2006-07-06 04:02:07Z russgold $ *
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/dom/HTMLLinkElementImpl.java

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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/WebApplication.java

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* $Id: CookieListener.java 606 2004-03-02 10:51:39Z russgold $
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jar/com/meterware/httpunit/cookies/CookieListener.java

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***********************
* $Id: IllegalRequestParameterException.java 166 2001-11-09 18:35:14Z russgold *
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jar/com/meterware/httpunit/IllegalRequestParameterException.java

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* $Id: ScriptingEngine.java 768 2006-10-09 03:16:26Z russgold *
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/javase/lib/standard-classes.jar
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* $Id: AppletStubImpl.java 425 2002-11-22 17:19:36Z russgold $
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* $Id: ScriptingHandler.java 839 2008-03-29 23:30:13Z wolfgang_fahl $
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  jar/com/meterware/httpunit/scripting/ScriptingHandler.java
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/*************************************************************************************
***********************
* $Id: IllegalParameterValueException.java 910 2008-04-06 06:30:11Z wolfgang_fahl $
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  jar/com/meterware/httpunit/controls/IllegalParameterValueException.java
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* $Id: ServletUnitServletContext.java 982 2008-05-20 19:47:44Z russgold $
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  jar/com/meterware/servletunit/ServletUnitServletContext.java
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* $Id: HTMLParserListener.java 447 2002-12-25 15:23:11Z russgold $*
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* $Id: WebRequest.java 958 2008-05-13 09:25:29Z wolfgang_fahl $ *
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* $Id: NodeImpl.java 839 2008-03-29 23:30:13Z wolfgang_fahl $
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  jar/com/meterware/httpunit/dom/HTMLAppletElementImpl.java
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* $Id: NekoDOMParser.java 855 2008-03-31 08:54:13Z wolfgang_fahl $ *
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/* $Id: HTMLElement.java 866 2008-04-01 07:04:28Z wolfgang_fahl $ */

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jar/com/meterware/httpunit/HTMLElement.java
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* $Id: WebClientListener.java 237 2002-02-28 14:30:34Z russgold $
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*$Id: JavaScriptEngineFactory.java 907 2008-04-05 08:16:49Z wolfgang_fahl $*

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* $Id: HttpWebResponse.java 946 2008-04-30 05:49:08Z wolfgang_fahl $
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Found in path(s):
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***********************
* $Id: ResetButton.java 871 2008-04-01 15:02:41Z wolfgang_fahl $*
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* $Id: DispatchedRequestWrapper.java 475 2003-02-21 15:44:00Z russgold $*
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/*******************************************************************************/
* $Id: ParameterCollection.java 908 2008-04-05 08:24:51Z wolfgang_fahl $
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* $Id: WebApplet.java 822 2008-03-26 18:36:27Z wolfgang_fahl $
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jar/com/meterware/httpunit/WebApplet.java
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/******************************************************************************
******************************************************************************
* $Id: TextImpl.java 767 2006-07-06 04:02:07Z russgold $ *
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* $Id: ClientProperties.java 797 2007-12-28 15:16:07Z wolfgang_fahl $ *
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* $Id: URLEncodedString.java 908 2008-04-05 08:24:51Z wolfgang_fahl $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/protocol/URLEncodedString.java
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* $Id: FormControl.java 786 2007-11-23 18:36:23Z wolfgang_fahl $
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* $Id: SelectionOptions.java 571 2003-08-20 12:06:15Z russgold $ *
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* $Id: WebClient.java 867 2008-04-01 08:07:02Z wolfgang_fahl $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/WebClient.java

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$Id: FilterMetaData.java 604 2004-02-26 17:36:47Z russgold $

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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/servletunit/FilterMetaData.java
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* $Id: HTMLDocumentImpl.java 829 2008-03-28 10:17:35Z wolfgang_fahl $ *
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* $Id: HTMLFormElementImpl.java 856 2008-03-31 09:09:12Z wolfgang_fahl $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/dom/HTMLFormElementImpl.java
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* $Id: Button.java 871 2008-04-01 15:02:41Z wolfgang_fahl $
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  jar/com/meterware/httpunit/RadioButtonFormControl.java
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* $Id: HttpRequest.java 752 2006-03-24 20:19:23Z russgold $*
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* $Id: TextBlock.java 688 2004-09-29 17:15:27Z russgold $  
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* $Id: TableRow.java 779 2007-05-27 02:23:49Z russgold $  
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* $Id: Cookie.java 982 2008-05-20 19:47:44Z russgold $
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***************
* $Id: CookieSource.java 383 2002-10-17 23:52:49Z russgold $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/protocol/ParameterProcessor.java
No license file was found, but licenses were detected in source scan.

().'/*****************************************************************************************/

Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/protocol/HttpsProtocolSupport.java

*********************************************************************************************/

/***********************************************************/

* $Id: HttpsProtocolSupport.java 805 2007-12-30 09:34:54Z wolfgang_fahl $
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/******************************************************************************************
***********************
* $Id: DomWindow.java 908 2008-04-05 08:24:51Z wolfgang_fahl $ *
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/******************************************************************************************
***********************
* $Id: ServletMetaData.java 604 2004-02-26 17:36:47Z russgold $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-
jar/com/meterware/servletunit/ServletMetaData.java
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jar/com/meterware/httpunit/cookies/CookieJar.java
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* $Id: WebConversation.java 815 2007-12-31 11:43:52Z wolfgang_fahl $ *
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jar/com/meterware/httpunit/WebConversation.java
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***********************
* $Id: HTMLParser.java 855 2008-03-31 08:54:13Z wolfgang_fahl $ *
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$Id: HttpHeader.java 908 2008-04-05 08:24:51Z wolfgang_fahl$

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******************************************************************************
***********************
* $Id: InvocationContextImpl.java 775 2006-12-21 21:29:48Z russgold *
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jar/com/meterware/servletunit/InvocationContextImpl.java

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******************************************************************************
***********************
* $Id: NoSuchFrameException.java 234 2002-02-14 14:33:49Z russgold *
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* $Id: ServletUnitHttpSession.java 678 2004-09-23 22:48:20Z russgold $
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jar/com/meterware/httpunit/protocol/UploadFileSpec.java
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*******************************************************************************/
* $Id: PseudoServlet.java 582 2003-09-30 00:15:05Z russgold $  *
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jar/com/meterware/httpunit/HttpException.java
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/********************************************************************************
* $Id: JTidyPrintWriter.java 698 2004-10-05 11:29:52Z russgold $
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* $Id: MimeEncodedMessageBody.java 782 2007-07-03 01:13:34Z russgold $
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* $Id: HttpUnitOptions.java 941 2008-04-23 05:41:41Z wolfgang_fahl $
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/*/********************************************
**********
* $Id: ScriptingEngineFactory.java 778 2007-05-16 19:07:49Z russgold $*
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*/
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$Id: HttpUnitUtils.java 951 2008-05-02 10:11:40Z wolfgang_fahl $
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*/
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$Id: PutMethodWebRequest.java 783 2007-07-22 16:08:45Z russgold $
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* $Id: HTMLCollectionImpl.java 781 2007-06-17 17:31:49Z russgold $
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* $Id: PostMethodWebRequest.java 783 2007-07-22 16:08:45Z russgold $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-
jar/com/meterware/httpunit/FrameSelector.java
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* $Id: SubmitButton.java 951 2008-05-02 10:11:40Z wolfgang_fahl $
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/SubmitButton.java
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* $Id: InvocationContext.java 688 2004-09-29 17:15:27Z russgold $
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* $Id: WebImage.java 768 2006-10-09 03:16:26Z russgold $
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* $Id: AttrImpl.java 772 2006-12-01 16:54:18Z russgold $ *
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jar/com/meterware/httpunit/scripting/DocumentElement.java
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$Id: HTMLTextAreaElementImpl.java 840 2008-03-29 23:53:21Z wolfgang_fahl $
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* $Id: DomWindowProxy.java 908 2008-04-05 08:24:51Z wolfgang_fahl $*
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jar/com/meterware/httpunit/UncheckedParameterHolder.java
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******************************************************************************
********
* $Id: XMLUtils.java 604 2004-02-26 17:36:47Z russgold $ *
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/* $Id: RequestDispatcherImpl.java 482 2003-02-27 18:40:39Z russgold $ */
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*** $Id: ProcessingInstructionImpl.java 772 2006-12-01 16:54:18Z russgold $
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/ContentConcealer.java
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/*******************************************************************************/

* $Id: SelectionOption.java 297 2002-08-08 20:47:22Z russgold $*
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/* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/scripting/SelectionOption.java
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*****************************/

$Id: HeaderOnlyWebRequest.java 959 2008-05-13 09:28:41Z wolfgang_fahl $
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/*******************************************************************************/

*******************************************************************************/

$Id: FrameHolder.java 704 2004-10-17 20:48:11Z russgold $
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  jar/com/meterware/httpunit/FrameHolder.java
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            * $Id: WebForm.java 952 2008-05-02 16:01:23Z wolfgang_fahl $ *
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/WebForm.java
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* $Id: HeadMethodWebRequest.java 958 2008-05-13 09:25:29Z wolfgang_fahl $
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/***********************************************************************************

* $Id: DialogResponder.java 312 2002-08-21 19:06:27Z russgold $
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jar/com/meterware/httpunit/DialogResponder.java
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/*******************************************************************************
*******************************************************************************
* $Id: FilterUrlMap.java 604 2004-02-26 17:36:47Z russgold $
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1.7-sources-
jar/com/meterware/servletunit/FilterUrlMap.java
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/*$Id: NamespaceAwareNodeImpl.java 825 2008-03-27 19:54:12Z wolfgang_fahl$
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1.7-sources-
jar/com/meterware/httpunit/dom/NamespaceAwareNodeImpl.java
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/*$Id: SessionListenerDispatcher.java 678 2004-09-23 22:48:20Z russgold$
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jar/com/meterware/servletunit/SessionListenerDispatcher.java

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$Id: HTMLSelectElementImpl.java 902 2008-04-04 19:12:18Z wolfgang_fahl $

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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-jar/com/meterware/httpunit/dom/HTMLSelectElementImpl.java
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* $Id: ParameterHolder.java 783 2007-07-22 16:08:45Z russgold $  
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* $Id: HTMLTableElementImpl.java 908 2008-04-05 08:24:51Z wolfgang_fahl $  
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* $Id: HTMLTableCellElementImpl.java 908 2008-04-05 08:24:51Z wolfgang_fahl $
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* $Id: AuthenticationChallenge.java 908 2008-04-05 08:24:51Z wolfgang_fahl $ *
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* $Id: WebWindow.java 951 2008-05-02 10:11:40Z wolfgang_fahl $ *
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  jar/com/meterware/httpunit/AppletContextImpl.java
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* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-
  jar/com/meterware/pseudoserver/HttpUserAgentTest.java
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Found in path(s):
* /opt/cola/permits/1000521356_1646171472.06/0/httpunit-1-7-sources-
  jar/com/meterware/pseudoserver/HTMLBodyElementImpl.java
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$Id: HttpUserAgentTest.java 804 2007-12-30 09:30:39Z wolfgang_fahl $
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$Id: HTMLBodyElementImpl.java 839 2008-03-29 23:30:13Z wolfgang_fahl $
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jar/com/meterware/httpunit/dom/HTMLBodyElementImpl.java
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*$Id: DocumentAdapter.java 778 2007-05-16 19:07:49Z russgold $*

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jar/com/meterware/httpunit/dom/HTMLButtonElementImpl.java

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* $Id: HTMLTableRowElementImpl.java 908 2008-04-05 08:24:51Z wolfgang_fahl $
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/antlr/v4/runtime/atn/PlusLoopbackState.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXModifyReader.java
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  jar/org/jboss/jaxb/intros/IntroductionsAnnotationReader.java
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1.1833 swagger-annotations 1.5.14

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import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 *
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
String url() default "";
}

1.1834 activemq-client 5.13.3
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* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-
  jar/org/springframework/web/util/UriBuilder.java
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 */

/**
 * Return the web session for the current request. Always guaranteed to
 * return an instance either matching to the session id requested by the
 * client, or with a new session id either because the client did not
 * specify one or because the underlying session had expired. Use of this
 * method does not automatically create a session. See {@link WebSession}
 * for more details.
 */

Found in path(s):
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-
jar/org/springframework/web/server/ServerWebExchange.java
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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <http://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
# MIME type (lowercased)Extensions
# ============================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-insetez
# application/applefile
application/applixwareaw
# application/atf
# application/atfx
application/atom+xml
application/atomcat+xml
application/atomdeleted+xml
# application/atomicmail
application/atomsvc+xml
# application/atxml
# application/auth-policy+xml
# application/bacnet-xdd+zip
# application/batch-smtp
# application/beep+xml
# application/calendar+json
# application/calendar+xml
# application/call-completion
# application/cals-1840
# application/cbor
# application/ccmp+xml
application/ccxml+xml
# application/cdfx+xml
application/cdmi-capability+xml
application/cdmi-container+xml
application/cdmi-domain+xml
application/cdmi-object+xml
application/cdmi-queue+xml
# application/eshop
# application/example
application/exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
# application/fits
# application/font-sfnt
application/font-tdpfr
application/font-woff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml
application/gpx+xml
application/gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
application/hyperstudio
# application/ibe-key-request+xml
# application/ibe-pkg-reply+xml
# application/ibe-pp-data
# application/iges
# application/im-iscomposing+xml
# application/index
# application/index.cmd
# application/index.obj
# application/index.response
# application/index.vnd
application/inkml+xml
# application/iotp
application/ipfix
# application/ipp
# application/isup
# application/its+xml
application/java-archive
application/java-serialized-object
application/java-vm
application/javascript
# application/jose
# application/jose+json
# application/jrd+json
application/json
application/json-ld
# application/json-patch+json
# application/json-seq
application/json+xml
application/jsonml+json
# application/jwk+json
# application/poc-settings+xml
application/postscriptai eps ps
# application/ppsp-tracker+json
# application/problem+json
# application/problem+xml
# application/provenance+xml
# application/prs.alvestrand.titrax-sheet
application/prs.cwwcww
# application/prs.hpub+zip
# application/prs.nprend
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xmlapplication/pskcxml
# application/qsig
# application/raptorfec
# application/rdap+json
application/rdf+xmlapplication/rdf
application/reginfo+xmlapplication/rif
application/relax-ng-compact-syntaxapplication/rnc
# application/remote-printing
# application/reputon+json
application/resource-lists+xmlapplication/xmlrl
application/resource-lists-diff+xmlapplication/xmlrld
# application/rfc+xml
# application/riscos
# application/rlmi+xml
application/rls-services+xmlapplication/rlmrs
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application/rpki-manifestapplication/mft
application/rpki-roaa
# application/rpki-updown
application/rsd+xmlapplication/rsd
application/rss+xmlapplication/rss
application/rtfapplication/rtf
# application/rtptoolback
# application/rtx
# application/samlassertion+xml
# application/samlmetadata+xml
application/sbml+xmlapplication/sbml
# application/scaip+xml
# application/scim+json
application/scvp-cv-requestapplication/scq
application/scvp-cv-responsesapplication/scs
application/scvp-vp-requestapplication/spq
application/scvp-vp-responsesapplication/spp
application/sdpsdp
# application/se+xml
# application/sep-exi
# application/session-info
# application/set-payment
application/set-payment-initiationsetpay
# application/set-registration
application/set-registration-initiationsetreg
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# application/sgml-open-catalog
application/shf+xml
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
# application/slate
# application/smil
application/smil+xml
application/smil
# application/smtpe336m
# application/soap+fastinfoset
# application/soap+xml
application/sparql-query
application/sparql-results+xml
# application/spirs-event+xml
# application/sql
application/srgsgram
application/srgs+xml
application/sru+xml
application/ssdl+xml
application/ssml+xml
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# application/tamp-apex-update-confirm
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# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
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# audio/issac
# audio/l16
# audio/l20
# audio/l24
# audio/l8
# audio/lpc
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# model/vnd.valve.sourcecompiled-map
model/vnd.vtu
model/vrml wrl vrml
model/x3d+binary x3db x3dbz
# model/x3d+fastinfoset
model/x3d+vrml x3dv x3dvz
model/x3d+xml x3d x3dz
# model/x3d-vrml
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# multipart/digest
# multipart/encrypted
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# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
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# text/csv-schema
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# text/dns
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# text/encaprtp
# text/enriched
# text/example
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# text/javascript
# text/jcr-cnd
# text/markdown
# text/mizar
text/n3 n3
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# video/nv
video/oggov
# video/parityfec
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# video/raptorfec
# video/raw
# video/rtp-enc-aescm128
# video/rtploopback
# video/rtx
# video/smpte292m
# video/ulpfec
# video/vc1
# video/vnd.cctv
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video/vnd.dece.mobile uvvm
# video/vnd.dece.mp4
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# video/vnd.iptvforum.2parityfec-2005
# video/vnd.iptvforum.ttsave
# video/vnd.iptvforum.ttsmpeg2
# video/vnd.motorola.video
# video/vnd.motorola.videop
video/vnd.mpegurlmxu m4u
video/vnd.ms-playready.media.pyv
# video/vnd.nokia.interleaved-multimedia
# video/vnd.nokia.videooip
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# video/vnd.radgametools.smacker
# video/vnd.sealed.mpeg1
# video/vnd.sealed.mpeg4
# video/vnd.sealed.swf
# video/vnd.sealedmedia.softseal.mov
video/vnd.uvvu.mp4 uvu uvvu
video/vnd.vivo viv
# video/vp8
video/webmwebm
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video/x-flvflv
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x-conference/x-cooltalkice

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* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/web/method/annotation/RequestHeaderMethodArgumentResolver.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/web/filter/OncePerRequestFilter.java
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  jar/org/springframework/http/client/ClientHttpRequest.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-
  jar/org/springframework/http/client/AbstractClientHttpRequest.java
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* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-
  jar/org/springframework/web/context/support/XmlWebApplicationContext.java
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  jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-
  jar/org/springframework/http/server/ServerHttpAsyncRequestControl.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-
  jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-
  jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-
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* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/web/bind/annotation/Mapping.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/web/client/support/RestGatewaySupport.java

Found in path(s):
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/http/codec/support/DefaultServerCodecConfigurer.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/http/HttpHeaders.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/http/converter/json/MappingJackson2HttpMessageConverter.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/web/server/session/InMemoryWebSessionStore.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/web/cors/DefaultCorsProcessor.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/http/server/i18n/FixedLocaleContextResolver.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2-jar/org/springframework/http/server/reactive/DefaultServerHttpRequestBuilder.java

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* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2.jar/org/springframework/http/codec/multipart/FilePart.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2.jar/org/springframework/web/util/OpaqueUriComponents.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2.jar/org/springframework/http/client/reactive/AbstractClientHttpRequest.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2.jar/org/springframework/web/bind/annotation/ModelAttributeMethodProcessor.java
* /opt/cola/permits/1136594770_1613806566.67/0/spring-web-5-0-8-release-sources-2.jar/org/springframework/http/HttpRequest.java

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resize. properties
* / opt/ cola/ permits/ 1001477447_ 1646171664.97/ 0/ asm-5-0-1-sources-jar/ org/ objectweb/ asm/ optimizer/ shrink-
signatures. properties
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  jar/org/objectweb/asm/commons/package.html
* /opt/cola/permits/1001477447_1646171664.97/0/asm-5-0-1-sources-
  jar/org/objectweb/asm/util/package.html
* /opt/cola/permits/1001477447_1646171664.97/0/asm-5-0-1-sources-
  jar/org/objectweb/asm/attrs/package.html
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*/
/**
 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 * 
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see {@link Opcodes}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see {@link Type}).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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* /opt/cola/permits/1001477447_1646171664.97/0/asm-5-0-1-sources-jar/org/objectweb/asm/XML/SAXAnnotationAdapter.java
* /opt/cola/permits/1001477447_1646171664.97/0/asm-5-0-1-sources-jar/org/objectweb/asm/XML/SAXFieldAdapter.java
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 */
/**
 * Constructs a new [Textifier](Textifier). Subclasses must not use this
 * constructor, instead, they must use the [Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
```

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*/

/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *
   * @param typeRef
   *           a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *           the path to the annotated type argument, wildcard bound, array
   *           element type, or static inner type within 'typeRef'. May be
   *           <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *           the fist instructions corresponding to the continuous ranges
   *           that make the scope of this local variable (inclusive).
   * @param end
   *           the last instructions corresponding to the continuous ranges
   *           that make the scope of this local variable (exclusive). This
   *           array must have the same size as the 'start' array.
   * @param index
   *           the local variable's index in each range. This array must have
   *           the same size as the 'start' array.
   * @param desc
   *           the class descriptor of the annotation class.
   */

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*/
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this</i> constructor.<i/>
 * Instead, they must use the
 * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 *            the <code>MethodVisitor</code> to send the resulting inlined
 *            method code to (use <code>null</code> for none).
 * @param access
 *            the method's access flags (see {@link Opcodes}). This
 *            parameter also indicates if the method is synthetic and/or
 *            deprecated.
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see {@link Type}).
 * @param signature
 *            the method's signature. May be <tt>null</tt>.
 * @param exceptions
 *            the internal names of the method's exception classes (see
 *            { @link Type#getInternalName() getInternalName() }). May be
 *            <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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* /opt/cola/permits/1001477447_1646171664.97/0/asm-5-0-1-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1001477447_1646171664.97/0/asm-5-0-1-sources-jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1001477447_1646171664.97/0/asm-5-0-1-sources-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1001477447_1646171664.97/0/asm-5-0-1-sources-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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* /opt/cola/permits/1001477447_1646171664.97/0/asm-5-0-1-sources-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1001477447_1646171664.97/0/asm-5-0-1-sources-
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```java
/**
 * Constructs a new `ClassNode`. <i>Subclasses must not use this constructor</i>. Instead, they must use the `ClassNode(int)`
 * version.
 *
 * @throws IllegalStateException
 * @throws IllegalArgumentException
 *
 */
```
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 */

/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see {@link Opcodes}).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see {@link Type Type}).
 * @param mv
 */
the method visitor to which this adapter delegates calls. May be <tt>null</tt>.
@throws IllegalStateException
    If a subclass calls this constructor.
*/

Found in path(s):
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonReader.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-
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  jar/com/google/gson/internal/SGson$Types.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonSyntaxException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/Streams.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/LongSerializationPolicy.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonStreamParser.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldAttributes.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonParser.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/JsonAdapter.java
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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include
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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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1.1841 wildfly-elytron 1.11.2.Final

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1.1847 jackson 2.10.5

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- web-app_3_0.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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- web-app_3_1.xsd
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agere_sta_fw.bin -- 9.48 Hermes I
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Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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Firmware provided as part of an XC5000 Linux developers kit by Brian
Mathews <b.mathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>
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/*
* Written by Wilco Dijkstra, 1996. The following email exchange establishes the
Hi Kevin,

Thanks for asking. Those routines are public domain (originally posted to comp.sys.arm a long time ago), so you can use them freely for any purpose.

Cheers,

Wilco

----- Original Message ----- 
From: "Kevin Ma" <kma@google.com>
To: <Wilco.Dijkstra@ntlworld.com>
Sent: Thursday, June 23, 2011 11:44 PM
Subject: Fwd: sqrt routine

Hi Wilco,

I saw your sqrt routine from several web sites, including http://www.finesse.demon.co.uk/steven/sqrt.html.

Just wonder if there's any copyright information with your Successive approximation routines, or if I can freely use it for any purpose.

Thanks.

Kevin

/*

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/*
 * SpanDSP - a series of DSP components for telephony
 * 
 * g711.h - In line A-law and u-law conversion routines
 * 
 * Written by Steve Underwood <steveu@coppice.org>
 * 
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Files:
modules/audio_coding/codecs/g711/main/source/g711.c
modules/audio_coding/codecs/g711/main/source/g711.h

/modules/audio_coding/codecs/g722/main/source/g722_decode.c
License:
/*
* SpanDSP - a series of DSP components for telephony
*
* g722_decode.c - The ITU G.722 codec, decode part.
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* Based in part on a single channel G.722 codec which is:
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modules/audio_device/mac/portaudio/pa_ringbuffer.h

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/*
 * $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
 * Portable Audio I/O Library
 * Memory barrier utilities
 *
 * Author: Bjorn Roche, XO Audio, LLC
 *
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 * For more information see: http://www.portaudio.com
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/*
 * $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
 * Portable Audio I/O Library
 * Ring Buffer utility.
 *
 * Author: Phil Burk, http://www.softsynth.com
 * modified for SMP safety on Mac OS X by Bjorn Roche
 * modified for SMP safety on Linux by Leland Lucius
 * also, allowed for const where possible
 * modified for multiple-byte-sized data elements by Sven Fischer
 *
 * Note that this is safe only for a single-thread reader and a
 * single-thread writer.
 *
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* /opt/ws_local/PERMITS_SQL/1074378306_1597130251.36/0/slf4j-log4j12-1-5-8-sources-jar/org/slf4j/impl/Log4jLoggerFactory.java

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 * Container for request parameters to <code> <a>UpgradeElasticsearchDomain</a> </code> operation.
 * @return A Java Future containing the result of the UpgradeElasticsearchDomain operation returned by the
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 * The CompletableFuture returned by this method can be completed exceptionally with the following
* exceptions.
 * <ul>
 * <li>BaseException An error occurred while processing the request.</li>
 * <li>ResourceNotFoundException An exception for accessing or deleting a resource that does not exist.
 * Gives http status code of 400.</li>
 * <li>ResourceAlreadyExistsException An exception for creating a resource that already exists. Gives http
 * status code of 400.</li>
 * <li>DisabledOperationException An error occurred because the client wanted to access a not supported
 * operation. Gives http status code of 409.</li>
 * <li>ValidationException An exception for missing / invalid input fields. Gives http status code of 400.</li>
 * <li>InternalException The request processing has failed because of an unknown error, exception or failure
 * (the failure is internal to the service) . Gives http status code of 500.</li>
 * <li>SdkException Base class for all exceptions that can be thrown by the SDK (both service and client).
 * Can be used for catch all scenarios.</li>
 * <li>SdkClientException If any client side error occurs such as an IO related failure, failure to get
 * credentials, etc.</li>
 * <li>ElasticsearchException Base class for all service exceptions. Unknown exceptions will be thrown as an
 * instance of this type.</li>
 * </ul>
 * @sample ElasticsearchAsyncClient.UpgradeElasticsearchDomain
 */

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~ permissions and limitations under the License.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1-jar/META-INF/maven/software.amazon.awssdk/elasticsearch/pom.xml

No license file was found, but licenses were detected in source scan.

{
  "customizationConfig": {
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    "blacklistedSimpleMethods": [],
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"defaultEndpointWithoutHttpProtocol" : null,
"defaultRegion" : null,
"descriptiveServiceName" : "Amazon Elasticsearch Service",
"documentation" : "<fullname>Amazon Elasticsearch Configuration Service</fullname> <p>Use the Amazon Elasticsearch configuration API to create, configure, and manage Elasticsearch domains.</p> <p>The endpoint for configuration service requests is region-specific: es.<i>region</i>.amazonaws.com. For example, es.us-east-1.amazonaws.com. For a current list of supported regions and endpoints, see <a href="http://docs.aws.amazon.com/general/latest/gr/rande.html#elasticsearch-service-regions" target="_blank">Regions and Endpoints</a>.</p>",
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"uid" : "es-2015-01-01",
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"operations" : {
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"documentation" : "<p>Attaches tags to an existing Elasticsearch domain. Tags are a set of case-sensitive key value pairs. An Elasticsearch domain may have up to 10 tags. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-awsresorctagging\" target=_blank"> Tagging Amazon Elasticsearch Service Domains for more information.</a></p>",
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    "documentation" : "<p>The result of a <code>DescribeElasticsearchDomains</code> request. Contains the status of the specified domains or all domains owned by the account.</p>",
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  "documentation" : "<p>Lists available reserved Elasticsearch instance offerings.</p>",
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  "authenticated" : true,
  "deprecated" : false,
  "documentation" : "<p>Returns a list of upgrade compatible Elasticsearch versions. You can optionally pass a <code>DomainName</code> to get all upgrade compatible Elasticsearch versions for that specific
domain.

"exceptionName" : "BaseException",
"documentation" : "<p>An error occurred while processing the request.</p>",
"httpStatusCode" : null
]

"exceptionName" : "ResourceNotFoundException",
"documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
"httpStatusCode" : 409
]

"exceptionName" : "DisabledOperationException",
"documentation" : "<p>An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.</p>",
"httpStatusCode" : 409
]

"exceptionName" : "ValidationException",
"documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode" : 400
]

"exceptionName" : "InternalException",
"documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode" : 500
]

"hasBlobMemberAsPayload" : false,
"input" : {
  "variableDeclarationType" : "GetCompatibleElasticsearchVersionsRequest",
  "variableName" : "getCompatibleElasticsearchVersionsRequest",
  "variableType" : "GetCompatibleElasticsearchVersionsRequest",
  "documentation" : "<p>Container for request parameters to <code><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>",
  "simpleType" : "GetCompatibleElasticsearchVersionsRequest",
  "variableSetterType" : "GetCompatibleElasticsearchVersionsRequest"
},
"methodName" : "getCompatibleElasticsearchVersions",
"operationName" : "GetCompatibleElasticsearchVersions",
"paginated" : false,
"returnType" : {
  "returnType" : "GetCompatibleElasticsearchVersionsResponse",
  "documentation" : "<p>Container for response returned by <code><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>"
},
"syncReturnType" : "GetCompatibleElasticsearchVersionsResponse",

"GetUpgradeHistory" : {
  "authenticated" : true,
"deprecated" : false,
"documentation" : "<p>Retrieves the complete history of the last 10 upgrades that were performed on the domain.</p>",
"endpointTrait" : null,
"exceptions" : [ {
   "exceptionName" : "BaseException",
   "documentation" : "<p>An error occurred while processing the request.</p>",
   "httpStatusCode" : null
 }, {
   "exceptionName" : "ResourceNotFoundException",
   "documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
   "httpStatusCode" : 409
 }, {
   "exceptionName" : "DisabledOperationException",
   "documentation" : "<p>An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.</p>",
   "httpStatusCode" : 409
 }, {
   "exceptionName" : "ValidationException",
   "documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
   "httpStatusCode" : 400
 }, {
   "exceptionName" : "InternalException",
   "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
   "httpStatusCode" : 500
 }],
"hasBlobMemberAsPayload" : false,
"input" : {
   "variableDeclarationType" : "GetUpgradeHistoryRequest",
   "variableName" : "getUpgradeHistoryRequest",
   "variableType" : "GetUpgradeHistoryRequest",
   "documentation" : "<p>Container for request parameters to <code>GetUpgradeHistory</code> operation.</p>",
   "simpleType" : "GetUpgradeHistoryRequest",
   "variableSetterType" : "GetUpgradeHistoryRequest"
},
"methodName" : "getUpgradeHistory",
"operationName" : "GetUpgradeHistory",
"paginated" : true,
"returnType" : {
   "returnType" : "GetUpgradeHistoryResponse",
   "documentation" : "<p>Container for response returned by <code>GetUpgradeHistory</code> operation.</p>",
   "syncReturnType" : "GetUpgradeHistoryResponse"
},
"GetUpgradeStatus" : {
  "authenticated" : true,
  "deprecated" : false,
  "documentation" : "<p>Retrieves the latest status of the last upgrade or upgrade eligibility check that was performed on the domain.</p>",
  "endpointTrait" : null,
  "exceptions" : [ {
    "exceptionName" : "BaseException",
    "documentation" : "<p>An error occurred while processing the request.</p>",
    "httpStatusCode" : null
  }, {
    "exceptionName" : "ResourceNotFoundException",
    "documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
    "httpStatusCode" : 409
  }, {
    "exceptionName" : "DisabledOperationException",
    "documentation" : "<p>An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.</p>",
    "httpStatusCode" : 409
  }, {
    "exceptionName" : "ValidationException",
    "documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
    "httpStatusCode" : 400
  }, {
    "exceptionName" : "InternalException",
    "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
    "httpStatusCode" : 500
  } ],
  "hasBlobMemberAsPayload" : false,
  "input" : {
    "variableDeclarationType" : "GetUpgradeStatusRequest",
    "variableName" : "getUpgradeStatusRequest",
    "variableType" : "GetUpgradeStatusRequest",
    "documentation" : "<p>Container for request parameters to <code>&lt;a&gt;GetUpgradeStatus&lt;/a&gt;</code> operation.</p>",
    "simpleType" : "GetUpgradeStatusRequest",
    "variableSetterType" : "GetUpgradeStatusRequest"
  },
  "methodName" : "getUpgradeStatus",
  "operationName" : "GetUpgradeStatus",
  "paginated" : false,
  "returnType" : {
    "returnType" : "GetUpgradeStatusResponse",
    "documentation" : "<p>Container for response returned by <code>&lt;a&gt;GetUpgradeStatus&lt;/a&gt;</code> operation.</p>"
  }
}
"syncReturnType" : "GetUpgradeStatusResponse"
},
"ListDomainNames" : {
  "authenticated" : true,
  "deprecated" : false,
  "documentation" : "<p>Returns the name of all Elasticsearch domains owned by the current user's account.</p>",
  "endpointTrait" : null,
  "exceptions" : [ {
    "exceptionName" : "BaseException",
    "documentation" : "<p>An error occurred while processing the request.</p>",
    "httpStatusCode" : null
  }, {
    "exceptionName" : "ValidationException",
    "documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
    "httpStatusCode" : 400
  } ],
  "hasBlobMemberAsPayload" : false,
  "input" : {
    "variableDeclarationType" : "ListDomainNamesRequest",
    "variableName" : "listDomainNamesRequest",
    "variableType" : "ListDomainNamesRequest",
    "documentation" : null,
    "simpleType" : "ListDomainNamesRequest",
    "variableSetterType" : "ListDomainNamesRequest"
  },
  "methodName" : "listDomainNames",
  "operationName" : "ListDomainNames",
  "paginated" : false,
  "returnType" : { "returnType" : "ListDomainNamesResponse",
                  "documentation" : "<p>The result of a <code>ListDomainNames</code> operation. Contains the names of all Elasticsearch domains owned by this account.</p>"
  },
  "syncReturnType" : "ListDomainNamesResponse"
},
"ListElasticsearchInstanceTypes" : {
  "authenticated" : true,
  "deprecated" : false,
  "documentation" : "<p>List all Elasticsearch instance types that are supported for given ElasticsearchVersion</p>",
  "endpointTrait" : null,
  "exceptions" : [ {
    "exceptionName" : "BaseException",
    "documentation" : "<p>An error occurred while processing the request.</p>",
    "httpStatusCode" : null
  }, {
    "exceptionName" : "InternalException",
    "httpStatusCode" : null
  } ],
  "hasBlobMemberAsPayload" : false,
  "input" : {
    "variableDeclarationType" : "ListElasticsearchInstanceTypesRequest",
    "variableName" : "listElasticsearchInstanceTypesRequest",
    "variableType" : "ListElasticsearchInstanceTypesRequest",
    "documentation" : null,
    "simpleType" : "ListElasticsearchInstanceTypesRequest",
    "variableSetterType" : "ListElasticsearchInstanceTypesRequest"
  },
  "methodName" : "listElasticsearchInstanceTypes",
  "operationName" : "ListElasticsearchInstanceTypes",
  "paginated" : false,
  "returnType" : { "returnType" : "ListElasticsearchInstanceTypesResponse",
                   "documentation" : "<p>The result of a <code>ListElasticsearchInstanceTypes</code> operation. Contains the list of all Elasticsearch instance types supported for given ElasticsearchVersion</p>"
  },
  "syncReturnType" : "ListElasticsearchInstanceTypesResponse"
"documentation" : "The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500."",
"httpStatusCode" : 500
},
{
"exceptionName" : "ResourceNotFoundException",
"documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.",
"httpStatusCode" : 409
},
{
"exceptionName" : "ValidationException",
"documentation" : "An exception for missing / invalid input fields. Gives http status code of 400.",
"httpStatusCode" : 400
}
],
"hasBlobMemberAsPayload" : false,
"input" : {
"variableDeclarationType" : "ListElasticsearchInstanceTypesRequest",
"variableName" : "listElasticsearchInstanceTypesRequest",
"variableType" : "ListElasticsearchInstanceTypesRequest",
"documentation" : "Container for the parameters to the <code><a>ListElasticsearchInstanceTypes</a></code> operation.
"simpleType" : "ListElasticsearchInstanceTypesRequest",
"variableSetterType" : "ListElasticsearchInstanceTypesRequest"
},
"methodName" : "listElasticsearchInstanceTypes",
"operationName" : "ListElasticsearchInstanceTypes",
"paginated" : true,
"returnType" : {
"returnType" : "ListElasticsearchInstanceTypesResponse",
"documentation" : "Container for the parameters returned by <code><a>ListElasticsearchInstanceTypes</a></code> operation.
"syncReturnType" : "ListElasticsearchInstanceTypesResponse"
},
"ListElasticsearchVersions" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "List all supported Elasticsearch versions",
"endpointTrait" : null,
"exceptions" : [ {
"exceptionName" : "BaseException",
"documentation" : "An error occurred while processing the request.",
"httpStatusCode" : null
},
{
"exceptionName" : "InternalException",
"documentation" : "The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.",
"httpStatusCode" : 500
}]}
"exceptionName" : "ResourceNotFoundException",
"documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
"httpStatusCode" : 409
},

"exceptionName" : "ValidationException",
"documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode" : 400
}]

"hasBlobMemberAsPayload" : false,
"input" : {
"variableDeclarationType" : "ListElasticsearchVersionsRequest",
"variableName" : "listElasticsearchVersionsRequest",
"variableType" : "ListElasticsearchVersionsRequest",
"documentation" : "Container for the parameters to the <code><a>ListElasticsearchVersions</a></code> operation. Use <code><a>MaxResults</a></code> to control the maximum number of results to retrieve in a single call. Use <code><a>NextToken</a></code> to retrieve more results. If the received response does not contain a NextToken, then there are no more results to retrieve.",
"simpleType" : "ListElasticsearchVersionsRequest",
"variableSetterType" : "ListElasticsearchVersionsRequest"
},

"methodName" : "listElasticsearchVersions",
"operationName" : "ListElasticsearchVersions",
"paginated" : true,
"returnType" : {
"returnType" : "ListElasticsearchVersionsResponse",
"documentation" : "Container for the parameters for response received from <code><a>ListElasticsearchVersions</a></code> operation.
"syncReturnType" : "ListElasticsearchVersionsResponse"
},

"ListTags" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "Returns all tags for the given Elasticsearch domain.
"endpointTrait" : null,
"exceptions" : [{
"exceptionName" : "BaseException",
"documentation" : "An error occurred while processing the request.
"httpStatusCode" : null
},

"exceptionName" : "ResourceNotFoundException",
"documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.
"httpStatusCode" : 409
},

"exceptionName" : "ValidationException",
"documentation" : "An exception for missing / invalid input fields. Gives http status code of 400."}
"httpStatusCode" : 400
}, {
   "exceptionName" : "InternalException",
   "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the
failure is internal to the service). Gives http status code of 500.</p>",
   "httpStatusCode" : 500
}]
"hasBlobMemberAsPayload" : false,
"input" : {
   "variableDeclarationType" : "ListTagsRequest",
   "variableName" : "listTagsRequest",
   "variableType" : "ListTagsRequest",
   "documentation" : "Container for the parameters to the <code><a>ListTags</a></code> operation. Specify
the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view are
attached.</p>",
   "simpleType" : "ListTagsRequest",
   "variableSetterType" : "ListTagsRequest"
},
"methodName" : "listTags",
"operationName" : "ListTags",
"paginated" : false,
"returnType" : {
   "returnType" : "ListTagsResponse",
   "documentation" : "The result of a <code>ListTags</code> operation. Contains tags for all requested
Elasticsearch domains.</p>"
},
"syncReturnType" : "ListTagsResponse"
}.
"PurchaseReservedElasticsearchInstanceOffering" : {
   "authenticated" : true,
   "deprecated" : false,
   "documentation" : "Allows you to purchase reserved Elasticsearch instances.
<blockquote>
   "<p>Allows you to purchase reserved Elasticsearch instances.</p>"
</blockquote>
"endpointTrait" : null,
"exceptions" : [{
   "exceptionName" : "ResourceNotFoundException",
   "documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status
code of 400.</p>",
   "httpStatusCode" : 409
}, {
   "exceptionName" : "ResourceAlreadyExistsException",
   "documentation" : "An exception for creating a resource that already exists. Gives http status code of
400.</p>",
   "httpStatusCode" : 409
}, {
   "exceptionName" : "LimitExceededExceeption",
   "documentation" : "An exception for trying to create more than allowed resources or sub-resources. Gives
http status code of 409.</p>",
   "httpStatusCode" : 409
}]
}
"exceptionName" : "DisabledOperationException",
"documentation" : "<p>An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.</p>",
"httpStatusCode" : 409
}, {
"exceptionName" : "ValidationException",
"documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode" : 400
}, {
"exceptionName" : "InternalException",
"documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode" : 500
] },
"hasBlobMemberAsPayload" : false,
"input" : {
"variableDeclarationType" : "PurchaseReservedElasticsearchInstanceOfferingRequest",
"variableName" : "purchaseReservedElasticsearchInstanceOfferingRequest",
"variableType" : "PurchaseReservedElasticsearchInstanceOfferingRequest",
"documentation" : "<p>Container for parameters to <code>PurchaseReservedElasticsearchInstanceOffering</code> operation.</p>",
"simpleType" : "PurchaseReservedElasticsearchInstanceOfferingRequest",
"variableSetterType" : "PurchaseReservedElasticsearchInstanceOfferingRequest"
},
"methodName" : "purchaseReservedElasticsearchInstanceOffering",
"operationName" : "PurchaseReservedElasticsearchInstanceOffering",
"paginated" : false,
"returnType" : {
"returnType" : "PurchaseReservedElasticsearchInstanceOfferingResponse",
"documentation" : "<p>Represents the output of a <code>PurchaseReservedElasticsearchInstanceOffering</code> operation.</p>"
},
"syncReturnType" : "PurchaseReservedElasticsearchInstanceOfferingResponse"
},
"RemoveTags" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "<p>Removes the specified set of tags from the specified Elasticsearch domain.</p>",
"endpointTrait" : null,
"exceptions" : [
{
"exceptionName" : "BaseException",
"documentation" : "<p>An error occurred while processing the request.</p>",
"httpStatusCode" : null
},
{
"exceptionName" : "ValidationException",
"documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
"httpStatusCode" : 400
}]}
"exceptionName" : "InternalException",
"documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode" : 500
}
],
"hasBlobMemberAsPayload" : false,
"input" : {
"variableDeclarationType" : "RemoveTagsRequest",
"variableName" : "removeTagsRequest",
"variableType" : "RemoveTagsRequest",
"documentation" : "<p>Container for the parameters to the <code>RemoveTags</code> operation. Specify the <code>ARN</code> for the Elasticsearch domain from which you want to remove the specified <code>TagKey</code>.</p>",
"simpleType" : "RemoveTagsRequest",
"variableSetterType" : "RemoveTagsRequest"
},
"methodName" : "removeTags",
"operationName" : "RemoveTags",
"paginated" : false,
"returnType" : {
"returnType" : "RemoveTagsResponse",
"documentation" : null
},
"syncReturnType" : "RemoveTagsResponse"
},
"StartElasticsearchServiceSoftwareUpdate" : {
"authenticated" : true,
"deprecated" : false,
"documentation" : "<p>Schedules a service software update for an Amazon ES domain.</p>",
"endpointTrait" : null,
"exceptions" : [
{ "exceptionName" : "BaseException",
"documentation" : "<p>An error occurred while processing the request.</p>",
"httpStatusCode" : null
},
{ "exceptionName" : "InternalException",
"documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"httpStatusCode" : 500
},
{ "exceptionName" : "ResourceNotFoundException",
"documentation" : "<p>An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.</p>",
"httpStatusCode" : 409
},
{ "exceptionName" : "ValidationException",
"documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>"}
"httpStatusCode" : 400
} ],
"hasBlobMemberAsPayload" : false,
"input" : {
  "variableDeclarationType" : "StartElasticsearchServiceSoftwareUpdateRequest",
  "variableName" : "startElasticsearchServiceSoftwareUpdateRequest",
  "variableType" : "StartElasticsearchServiceSoftwareUpdateRequest",
  "documentation" : "<p>Container for the parameters to the
  <code><a>StartElasticsearchServiceSoftwareUpdate</a></code> operation. Specifies the name of the Elasticsearch
domain that you wish to schedule a service software update on.</p>",
  "simpleType" : "StartElasticsearchServiceSoftwareUpdateRequest",
  "variableSetterType" : "StartElasticsearchServiceSoftwareUpdateRequest"
},
  "methodName" : "startElasticsearchServiceSoftwareUpdate",
  "operationName" : "StartElasticsearchServiceSoftwareUpdate",
  "paginated" : false,
  "returnType" : {
    "returnType" : "StartElasticsearchServiceSoftwareUpdateResponse",
    "documentation" : "<p>The result of a <code>StartElasticsearchServiceSoftwareUpdate</code> operation.
    Contains the status of the update.</p>"
  },
  "syncReturnType" : "StartElasticsearchServiceSoftwareUpdateResponse"
},
"UpdateElasticsearchDomainConfig" : {
  "authenticated" : true,
  "deprecated" : false,
  "documentation" : "<p>Modifies the cluster configuration of the specified Elasticsearch domain, setting as
  setting the instance type and the number of instances.</p>",
  "endpointTrait" : null,
  "exceptions" : [
    {"exceptionName" : "BaseException",
      "documentation" : "<p>An error occurred while processing the request.</p>"},
    {"httpStatusCode" : null}
  ],
  {"exceptionName" : "InternalException",
   "documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the
   failure is internal to the service). Gives http status code of 500.</p>"},
  {"httpStatusCode" : 500}
],
{ "exceptionName" : "InvalidTypeException",
 "documentation" : "<p>An exception for trying to create or access sub-resource that is either invalid or not
   supported. Gives http status code of 409.</p>"},
{ "httpStatusCode" : 409}
],
{ "exceptionName" : "LimitExceededException",
 "documentation" : "<p>An exception for trying to create more than allowed resources or sub-resources. Gives
   http status code of 409.</p>"},
{ "httpStatusCode" : 409}
400.

```
"httpStatusCode" : 409
",

"exceptionName" : "DisabledOperationException",
"documentation" : "An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.",
"httpStatusCode" : 409
",

"exceptionName" : "ValidationException",
"documentation" : "An exception for missing / invalid input fields. Gives http status code of 400.",
"httpStatusCode" : 400
",

"exceptionName" : "InternalException",
"documentation" : "The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.",
"httpStatusCode" : 500
```

"deprecated" : false,
"documentation" : "<p>The configured access rules for the domain's document and search endpoints, and the
current status of those rules.</p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ { 
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "PolicyDocument",
"defaultConsumerFluentSetterDocumentation" : "<p>The access policy configured for the Elasticsearch
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via {@link String.Builder#builder()}. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link String.Builder#build()]. Returns a reference to this object so that method calls can be chained together.

@see #options(String)",
"deprecated" : false,
"documentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be
@see #options(String)",
"fluentSetterMethodName" : "options"

"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Options",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Options",
    "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "Options",


"setterMethodName" : "setOptions",

"setterModel" : {
    "variableDeclarationType" : "String"}
"variableName" : "options",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "options",
"variableType" : "String",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. 

This is a convenience that creates an instance of the [@link OptionStatus.Builder] avoiding the need to create one manually via [@link OptionStatus#builder()].

When the [@link Consumer] completes, [@link OptionStatus.Builder#build()] is called immediately and its result is passed to [@link OptionStatus#status(OptionStatus)].

@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. 

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. 

@see #status(OptionStatus)\n@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. 

@see #status(OptionStatus)\n@return The status of the access"
policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

```json
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

```
The status of the access policy for the Elasticsearch domain. See \[\text{Configuring Access Policies}\] for more information.

This is a convenience that creates an instance of the \{ @link String\_builder() \} avoiding the need to create one manually via \{ @link String\_builder() \}. When the \{ @link Consumer \} completes, \{ @link String\_builder() \} is called immediately and its result is passed to \{ @link #options(String) \}. The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See \[\text{Configuring Access Policies}\] for more information.

The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See \[\text{Configuring Access Policies}\] for more information.

The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See \[\text{Configuring Access Policies}\] for more information.

The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See \[\text{Configuring Access Policies}\] for more information.

The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See \[\text{Configuring Access Policies}\] for more information.
createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a> for more information.
",
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "Options",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "Options",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
    "map" : false,
    "mapModel" : null,
    "marshallingType" : "STRING",
    "name" : "Options",
",
    "setterMethodName" : "setOptions",
    "setterModel" : {
        "variableDeclarationType" : "String",
        "variableName" : "options",
        "variableType" : "String",
        "documentation" : null,
        "simpleType" : "String",
        "variableSetterType" : "String"
    },
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "options",
  "variableType": "String",
  "documentation": "The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See [Configuring Access Policies](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies) for more information.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"Status": {
  "beanStyleGetterMethodName": "getStatus",
  "beanStyleSetterMethodName": "setStatus",
  "c2jName": "Status",
  "c2jShape": "OptionStatus",
  "defaultConsumerFluentSetterDocumentation": "The status of the access policy for the Elasticsearch domain. See [OptionStatus](#) for the status information that's included. 

This is a convenience that creates an instance of the [OptionStatus.Builder](#) avoiding the need to create one manually via [OptionStatus.Builder()](#). When the [OptionStatus.Builder#build()](#) is called immediately and its result is passed to [status(OptionStatus)](#) a consumer that will call methods on [OptionStatus.Builder](#) Returns a reference to this object so that method calls can be chained together.

```
@see #status(OptionStatus)
```

  "deprecated": false,
  "documentation": "The status of the access policy for the Elasticsearch domain. See [OptionStatus](#) for the status information that's included. 

```
enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "status",
"fluentSetterDocumentation": "The status of the access policy for the Elasticsearch domain. See [OptionStatus](#) for the status information that's included. 

```
@see #status(OptionStatus)
```

  "returnType": "OptionStatus",
  "documentation": null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Status",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Status",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",
"setterMethodName" : "setStatus",
"setterModel" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : null,
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : "<p>The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>",
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
}
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getOptions",
  "beanStyleSetterMethodName" : "setOptions",
  "c2jName" : "Options",
  "c2jShape" : "PolicyDocument",
  "defaultConsumerFluentSetterDocumentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a>for more information.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String.Builder#build()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #options(String)].\n\n@param options a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(String)"
  
  "deprecated" : false,
  "documentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a>for more information.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String.Builder#build()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #options(String)].\n\n@param options a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(String)"
  
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "options",
  "fluentSetterMethodName" : "options",
  "fluentSetterDocumentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a>for more information.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String.Builder#build()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #options(String)].\n\n@param options a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(String)"
  
  "getDocumentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-access-policies" target="_blank"> Configuring Access Policies</a>for more information.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String.Builder#build()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #options(String)].\n\n@param options a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(String)"
  
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  }
}
The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See Configuring Access Policies for more information. The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See Configuring Access Policies for more information.

```json

"setterDocumentation" : "<p>The access policy configured for the Elasticsearch domain. Access policies may be resource-based, IP-based, or IAM-based. See Configuring Access Policies for more information.</p>

"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "options",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "options",
```
"variableType" : "String",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.\n\nThis is a convenience that creates an instance of the {<link OptionStatus.Builder}> avoiding the need to create one manually via {<link OptionStatus#builder()}\n\nWhen the {<link Consumer}> completes, {<link OptionStatus.Builder#build()>} is called immediately and its result is passed to {<link status(OptionStatus)}>\n\n@param status a consumer that will call methods on {<link OptionStatus.Builder>\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.\n\nenumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.\n\nWhen the {<link Consumer>} completes, {<link OptionStatus.Builder#build()>} is called immediately and its result is passed to {<link status(OptionStatus)}>\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #status(OptionStatus)",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.\n\ngetterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Status",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Status",
"uri": false,
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
"setterDocumentation": "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.\n\n@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.\n\n@returns status\n\n@var status\n\n@param status\n\n@returns status",
"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.\n\n@param status The status of the access policy for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.\n\n@returns status\n\n@param status\n\n@returns status",
"simpleType": "OptionStatus",
"variableSetterType": "OptionStatus"
},
"xmlNameSpaceUri": null
},
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "Options", "Status" ],
"shapeName": "AccessPoliciesStatus"
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "AccessPoliciesStatus",
  "variableName": "accessPoliciesStatus",
  "variableType": "AccessPoliciesStatus",
  "documentation": null,
  "simpleType": "AccessPoliciesStatus",
  "variableSetterType": "AccessPoliciesStatus"
},
"wrapper": false
},
"AddTagsRequest": {
  "c2jName": "AddTagsRequest",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "<p>Container for the parameters to the <code>AddTags</code> operation. Specify the tags that you want to attach to the Elasticsearch domain.</p>",
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": {
    "action": "AddTags",
    "locationName": null,
    "requestUri": "/2015-01-01/tags",
    "target": null,
    "verb": "POST",
    "xmlNameSpaceUri": null
  },
  "members": [
    "beanStyleGetterMethodName": "getArn",
    "beanStyleSetterMethodName": "setArn"
"c2jName" : "ARN",
"c2jShape" : "ARN",
"defaultConsumerFluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link arn(String)].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link arn(String)].

@param arn a consumer that will call methods on [@link String.Builder]
@returns a reference to this object so that method calls can be chained together.

@see #arn(String)
"deprecated" : false,
"documentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
@param arn Specify the <code>ARN</code> for which you want to add the tags.
@returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "arn",
"getterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
@returns Specify the <code>ARN</code> for which you want to add the tags.
",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ARN",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ARN",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ARN",
"setterDocumentation": "<p>Specify the <code>ARN</code> for which you want to add the tags. 
@param arn Specify the <code>ARN</code> for which you want to add the tags.
"setterMethodName": "setArn",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "arn",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "arn",
"variableType": "String",
"documentation": "<p>Specify the <code>ARN</code> for which you want to add the tags. 
</p>
@param arn Specify the <code>ARN</code> for which you want to add the tags.
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"beanStyleGetterMethodName": "getTagList",
"beanStyleSetterMethodName": "setTagList",
"c2jName": "TagList",
"c2jShape": "TagList",
"defaultValueSetterDocumentation": "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. 
This is a convenience that creates an instance of the { @link List<Tag>.Builder} avoiding the need to create one manually via { @link List<Tag>.Builder\#builder()}.
When the { @link Consumer} completes, { @link List<Tag>.Builder\#build()} is called immediately and its result is passed to { @link List\#tagList(List<Tag>)}.
@return Returns a reference to this object so that method calls can be chained together.
@see #tagList(List<Tag>)
"deprecated": false,
"documentation": "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. 
</p>
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "tagList",
"fluentSetterMethodName": "tagList",
"fluentSetterDocumentation": "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. 
</p>
@<param> tagList a consumer that will call methods on { @link List<Tag>.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #tagList(List<Tag>)
"
"getterDocumentation" : "\n<code>List of <code>Tag</code> that need to be added for the Elasticsearch domain.\n\nAttempts to modify the collection returned by this method will result in an\nUnsupportedOperationException.\n\n@return List of <code>Tag</code> that need to be added for the\nElasticsearch domain."
",  
"getterModel" : {  
"returnType" : "java.util.List<Tag>",  
"documentation" : null  
},  
"http" : {  
"additionalMarshallingPath" : null,  
"additionalUnmarshallingPath" : null,  
"flattened" : false,  
"greedy" : false,  
"header" : false,  
"isPayload" : false,  
"isStreaming" : false,  
"location" : null,  
"marshallLocation" : "PAYLOAD",  
"marshallLocationName" : "TagList",  
"queryString" : false,  
"statusCode" : false,  
"unmarshallLocationName" : "TagList",  
"uri" : false  
},  
"idempotencyToken" : false,  
"isBinary" : false,  
"jsonValue" : false,  
"list" : true,  
"listModel" : {  
"implType" : "java.util.ArrayList",  
"interfaceType" : "java.util.List",  
"listMemberModel" : {  
"beanStyleGetterMethodName" : "getMember",  
"beanStyleSetterMethodName" : "setMember",  
"c2jName" : "member",  
"c2jShape" : "Tag",  
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this\nobject.\n\nThis is a convenience that creates an instance of the [Tag.Builder] avoiding the need to create one\nmanually via [Tag.builder()].\n\nWhen the [Consumer] completes, [Tag.Builder#build()] is\ncalled immediately and its result is passed to [Tag.Builder#member()]\n\n@param member a consumer that will call\nmethods on [Tag.Builder]\n\n@return Returns a reference to this object so that method calls can be chained\ntogether.\n\n@see #member(Tag)"
",  
"deprecated" : false,  
"documentation" : "",
"enumType" : null,  
"eventHeader" : false,  
"eventPayload" : false,  
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.",
"getterModel" : {
   "returnType" : "Tag",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "member",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "member",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.
",
"setterMethodName" : "setMember",
"setterModel" : {
   "variableDeclarationType" : "Tag",
   "variableName" : "member",
   "variableType" : "Tag",
   "documentation" : null,
   "simpleType" : "Tag",
   "variableSetterType" : "Tag"
}
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Tag",
  "variableName": "member",
  "variableType": "Tag",
  "documentation": "",
  "simpleType": "Tag",
  "variableSetterType": "Tag"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "Tag",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "Tag",
"templateImplType": "java.util.ArrayList<Tag>",
"templateType": "java.util.List<Tag>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "TagList",
"setterDocumentation": "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain.</p>
@param tagList List of <code>Tag</code> that need to be added for the Elasticsearch domain.",
"setterMethodName": "setTagList",
"setterModel": {
  "variableDeclarationType": "java.util.List<Tag>",
  "variableName": "tagList",
  "variableType": "java.util.List<Tag>",
  "documentation": null,
  "simpleType": "List<Tag>",
  "variableSetterType": "java.util.Collection<Tag>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<Tag>",
  "variableName": "tagList",
  "variableType": "java.util.List<Tag>",
  "documentation": "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>",
  "simpleType": "List<Tag>",
  "variableSetterType": "java.util.Collection<Tag>"
},
"xmlNameSpaceUri": null
"membersAsMap" : {
"ARN" : {
"beanStyleGetterMethodName" : "getArn",
"beanStyleSetterMethodName" : "setArn",
"c2jName" : "ARN",
"c2jShape" : "ARN",
"defaultConsumerFluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String.Builder#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #arn(String)].

When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #arn(String)].

@para arn a consumer that will call methods on [link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #arn(String)",
"deprecated" : false,
"documentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
@param arn Specify the <code>ARN</code> for which you want to add the tags.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "arn",
"getterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>
@return Specify the <code>ARN</code> for which you want to add the tags.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ARN",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ARN",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ARN",
"setterDocumentation": "<p> Specify the <code>ARN</code> for which you want to add the
tags.</p>
@param arn Specify the <code>ARN</code> for which you want to add the tags.",
"setterMethodName": "setArn",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"TagList": {
  "beanStyleGetterMethodName": "getTagList",
  "beanStyleSetterMethodName": "setTagList",
  "c2jName": "TagList",
  "c2jShape": "TagList",
  "defaultConsumerFluentSetterDocumentation": "<p> List of <code>Tag</code> that need to be added for the
Elasticsearch domain. </p>This is a convenience that creates an instance of the { @link List<Tag>.Builder}
avoiding the need to create one manually via { @link List<Tag>#builder()}.\n\nWhen the { @link Consumer} completes, { @link List<Tag>.Builder#build()} is called immediately and its result is passed to { @link
#tagList(List<Tag>)}.\n@param tagList a consumer that will call methods on { @link List<Tag>.Builder}\n@return Returns a reference to this object so that method calls can be chained together;\n@see #tagList(List<Tag>)",
  "deprecated": false,
  "documentation": "<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagList",
"fluentSetterDocumentation" : "\<p\> List of \<code\>Tag\<code\> that need to be added for the Elasticsearch domain. \</p\>\@param tagList List of \<code\>Tag\<code\> that need to be added for the Elasticsearch domain.\n\@return Returns a reference to this object so that method calls can be chained together.\.
"fluentSetterMethodName" : "tagList",
"getterDocumentation" : "\<p\> List of \<code\>Tag\<code\> that need to be added for the Elasticsearch domain. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\@return List of \<code\>Tag\<code\> that need to be added for the Elasticsearch domain.\.
"getterModel" : {
   "returnType" : "java.util.List<Tag>",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "TagList",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "TagList",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
   "implType" : "java.util.ArrayList",
   "interfaceType" : "java.util.List",
   "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "c2jShape" : "Tag",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [@link Tag.Builder] avoiding the need to create one manually via [@link Tag.Builder\(\)].\nWhen the [@link Consumer] completes, [@link Tag.Builder\#build\(\)] is called immediately and its result is passed to [@link #member(Tag)]\n\@param member a consumer that will call methods on [@link Tag.Builder\]\n\@return Returns a reference to this object so that method calls can be chained together.\n\@see #member(Tag)\.
"
"deprecated": false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "member",
"fluentSetterDocumentation": "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "member",
"getterDocumentation": "Returns the value of the Member property for this object.

@return The value of the Member property for this object.",
"getterModel": {
  "returnType": "Tag",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "member",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "member",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "Tag",
  "variableName": "member"
}
"variableName" : "member",
"variableType" : "Tag",
"documentation" : null,
"simpleType" : "Tag",
"variableSetterType" : "Tag"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Tag",
"variableName" : "member",
"variableType" : "Tag",
"documentation" : "",
"simpleType" : "Tag",
"variableSetterType" : "Tag"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "Tag",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "Tag",
"templateImplType" : "java.util.ArrayList<Tag>",
"templateType" : "java.util.List<Tag>
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagList",
"setterDocumentation" : "<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain.</p>
@param tagList List of <code>Tag</code> that need to be added for the Elasticsearch domain. ",
"setterMethodName" : "setTagList",
"setterModel" : {
"variableDeclarationType" : "java.util.List<Tag>",
"variableName" : "tagList",
"variableType" : "java.util.List<Tag>",
"documentation" : null,
"simpleType" : "List<Tag>",
"variableSetterType" : "java.util.Collection<Tag>
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<Tag>",
"variableName" : "tagList",
"variableType" : "java.util.List<Tag>",
"documentation" : null,
"simpleType" : "List<Tag>",
"variableSetterType" : "java.util.Collection<Tag>
}
"variableType" : "java.util.List<Tag>",
"documentation" : "<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain.
</p>",
"complexType" : "List<Tag>",
"variableSetterType" : "java.util.Collection<Tag>"
},
"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getArn",
"beanStyleSetterMethodName" : "setArn",
"c2jName" : "ARN",
"c2jShape" : "ARN",
"defaultConsumerFluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>

This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String.Builder#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #arn(String)].

A consumer that will call methods on [link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #arn(String),
"deprecated" : false,
"documentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>

Specify the <code>ARN</code> for which you want to add the tags.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #arn(String),
"fluentSetterMethodName" : "arn",
"getDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>

Specify the <code>ARN</code> for which you want to add the tags.\n@return Specify the <code>ARN</code> for which you want to add the tags.\n"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getArn",
"beanStyleSetterMethodName" : "setArn",
"c2jName" : "ARN",
"c2jShape" : "ARN",
"defaultConsumerFluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>

This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String.Builder#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #arn(String)].

A consumer that will call methods on [link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #arn(String),
"deprecated" : false,
"documentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>

Specify the <code>ARN</code> for which you want to add the tags.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #arn(String),
"fluentSetterMethodName" : "arn",
"getDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags.</p>

Specify the <code>ARN</code> for which you want to add the tags.\n@return Specify the <code>ARN</code> for which you want to add the tags.\n"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ARN",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ARN",
"uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"setterDocumentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags. </p>@param arn Specify the <code>ARN</code> for which you want to add the tags.",
"setterMethodName" : "setArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : "<p> Specify the <code>ARN</code> for which you want to add the tags. </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getTagList",
  "beanStyleSetterMethodName" : "setTagList",
  "c2jName" : "TagList",
  "c2jShape" : "TagList",
  "defaultConsumerFluentSetterDocumentation" : "<p> List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>This is a convenience that creates an instance of the { @link List<Tag>.Builder} avoiding the need to create one manually via { @link List<Tag>#builder()}. When the { @link Consumer} completes, { @link List<Tag>.Builder#build()} is called immediately and its result is passed to { @link #tagList(List<Tag>)}.
@param tagList a consumer that will call methods on { @link List<Tag>.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #tagList(List<Tag>)",}
"deprecated": false,
"documentation": "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "tagList",
"fluentSetterDocumentation": "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>
@param tagList List of <code>Tag</code> that need to be added for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName": "tagList",
"getterDocumentation": "<p>List of <code>Tag</code> that need to be added for the Elasticsearch domain. </p>
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException."
@return List of <code>Tag</code> that need to be added for the Elasticsearch domain.
"getterModel": {
  "returnType": "java.util.List<Tag>",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "TagList",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "TagList",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "Tag",
  }}
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [@link Tag.Builder] avoiding the need to create one manually via [@link Tag#builder()]. When the [@link Consumer] completes, [@link Tag.Builder#build()] is called immediately and its result is passed to [@link #member(Tag)].

@returns a reference to this object so that method calls can be chained together.

@see #member(Tag)

"deprecated" : false,
"documentation" : "".
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@returns The value of the Member property for this object.

"getterModel" : {
"returnType" : "Tag",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonDataValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO"
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : null,
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : "",
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "Tag",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "Tag",
"templateImplType" : "java.util.ArrayList<Tag>",
"templateType" : "java.util.List<Tag>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagList",
"setterDocumentation" : " List of <code>Tag</code> that need to be added for the Elasticsearch domain.

@param tagList List of <code>Tag</code> that need to be added for the Elasticsearch domain."
"setterMethodName" : "setTagList",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<Tag>",
  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "documentation" : null,
  "simpleType" : "List<Tag>",
  "variableSetterType" : "java.util.Collection<Tag>"
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<Tag>",
  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "documentation" : "List of list of <code>Tag</code> that need to be added for the Elasticsearch domain.
  
  "simpleType" : "List<Tag>",
  "variableSetterType" : "java.util.Collection<Tag>"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "ARN", "TagList" ],
"shapeName" : "AddTagsRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "AddTagsRequest",
  "variableName" : "addTagsRequest",
  "variableType" : "AddTagsRequest",
  "documentation" : null,
  "simpleType" : "AddTagsRequest",
  "variableSetterType" : "AddTagsRequest"
},
"wrapper" : false
},
"AddTagsResponse" : {
  "c2jName" : "AddTagsResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : null,
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [ ],
"membersAsMap": { },
"nonStreamingMembers": [ ],
"requestSignerAware": false,
"requestSignerClassFqn": null,
"required": null,
"shapeName": "AddTagsResponse",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "AddTagsResponse",
  "variableName": "addTagsResponse",
  "variableType": "AddTagsResponse",
  "documentation": null,
  "simpleType": "AddTagsResponse",
  "variableSetterType": "AddTagsResponse"
},
"wrapper": false
},
"AdditionalLimit": {
  "c2jName": "AdditionalLimit",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "<p> List of limits that are specific to a given InstanceType and for each of it's <code><a>InstanceRole</a></code> . </p>",
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": null,
  "variable": {
    "variableDeclarationType": "AdditionalLimit",
    "variableName": "additionalLimit",
    "variableType": "AdditionalLimit",
    "documentation": null,
    "simpleType": "AdditionalLimit",
    "variableSetterType": "AdditionalLimit"
  }
},
"wrapper": false
}
"members" : [ { 
"beanStyleGetterMethodName" : "getLimitName",
"beanStyleSetterMethodName" : "setLimitName",
"c2jName" : "LimitName",
"c2jShape" : "LimitName",
"defaultConsumerFluentSetterDocumentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;code&gt; &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; etc. Attributes and their details: &lt;br/&gt; &lt;ul&gt; &lt;li&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; can support as master node. &lt;/li&gt; MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt; &lt;/p&gt;\nThis is a convenience that creates an instance of the \{ @link String.Builder\} avoiding the need to create one manually via \{ @link String#builder()\}. When the \{ @link Consumer \} completes, \{ @link String.Builder#build()\} is called immediately and its result is passed to \{ @link #limitName(String)\}\. &lt;param limitName a consumer that will call methods on \{ @link String.Builder\}\&return

"documentation" : "&lt;p&gt; Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;code&gt; &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; etc. Attributes and their details: &lt;br/&gt; &lt;ul&gt; &lt;li&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; can support as master node. &lt;/li&gt; MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt; &lt;/p&gt;\n\n@param limitName Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;code&gt; &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; etc. Attributes and their details: &lt;br/&gt; &lt;ul&gt; &lt;li&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; can support as master node. &lt;/li&gt; MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt; &lt;/p&gt;\n\n@return

"deprecated" : false,
"documentation" : "&lt;p&gt; Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;code&gt; &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; etc. Attributes and their details: &lt;br/&gt; &lt;ul&gt; &lt;li&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; can support as master node. &lt;/li&gt; MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt; &lt;/p&gt;\n"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitName",
"fluentSetterDocumentation" : "&lt;p&gt; Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;code&gt; &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; etc. Attributes and their details: &lt;br/&gt; &lt;ul&gt; &lt;li&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; can support as master node. &lt;/li&gt; MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt; &lt;/p&gt;\n\n@param limitName Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;code&gt; &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; etc. Attributes and their details: &lt;br/&gt; &lt;ul&gt; &lt;li&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify how much data nodes upto which given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; can support as master node. &lt;/li&gt; MaximumNumberOfDataNodesWithoutMasterNode&lt;/li&gt; This attribute will be present in Data node only to specify how much data nodes of given &lt;code&gt; &lt;a&gt;ESPartitionInstanceType&lt;/a&gt; &lt;/code&gt; upto which you don't need any master nodes to govern them. &lt;/ul&gt; &lt;/p&gt;\n\n@return

"getDocumentation" : "&lt;p&gt; Name of Additional Limit is specific to a given InstanceType and for each of it's &lt;code&gt; &lt;a&gt;InstanceRole&lt;/a&gt; &lt;/code&gt; etc. Attributes and their details: &lt;br/&gt; &lt;ul&gt; &lt;li&gt;MaximumNumberOfDataNodesSupported&lt;/li&gt; This attribute will be present in Master node only to specify
how much data nodes upto which given `<code>` `<a>ESPartitionInstanceType</a>` `<code>` can support as master node. `<li>` MaximumNumberOfDataNodesWithoutMasterNode This attribute will be present in Data node only to specify how much data nodes of given `<code>` `<a>ESPartitionInstanceType</a>` `<code>` upto which you don't need any master nodes to govern them. `<li>` `<p>@return Name of Additional Limit is specific to a given InstanceType and for each of it's `<code>` `<a>InstanceRole</a>` `<code>` etc. `<br/> Attributes and their details: `<br/> `<ul>` `<li>` MaximumNumberOfDataNodesSupported This attribute will be present in Master node only to specify how much data nodes upto which given `<code>` `<a>ESPartitionInstanceType</a>` `<code>` can support as master node. `<li>` MaximumNumberOfDataNodesWithoutMasterNode This attribute will be present in Data node only to specify how much data nodes of given `<code>` `<a>ESPartitionInstanceType</a>` `<code>` upto which you don't need any master nodes to govern them. </ul>"
specify how much data nodes upto which given `<code><a>ESPartitionInstanceType</a></code>` can support as master node. `<li>MaximumNumberOfDataNodesWithoutMasterNode</li>` This attribute will be present in Data node only to specify how much data nodes of given `<code><a>ESPartitionInstanceType</a></code>` upto which you don't need any master nodes to govern them. `<ul`

```json
"setterMethodName": "setLimitName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "limitName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "limitName",
  "variableType": "String",
  "documentation": "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's <code><a>InstanceRole</a></code> etc. Attributes and their details: <ul>
<li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given `<code><a>ESPartitionInstanceType</a></code>` can support as master node. 
<li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given `<code><a>ESPartitionInstanceType</a></code>` upto which you don't need any master nodes to govern them. </ul>

```
```
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterDocumentation" : "\<p\> Value for given <code><a>AdditionalLimit$LimitName</a></code> \</code>.
\<p\>ln@<strong>param</strong> limitValues Value for given <code><a>AdditionalLimit$LimitName</a></code> \</code>.
\<p\>ln@<strong>return</strong> Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "limitValues",
"getterDocumentation" : "\<p\> Value for given <code><a>AdditionalLimit$LimitName</a></code> \</code>.
\<p\>ln@<strong>return</strong> Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
\<p\>ln@<strong>return</strong> Value for given <code><a>AdditionalLimit$LimitName</a></code> \</code>
\</code>.
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "LimitValues",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LimitValues",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "LimitValue",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\n
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create
one manually via {@link String#builder()}.\n
When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}\n\n@<strong>param</strong> member a consumer that will call methods on {@link String.Builder}\n\n@<strong>return</strong> Returns a reference to this object so that method calls can be chained together.\n@<strong>see</strong> #member(String)"}
The new value for the Member property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

Sets the value of the Member property for this object.

@returns The value of the Member property for this object.

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Sets the value of the Member property for this object.

Sets the value of the Member property for this object.
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "LimitValues",
"setterDocumentation" : "<p> Value for given <code> <a>AdditionalLimit$LimitName</a> </code> .</p>
@param limitValues Value for given <code> <a>AdditionalLimit$LimitName</a> </code> .",
"setterMethodName" : "setLimitValues",
"setterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "limitValues",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "limitValues",
"variableType" : "limitValues",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "limitValues",
"variableType" : "limitValues",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"}
"variableType" : "java.util.List<String>",
"documentation" : "<p> Value for given <code> <a>AdditionalLimit$LimitName</a> </code> . </p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
",
xmNameSpaceUri" : null
}]
"membersAsMap" : {
 "LimitName" : {
 "beanStyleGetterMethodName" : "getLimitName",
 "beanStyleSetterMethodName" : "setLimitName",
 "c2jName" : "LimitName",
 "c2jShape" : "LimitName",
 "defaultConsumerFluentSetterDocumentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. Attributes and their details: <br/> <ul> <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them. </ul> 
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #limitName(String)}.

"deprecated" : false,
"documentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. Attributes and their details: <br/> <ul> <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them. </ul> 
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodDocumentation" : "limitName",
"fluentSetterDocumentation" : "Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. Attributes and their details: <br/> <ul> <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <br/> <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them. </ul>"}
master node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data
node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which
you don't need any master nodes to govern them. <li>@return Returns a reference to this object so that method
calls can be chained together.

"fluentSetterMethodName" : "limitName",

"getterDocumentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of
it's <code> <a>InstanceRole</a> </code> etc. <br/>Attributes and their details: <br/> <ul><li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify
how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master
node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only
to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't
need any master nodes to govern them. <li>@return Name of Additional Limit is specific to a given
InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. <br/>Attributes and their details: <br/> <ul><li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to
specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master
node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only
to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't
need any master nodes to govern them. <li>@return Returns a reference to this object so that method
calls can be chained together.

"fluentSetterMethodName" : "limitName",

"getterDocumentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of
it's <code> <a>InstanceRole</a> </code> etc. <br/>Attributes and their details: <br/> <ul><li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify
how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master
node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only
to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't
need any master nodes to govern them. <li>@return Returns a reference to this object so that method
calls can be chained together.

"fluentSetterMethodName" : "limitName",

"getterDocumentation" : "<p>Name of Additional Limit is specific to a given InstanceType and for each of it's
Attributes and their details: 

- **MaximumNumberOfDataNodesSupported**
  - This attribute will be present in Master node only to specify how much data nodes upto which given `ESPartitionInstanceType` can support as master node.

- **MaximumNumberOfDataNodesWithoutMasterNode**
  - This attribute will be present in Data node only to specify how much data nodes of given `ESPartitionInstanceType` upto which you don't need any master nodes to govern them.

- **limitName**
  - Name of Additional Limit is specific to a given `InstanceType` and for each of it's `InstanceRole` etc.

Attributes and their details:

- **MaximumNumberOfDataNodesSupported**
  - This attribute will be present in Master node only to specify how much data nodes upto which given `ESPartitionInstanceType` can support as master node.

- **MaximumNumberOfDataNodesWithoutMasterNode**
  - This attribute will be present in Data node only to specify how much data nodes of given `ESPartitionInstanceType` upto which you don't need any master nodes to govern them.

```xml
<c>setLimitName</c>,
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "limitName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variable.SetterType" : "String"
}
,"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "limitName",
  "variableType" : "String",
  "documentation" : "Name of Additional Limit is specific to a given InstanceType and for each of it's InstanceRole etc. Attributes and their details: MaximumNumberOfDataNodesSupported This attribute will be present in Master node only to specify how much data nodes upto which given ESPartitionInstanceType can support as master node. MaximumNumberOfDataNodesWithoutMasterNode This attribute will be present in Data node only to specify how much data nodes of given ESPartitionInstanceType upto which you don't need any master nodes to govern them. ",
"xmlNameSpaceUri" : null
},
"LimitValues" : {
  "beanStyleGetterMethodName" : "getLimitValues",
  "beanStyleSetterMethodName" : "setLimitValues",
  "c2jName" : "LimitValues",
  "c2jShape" : "LimitValueList",
  "defaultConsumerFluentSetterDocumentation" : "Value for given AdditionalLimit$LimitName. This is a convenience that creates an instance of the {Link List<String>.Builder} avoiding the need to create one manually via {List<String>#builder()}. When the {Link Consumer} completes, {List<String>.Builder#build()} is called immediately and its result is passed
```
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "LimitValue",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()].
When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #member(String)].
@see #member(String)

@deprecated : false,
"documentation" : ",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

@see #member(String)

@getDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.

@getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."

"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,

"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "LimitValues",
"setterDocumentation": 

<p>Value for given <code><a>AdditionalLimit$LimitName</a></code></p>

@param limitValues Value for given <code><a>AdditionalLimit$LimitName</a></code>."

"setterMethodName": "setLimitValues",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "limitValues",
  "variableType": "limitValues",
  "variableType": "java.util.List<String>"
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
],
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "limitValues",
"variableType" : "java.util.List<String>",
"documentation" : "<p> Value for given <code> AdditionalLimit$LimitName </code>. </p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getLimitName",
"beanStyleSetterMethodName" : "setLimitName",
"c2jName" : "LimitName",
"c2jShape" : "LimitName",
"defaultConsumerFluentSetterDocumentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <code> InstanceRole </code> etc. Attributes and their details: <br/> <ul> <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> ESPartitionInstanceType </code> can support as master node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> ESPartitionInstanceType </code> upto which you don't need any master nodes to govern them. </ul> This is a convenience that creates an instance of the [ @link String.Builder ] avoiding the need to create one manually via [ @link String#builder() ].
When the [ @link Consumer ] completes, [ @link String.Builder#build() ] is called immediately and its result is passed to [ @link #limitName(String) ].

Parameters:
@link String a consumer that will call methods on [ @link String.Builder ].
@see #limitName(String)

Returns a reference to this object so that method calls can be chained together.
"deprecated" : false,
"documentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <code> InstanceRole </code> etc. Attributes and their details: <br/> <ul> <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> ESPartitionInstanceType </code> can support as master node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> ESPartitionInstanceType </code> upto which you don't need any master nodes to govern them. </ul>
"enumType" : null,
"eventoHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "null",
"fluentEnumSetterMethodName" : "null",
"fluentGetterMethodName" : "null",
"fluentSetterDocumentation" : "null",
"variableName" : "null",
"variableType" : "null",
"variableSetterType" : "null",
"complexType" : "null",
"documentation" : "null",
"simpleType" : "null",
"variableSetterType" : "null",
"variableType" : "null",
"variableDeclarationType" : "null",
"simple" : false
}
of it's <code> <a>InstanceRole</a> </code> etc. Attributes and their details: <br/>

- **MaximumNumberOfDataNodesSupported**
  This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node.

- **MaximumNumberOfDataNodesWithoutMasterNode**
  This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them.

```java
@<br/>

@return Returns a reference to this object so that method calls can be chained together.
```

```
"fluentSetterMethodName" : "limitName",

getterDocumentation" : "<br/>

- **MaximumNumberOfDataNodesSupported**
  This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node.

- **MaximumNumberOfDataNodesWithoutMasterNode**
  This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them.

```java
@<br/>

@return Returns a reference to this object so that method calls can be chained together.
```

```
"fluentSetterMethodName" : "limitName",

getterDocumentation" : "<br/>

- **MaximumNumberOfDataNodesSupported**
  This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node.

- **MaximumNumberOfDataNodesWithoutMasterNode**
  This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them.

```java
@<br/>

@return Returns a reference to this object so that method calls can be chained together.
```
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "LimitName",
"setterDocumentation" : "<p> Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. <br/> Attributes and their details: <br/> <ul>
<li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them. 

@param limitName Name of Additional Limit is specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> etc. <br/> Attributes and their details: <br/> <ul> <li>MaximumNumberOfDataNodesSupported</li> This attribute will be present in Master node only to specify how much data nodes upto which given <code> <a>ESPartitionInstanceType</a> </code> can support as master node. <li>MaximumNumberOfDataNodesWithoutMasterNode</li> This attribute will be present in Data node only to specify how much data nodes of given <code> <a>ESPartitionInstanceType</a> </code> upto which you don't need any master nodes to govern them. 

.setterMethodName" : "setLimitName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "limitName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "limitName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getLimitValues",
"beanStyleSetterMethodName" : "setLimitValues",
"c2jName" : "LimitValues",
"c2jShape" : "LimitValueList",
"defaultConsumerFluentSetterDocumentation" : "<p> Value for given <code>AdditionalLimit$LimitName</code> </p>
This is a convenience that creates an instance of the { @link List<String>.Builder } avoiding the need to create one manually via { @link List<String>#builder() }. When the { @link Consumer } completes, { @link List<String>.Builder#build() } is called immediately and its result is passed to { @link #limitValues(List<String>) }. Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p> Value for given <code>AdditionalLimit$LimitName</code> </p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterDocumentation" : "<p> Value for given <code>AdditionalLimit$LimitName</code> </p>

"getterDocumentation" : "<p> Value for given <code>AdditionalLimit$LimitName</code> </p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LimitValues",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LimitValues",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "LimitValue",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the \[@link String.Builder\] avoiding the need to create one manually via \[@link String#builder()\].\nWhen the \[@link Consumer\] completes, \[@link String.Builder#build()\] is called immediately and its result is passed to \[@link \#member(String)\].\n@param member a consumer that will call methods on \[@link String.Builder\]\n@return Returns a reference to this object so that method calls can be chained together.\n@see \#member(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.\n",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object."
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "statusMessage" : false,
  }
}
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST"
"name" : "LimitValues",
"setterDocumentation" : "<p> Value for given <code> <a>AdditionalLimit$LimitName</a> </code> .
</p>
@param limitValues Value for given <code> <a>AdditionalLimit$LimitName</a> </code> .",
"setterMethodName" : "setLimitValues",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitValues",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitValues",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "AdditionalLimit",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "AdditionalLimit",
  "variableName" : "additionalLimit",
  "variableType" : "AdditionalLimit",
  "documentation" : null,
  "simpleType" : "AdditionalLimit",
  "variableSetterType" : "AdditionalLimit"
},
"wrapper" : false
},
"AdvancedOptionsStatus" : {
  "c2jName" : "AdvancedOptionsStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
],
"deprecated" : false,
"documentation" : "<p>Status of the advanced options for the specified Elasticsearch domain. Currently, the following advanced options are available:
</p>
<li>Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</li>
<li>Option to specify the percentage of heap space that is allocated to field data. By default, this setting is unbounded.</li>
For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options">Configuring Advanced Options</a>.</p>

"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayLoadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshaller" : null,
"members" : [
  {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "AdvancedOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of advanced options for the specified Elasticsearch domain.</p>

This is a convenience that creates an instance of the {<a link>Map<String,String> Builder</a>} avoiding the need to create one manually via {<a link>Map<String,String>#builder()</a>}. When the {<a link>Consumer</a>} completes, {<a link>Map<String,String>.Builder#build()</a>} is called immediately and its result is passed to {<a link>options(Map<String,String>)</a>}. Returns a reference to this object so that method calls can be chained together.

@see #options(Map<String,String>)",
    "deprecated" : false,
    "documentation" : "<p>Specifies the status of advanced options for the specified Elasticsearch domain.</p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "options",
    "fluentSetterDocumentation" : "<p>Specifies the status of advanced options for the specified Elasticsearch domain.</p>
@param options Specifies the status of advanced options for the specified Elasticsearch
domain.
@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain. </p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Specifies the status of advanced options for the specified Elasticsearch domain.
",
"getterModel" : {
"returnType" : "java.util.Map<String,String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
"implType" : "java.util.HashMap",
"interfaceType" : "java.util.Map",
"keyLocationName" : "key",
"keyModel" : {
"beanStyleGetterMethodName" : "getKey",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "key",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String.Builder#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}.<p>@param key a consumer that will call methods on { @link String.Builder}?
@see #key(String)
",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.
@\param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "Returns the value of the Key property for this object.
@return The value of the Key property for this object."
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "key",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "key",
 "uri" : false
 },
"idempotencyToken" : false,
 "isBinary" : false,
 "jsonValue" : false,
 "list" : false,
 "listModel" : null,
 "map" : false,
 "mapModel" : null,
 "marshallingType" : "STRING",
 "name" : "Key",
 "setterDocumentation" : "Sets the value of the Key property for this object.
@\param key The new value for the Key property for this object.
",
 "setterMethodName" : "setKey",
 "setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "key",
}
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
],
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": ",",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlnsSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "c2jName": "value",
  "c2jShape": "String",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the \{ @link String.Builder\} avoiding the need to create one manually via \{ @link String#builder()\}.

When the \{ @link Consumer\} completes, \{ @link String.Builder#build()\} is called immediately and its result is passed to \{ @link #value(String)\}.

@see #value(String)
@deprecated false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "value",
"fluentSetterDocumentation": "Sets the value of the Value property for this object.

The new value for the Value property for this object.

@see #value(String)
@return Returns a reference to this object so that method calls can be chained together.
@deprecated false,
"documentation": "",
"http": {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : ",",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"entryType" : "Map.Entry<String, String>"
"templateType" : "java.util.Map<String,String>",

"marshallingType" : "MAP",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {

"variableDeclarationType" : "java.util.Map<String,String>",
"variableName" : "options",
"variableType" : "java.util.Map<String,String>",
"documentation" : null,
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>",
}
,"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "java.util.Map<String,String>",
"variableName" : "options",
"variableType" : "java.util.Map<String,String>",
"documentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>",
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>",

"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>
The result is passed to <code>status(OptionStatus)</code>.
@param status a consumer that will call methods on <code>OptionStatus.Builder</code>
@return Returns a reference to this object so that method calls can be chained together.

"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : ":<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>",
"deprecated" : false,
"documentation" : ":<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
for the specified Elasticsearch domain.

```json
@Param status Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.
```

```java
"setterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain. </p>

@return Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.
```

```java
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain. </p>

@return Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.
```

```java
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
}
```
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>",
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
    "Options" : {
        "beanStyleGetterMethodName" : "getOptions",
        "beanStyleSetterMethodName" : "setOptions",
        "c2jName" : "Options",
        "c2jShape" : "AdvancedOptions",
        "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link Map<String,String>.Builder} avoiding the need to create one manually via { @link Map<String,String>#builder()}. When the { @link Consumer} completes, { @link Map<String,String>.Builder#build()} is called immediately and its result is passed to { @link #options(Map<String,String>)}. { @link @param options a consumer that will call methods on { @link Map<String,String>.Builder}\n@return Returns a reference to this object so that method calls can be chained together.@see #options(Map<String,String>)
},
    "deprecated" : false,
    "documentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "options",
    "fluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.
@param options Specifies the status of advanced options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.
@see #options(Map<String,String>)
",
    "getterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return Specifies the status of advanced options for the specified Elasticsearch domain.
",
    "getterModel" : {
        "returnType" : "java.util.Map<String,String>",
        "documentation" : null
    }
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.
This is a convenience that creates an instance of the \{ [@link String.Builder] avoiding the need to create one manually via \{ [@link String#builder()].\} When the \{ [@link Consumer] completes, \{ [@link String.Builder#build()] \} is called immediately and its result is passed to \{ [@link #key(String))\} \@param key a consumer that will call methods on \{ [@link String.Builder]\} \@return Returns a reference to this object so that method calls can be chained together.\n\@see #key(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "key",
    "fluentSetterDocumentation" : "Sets the value of the Key property for this object.
\@param key The new value for the Key property for this object.\n\@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "key",
...
"getterDocumentation": "Returns the value of the Key property for this object.
\n@returns The value of the
Key property for this object.",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "key",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "key",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"setterDocumentation": "Sets the value of the Key property for this object.
\n@param key The new value for the Key property for this object.",
"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String"}
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "c2jName": "value",
  "c2jShape": "String",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create
one manually via \{ @link String#builder() \}.

When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #value(String) \}.

@parameter {value} a consumer that will call methods on \{ @link String.Builder\}.

@return Returns a reference to this object so that method calls can be chained together.

@see #value(String)"
  "deprecated": false,
  "documentation": "",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "value",
  "fluentSetterDocumentation": "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create
one manually via \{ @link String#builder() \}.

When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #value(String) \}.

@parameter {value} a consumer that will call methods on \{ @link String.Builder\}.

@return Returns a reference to this object so that method calls can be chained together.

@see #value(String)",
  "deprecated": false,
  "documentation": "",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "value",
  "fluentSetterDocumentation": "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create
one manually via \{ @link String#builder() \}.

When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #value(String) \}.

@parameter {value} a consumer that will call methods on \{ @link String.Builder\}.

@return Returns a reference to this object so that method calls can be chained together.

@see #value(String)",
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "value",
  "queryString": false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.
@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : 
", "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
@param options Specifies the status of advanced options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "options",
  "variableType" : "java.util.Map<String,String>",
...
"documentation" : null,
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>",
}
,"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.Map<String,String>",
"variableName" : "options",
"variableType" : "java.util.Map<String,String>",
"documentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>",
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>",
},
"xmlNameSpaceUri" : null,
"Status" : {
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>

This is a convenience that creates an instance of the { @link OptionStatus.Builder} avoiding the need to create one manually via { @link OptionStatus#builder()}. When the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link #status(OptionStatus)}. 

@see #status(OptionStatus)

@deprecated" : false,
"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>

@see #status(OptionStatus)

@return Returns a reference to this object so that method calls can be chained together.

@deprecated" : false,
"getterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.

@see #status(OptionStatus)

@return Returns a reference to this object so that method calls can be chained together.

@deprecated" : false,
"getterModel" : { "returnType" : "OptionStatus",}
"documentation" : null,
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>\*\@param status Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain."
,"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.\*/
  "simpleType" : "OptionStatus",
}
"variableSetterType" : "OptionStatus",
],
"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link
Map<String,String>.Builder} avoiding the need to create one manually via { @link
Map<String,String>#builder()}. When the { @link Consumer} completes, { @link
Map<String,String>.Builder#build()} is called immediately and its result is passed to { @link
#options(Map<String,String>)}. @param options a consumer that will call methods on { @link
Map<String,String>.Builder} @return Returns a reference to this object so that method calls can be chained
together.@see #options(Map<String,String>)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch
domain.</p>
@param options Specifies the status of advanced options for the specified Elasticsearch
domain.<@return Returns a reference to this object so that method calls can be chained
together."
,"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch
domain.<@p>@n@param options Specifies the status of advanced options for the specified Elasticsearch
domain.<@n@return Returns a reference to this object so that method calls can be chained
together."
,"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch
domain.<@n><p>@nAttempts to modify the collection returned by this method will result in an
UnsupportedOperationException.<@n>@n@return Specifies the status of advanced options for the specified Elasticsearch
domain."",
"getterModel" : {
"returnType" : "java.util.Map<String,String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName": "Options",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Options",
"uri": false,
}),
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": true,
"mapModel": {
"implType": "java.util.HashMap",
"interfaceType": "java.util.Map",
"keyLocationName": "key",
"keyModel": {
"beanStyleGetterMethodName": "getKey",
"beanStyleSetterMethodName": "setKey",
"c2jName": "key",
"c2jShape": "String",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String.Builder#builder()} .\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)} .\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
"deprecated": false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "key",
"fluentSetterDocumentation": "Sets the value of the Key property for this object.\n\nThe new value for the Key property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName": "key",
"getterDocumentation": "Returns the value of the Key property for this object.\n\n@return The value of the Key property for this object.\n",
"getterModel": {
"returnType": "String",
"documentation": null
}
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "key",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "key",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"setterDocumentation": "Sets the value of the Key property for this object.\n@param key The new value for the Key property for this object.\n"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to value(String). param value a consumer that will call methods on String.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #value(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.
@param value The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.
@return The value of the Value property for this object.
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Value",
"setterDocumentation": "Sets the value of the Value property for this object.
    @param value The new value for the Value property for this object.",
"setterMethodName": "setValue",
"setterModel": {
    "variableDeclarationType": "String",
    "variableName": "value",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "String",
    "variableName": "value",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"entryType": "Map.Entry<String, String>",
"templateType": "java.util.Map<String,String>
",
"marshallingType": "MAP",
"name": "Options",
"setterDocumentation": "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>
    @param options Specifies the status of advanced options for the specified Elasticsearch domain.",
"setterMethodName": "setOptions",
"setterModel": {
    "variableDeclarationType": "java.util.Map<String,String>",
    "variableName": "options",
    "variableType": "java.util.Map<String,String>",
    "documentation": null,
    "simpleType": "Map<String,String>",
    "variableSetterType": "java.util.Map<String,String>
"},
"simple": false,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "java.util.Map<String,String>",
    "variableName": "options"
"variableType" : "java.util.Map<String,String>",
"documentation" : "<p> Specifies the status of advanced options for the specified Elasticsearch domain.</p>",
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>
",
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for
advanced options for the specified Elasticsearch domain.</p>

This is a convenience that creates an instance of the
{@link OptionStatus.Builder} avoiding the need to create one manually via {
@link OptionStatus#builder()}. When the {@link Consumer} completes, {
@link OptionStatus.Builder#build()} is
called immediately and its result is passed to {
@link status(OptionStatus)}. @param status a consumer that will
call methods on {
@link OptionStatus.Builder} @return Returns a reference to this object so that method calls can
be chained together. @see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the
specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the
specified Elasticsearch domain.</p>

This is a convenience that creates an instance of the
{@link OptionStatus.Builder} avoiding the need to create one manually via {
@link OptionStatus#builder()}. When the {@link Consumer} completes, {
@link OptionStatus.Builder#build()} is
called immediately and its result is passed to {
@link status(OptionStatus)}. @param status a consumer that will
call methods on {
@link OptionStatus.Builder} @return Returns a reference to this object so that method calls can
be chained together. @see #status(OptionStatus)",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the
specified Elasticsearch domain.</p>

This is a convenience that creates an instance of the
{@link OptionStatus.Builder} avoiding the need to create one manually via {
@link OptionStatus#builder()}. When the {@link Consumer} completes, {
@link OptionStatus.Builder#build()} is
called immediately and its result is passed to {
@link status(OptionStatus)}. @param status a consumer that will
call methods on {
@link OptionStatus.Builder} @return Returns a reference to this object so that method calls can
be chained together. @see #status(OptionStatus)",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Status",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Status",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
"setterDocumentation": "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>
@param status Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain."

"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p> Specifies the status of <code>OptionStatus</code> for advanced options for the specified Elasticsearch domain.</p>
"simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"xmlNameSpaceUri": null
}],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "Options", "Status" ],
"shapeName": "AdvancedOptionsStatus",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
"simpleType" : "BaseException",
"variableSetterType" : "BaseException"
},
"wrapper" : false
},
"CancelElasticsearchServiceSoftwareUpdateRequest" : {
"c2jName" : "CancelElasticsearchServiceSoftwareUpdateRequest",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "Container for the parameters to the \n\n\<code><a>CancelElasticsearchServiceSoftwareUpdate</a></code> operation. Specifies the name of the \nElasticsearch domain that you wish to cancel a service software update on.\n\n\p>"
,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
"action" : "CancelElasticsearchServiceSoftwareUpdate",
"locationName" : null,
"requestUri" : "/2015-01-01/es/serviceSoftwareUpdate/cancel",
"target" : null,
"verb" : "POST",
"xmlNameSpaceUri" : null
},
"members" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "The name of the domain that you want to stop the latest \nservice software update on.\n\n\p>This is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}. When the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #domainName(String)}\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #domainName(String)"
]
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "The name of the domain that you want to stop the latest service software update on.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
  "DomainName" : {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "The name of the domain that you want to stop the latest service software update on. This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()]. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [domainName(String)].
@see #domainName(String)",
    "deprecated" : false,
    "documentation" : "The name of the domain that you want to stop the latest service software update on.
@see #domainName(String)",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "domainName",
    "fluentSetterDocumentation" : "The name of the domain that you want to stop the latest service software update on.\n@see #domainName
@see #domainName",
    "fluentSetterMethodName" : "domainName",
    "getterDocumentation" : "The name of the domain that you want to stop the latest service software update on.\n@see #domainName"}
}
on.

@return The name of the domain that you want to stop the latest service software update on.

"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},

"http" : {
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    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "DomainName",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "DomainName",
    "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "DomainName",

"setterDocumentation" : "<p>The name of the domain that you want to stop the latest service software update on.</p>

@<p>param domainName The name of the domain that you want to stop the latest service software update on.

"setterMethodName" : "setDomainName",

"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
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    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"}
"documentation" : "&lt;p&gt;The name of the domain that you want to stop the latest service software update on.&lt;/p&gt;",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The name of the domain that you want to stop the latest service software update on.&lt;/p&gt;\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}\n\n@see \#domainName(String)\"",
"deprecated" : false,
"documentation" : "&lt;p&gt;The name of the domain that you want to stop the latest service software update on.&lt;/p&gt;",
"enumType" : null,
"eventIdHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "&lt;p&gt;The name of the domain that you want to stop the latest service software update on.&lt;/p&gt;\n\n@see \#domainName(String)\"",
"getterDocumentation" : "&lt;p&gt;The name of the domain that you want to stop the latest service software update on.&lt;/p&gt;\n\n@see \#domainName(String)\"",
"getterModel" : {
"returnType" : "String",
"documentation" : null
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"http" : { 
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "DomainName",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "DomainName",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "DomainName",
"setterDocumentation": "The name of the domain that you want to stop the latest service software update on."
@param domainName The name of the domain that you want to stop the latest service software update on.
",
"setterMethodName": "setDomainName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
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  "variableName": "domainName",
  "variableType": "String",
  "documentation": "The name of the domain that you want to stop the latest service software update on.
",  
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": [ "DomainName" ],
"shapeName": "CancelElasticsearchServiceSoftwareUpdateRequest",
"simpleMethod": false,
"unmarshaller": null,
"variable": {

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"variableDeclarationType" : "CancelElasticsearchServiceSoftwareUpdateRequest",
"variableName" : "cancelElasticsearchServiceSoftwareUpdateRequest",
"variableType" : "CancelElasticsearchServiceSoftwareUpdateRequest",
"documentation" : null,
"simpleType" : "CancelElasticsearchServiceSoftwareUpdateRequest",
"variableSetterType" : "CancelElasticsearchServiceSoftwareUpdateRequest"
},
"wrapper" : false
},
"CancelElasticsearchServiceSoftwareUpdateResponse" : {
"c2jName" : "CancelElasticsearchServiceSoftwareUpdateResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "The result of a CancelElasticsearchServiceSoftwareUpdate operation. Contains the status of the update."
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshaller" : null,
"members" : [
  "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
  "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
  "c2jName" : "ServiceSoftwareOptions",
  "c2jShape" : "ServiceSoftwareOptions",
  "defaultConsumerFluentSetterDocumentation" : "The current status of the Elasticsearch service software update."
"deprecated" : false,
"documentation" : "The current status of the Elasticsearch service software update.

This is a convenience that creates an instance of the ServiceSoftwareOptions.Builder avoiding the need to create one manually via ServiceSoftwareOptions.Builder(). When the CancelElasticsearchServiceSoftwareUpdateResponse.build() is called immediately and its result is passed to a consumer that will call methods on a ServiceSoftwareOptions a reference to this object so that method calls can be chained together.

Example:

```
@see #serviceSoftwareOptions(ServiceSoftwareOptions)
```
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "serviceSoftwareOptions",
"fluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
@param serviceSoftwareOptions The current status of the Elasticsearch service software update.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "serviceSoftwareOptions",
"getterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
@return
The current status of the Elasticsearch service software update.",
"getterModel" : {
  "returnType" : "ServiceSoftwareOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ServiceSoftwareOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ServiceSoftwareOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"setterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
@param serviceSoftwareOptions The current status of the Elasticsearch service software update.",
"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions"}
"variableSetterType": "ServiceSoftwareOptions",
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "ServiceSoftwareOptions",
"variableName": "serviceSoftwareOptions",
"variableType": "ServiceSoftwareOptions",
"documentation": "<p>The current status of the Elasticsearch service software update.</p>",
"simpleType": "ServiceSoftwareOptions",
"variableSetterType": "ServiceSoftwareOptions"
},
"xmlNameSpaceUri": null
}
"membersAsMap": {
"ServiceSoftwareOptions": {
"beanStyleGetterMethodName": "getServiceSoftwareOptions",
"beanStyleSetterMethodName": "setServiceSoftwareOptions",
"c2jName": "ServiceSoftwareOptions",
"c2jShape": "ServiceSoftwareOptions",
"defaultConsumerFluentSetterDocumentation": "<p>The current status of the Elasticsearch service software update.</p>\nThis is a convenience that creates an instance of the [@link ServiceSoftwareOptions.Builder] avoiding the need to create one manually via [@link ServiceSoftwareOptions#builder()].\nWhen the [@link Consumer] completes, [@link ServiceSoftwareOptions.Builder#build()] is called immediately and its result is passed to [@link #serviceSoftwareOptions(ServiceSoftwareOptions)].\n@param serviceSoftwareOptions a consumer that will call methods on [@link ServiceSoftwareOptions.Builder]\n@return Returns a reference to this object so that method calls can be chained together.@see #serviceSoftwareOptions(ServiceSoftwareOptions)",
"deprecated": false,
"documentation": "<p>The current status of the Elasticsearch service software update.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "serviceSoftwareOptions",
"fluentSetterDocumentation": "<p>The current status of the Elasticsearch service software update.</p>\n@param serviceSoftwareOptions The current status of the Elasticsearch service software update.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "serviceSoftwareOptions",
"getterDocumentation": "<p>The current status of the Elasticsearch service software update.</p>\n@return The current status of the Elasticsearch service software update.",
"getterModel": {
"returnType": "ServiceSoftwareOptions",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ServiceSoftwareOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ServiceSoftwareOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"setterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
@param
serviceSoftwareOptions The current status of the Elasticsearch service software update.",
"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
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  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
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  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : "<p>The current status of the Elasticsearch service software update.</p>",
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
  "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
  "isBinary" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "name" : "ServiceSoftwareOptions",
  "setterMethodName" : "setServiceSoftwareOptions",
  "setterModel" : {
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    "variableName" : "serviceSoftwareOptions",
    "variableType" : "ServiceSoftwareOptions",
    "documentation" : null,
    "simpleType" : "ServiceSoftwareOptions",
    "variableSetterType" : "ServiceSoftwareOptions"
  },
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "ServiceSoftwareOptions",
    "variableName" : "serviceSoftwareOptions",
    "variableType" : "ServiceSoftwareOptions",
    "documentation" : "<p>The current status of the Elasticsearch service software update.</p>",
    "simpleType" : "ServiceSoftwareOptions",
    "variableSetterType" : "ServiceSoftwareOptions"
  },
  "xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
  "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
  "isBinary" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "name" : "ServiceSoftwareOptions",
  "setterMethodName" : "setServiceSoftwareOptions",
  "setterModel" : {
    "variableDeclarationType" : "ServiceSoftwareOptions",
    "variableName" : "serviceSoftwareOptions",
    "variableType" : "ServiceSoftwareOptions",
    "documentation" : null,
    "simpleType" : "ServiceSoftwareOptions",
    "variableSetterType" : "ServiceSoftwareOptions"
  },
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "ServiceSoftwareOptions",
    "variableName" : "serviceSoftwareOptions",
    "variableType" : "ServiceSoftwareOptions",
    "documentation" : "<p>The current status of the Elasticsearch service software update.</p>",
    "simpleType" : "ServiceSoftwareOptions",
    "variableSetterType" : "ServiceSoftwareOptions"
  },
  "xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
  "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
  "isBinary" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "name" : "ServiceSoftwareOptions",
  "setterMethodName" : "setServiceSoftwareOptions",
  "setterModel" : {
    "variableDeclarationType" : "ServiceSoftwareOptions",
    "variableName" : "serviceSoftwareOptions",
    "variableType" : "ServiceSoftwareOptions",
    "documentation" : null,
    "simpleType" : "ServiceSoftwareOptions",
    "variableSetterType" : "ServiceSoftwareOptions"
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  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "ServiceSoftwareOptions",
    "variableName" : "serviceSoftwareOptions",
    "variableType" : "ServiceSoftwareOptions",
    "documentation" : "<p>The current status of the Elasticsearch service software update.</p>",
    "simpleType" : "ServiceSoftwareOptions",
    "variableSetterType" : "ServiceSoftwareOptions"
  },
  "xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
  "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
  "isBinary" : false,
"beanStyleSetterMethodName" : "setServiceSoftwareOptions",
"c2jName" : "ServiceSoftwareOptions",
"c2jShape" : "ServiceSoftwareOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.
This is a convenience that creates an instance of the `{ @link ServiceSoftwareOptions.Builder}
avoiding the need to create one manually via `{ @link ServiceSoftwareOptions#builder()}.\n\nWhen the `{ @link Consumer}
completes, `{ @link ServiceSoftwareOptions.Builder#build()} is called immediately and its result is passed to `{ @link #serviceSoftwareOptions(ServiceSoftwareOptions)}.\n\n@param serviceSoftwareOptions a consumer that will call methods on `{ @link ServiceSoftwareOptions.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #serviceSoftwareOptions(ServiceSoftwareOptions)",
"deprecated" : false,
"documentation" : "<p>The current status of the Elasticsearch service software update.\</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "serviceSoftwareOptions",
"fluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.\n</p>\n\n@param serviceSoftwareOptions The current status of the Elasticsearch service software update.\n\n@return Returns a reference to this object so that method calls can be chained together.\n
"fluentSetterMethodName" : "serviceSoftwareOptions",
"getterDocumentation" : "<p>The current status of the Elasticsearch service software update.\n\n\n@return The current status of the Elasticsearch service software update.\n",
"getterModel" : {
  "returnType" : "ServiceSoftwareOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ServiceSoftwareOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ServiceSoftwareOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"setterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p>
@param serviceSoftwareOptions The current status of the Elasticsearch service software update.",
"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
"variableDeclarationType" : "ServiceSoftwareOptions",
"variableName" : "serviceSoftwareOptions",
"variableType" : "ServiceSoftwareOptions",
"documentation" : null,
"simpleType" : "ServiceSoftwareOptions",
"variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ServiceSoftwareOptions",
"variableName" : "serviceSoftwareOptions",
"variableType" : "ServiceSoftwareOptions",
"documentation" : "<p>The current status of the Elasticsearch service software update.</p>
",
"simpleType" : "ServiceSoftwareOptions",
"variableSetterType" : "ServiceSoftwareOptions"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : null,
"shapeName" : "CancelElasticsearchServiceSoftwareUpdateResponse",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "CancelElasticsearchServiceSoftwareUpdateResponse",
"variableName" : "cancelElasticsearchServiceSoftwareUpdateResponse",
"variableType" : "CancelElasticsearchServiceSoftwareUpdateResponse",
"documentation" : null,
"simpleType" : "CancelElasticsearchServiceSoftwareUpdateResponse",
"variableSetterType" : "CancelElasticsearchServiceSoftwareUpdateResponse"
},
"wrapper" : false
},
"CognitoOptions" : {
"c2jName" : "CognitoOptions",
"customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [
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      "beanStyleSetterMethodName" : "setEnabled",
      "c2jName" : "Enabled",
      "c2jShape" : "Boolean",
      "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
      This is a convenience that creates an instance of the <code>{@link Boolean.Builder}</code> avoiding the need to create one manually via <code>{@link Boolean#builder()}</code>. When the <code>{@link Consumer}</code> completes, <code>{@link Boolean.Builder#build()}</code> is called immediately and its result is passed to <code>{@link #enabled(Boolean)}</code>. Enables a consumer that will call methods on <code>{@link Boolean.Builder}</code>.<p>
      @return Returns a reference to this object so that method calls can be chained together.<p>
      @see #enabled(Boolean)",
      "deprecated" : false,
      "documentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>",
      "enumType" : null,
      "eventHeader" : false,
      "eventPayload" : false,
      "fluentEnumGetterMethodName" : null,
      "fluentEnumSetterMethodName" : null,
      "fluentGetterMethodName" : "enabled",
      "fluentSetterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
      @return Returns a reference to this object so that method calls can be chained together."",
      "fluentSetterMethodName" : "enabled",
      "getterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
      @return Specifies the option to enable Cognito for Kibana authentication.",
    },
"getterModel": {
  "returnType": "Boolean",
  "documentation": null
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  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "Enabled",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "Enabled",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
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"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "Enabled",
"setterDocumentation": "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
@param enabled Specifies the option to enable Cognito for Kibana authentication."
,"setterMethodName": "setEnabled",
"setterModel": {
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  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,
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"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "enabled",
  "variableType": "Boolean",
  "documentation": "<p>Specifies the option to enable Cognito for Kibana authentication.</p>"
"variableSetterType" : "Boolean",
},
"xmlnsNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getUserPoolId",
"beanStyleSetterMethodName" : "setUserPoolId",
"c2jName" : "UserPoolId",
"c2jShape" : "UserPoolId",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #userPoolId(String)\}.\n\n@param userPoolId a consumer that will call methods on \{@link String.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #userPoolId(String)",
"deprecated" : false,
"documentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "userPoolId",
"fluentSetterDocumentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@param userPoolId Specifies the Cognito user pool ID for Kibana authentication.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "userPoolId",
"getterDocumentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>\n\n@return\nSpecifies the Cognito user pool ID for Kibana authentication."

getterModel" : {
"returnType" : "String",
"documentation" : null
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"http" : {
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"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UserPoolId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UserPoolId",
"uri" : false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "UserPoolId",
"setterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@param userPoolId Specifies the Cognito user pool ID for Kibana authentication.",
"setterMethodName": "setUserPoolId",
"setterModel": {
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  "variableName": "userPoolId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "userPoolId",
  "variableType": "String",
  "documentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
{}
"beanStyleGetterMethodName": "getIdentityPoolId",
"beanStyleSetterMethodName": "setIdentityPoolId",
"c2jName": "IdentityPoolId",
"c2jShape": "IdentityPoolId",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #identityPoolId(String)}.
@param identityPoolId a consumer that will call methods on { @link String.Builder}
@see #identityPoolId(String)",
"deprecated": false,
"documentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "identityPoolId",
"fluentSetterDocumentation" : "Specifies the Cognito identity pool ID for Kibana authentication.\n\n@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.\n\n@return Returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName" : "identityPoolId",
"getterDocumentation" : "Specifies the Cognito identity pool ID for Kibana authentication.\n\n@return Specifies the Cognito identity pool ID for Kibana authentication."

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
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  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "IdentityPoolId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "IdentityPoolId",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "IdentityPoolId",
"setterDocumentation" : "Specifies the Cognito identity pool ID for Kibana authentication.\n\n@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.\n\n@return Specifies the Cognito identity pool ID for Kibana authentication."

"setterMethodName" : "setIdentityPoolId",
"setterModel" : {
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  "variableName" : "identityPoolId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"  
  
}
"simple": true,
"timestampFormat": null,
"variable": {
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  "variableName": "identityPoolId",
  "variableType": "String",
  "documentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNamespaceUri": null
},

"beanStyleGetterMethodName": "getRoleArn",
"beanStyleSetterMethodName": "setRoleArn",
"c2jName": "RoleArn",
"c2jShape": "RoleArn",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #roleArn(String)}.\n\n@see #roleArn(String)\n\n<dl class="deprecated">
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  <dd>false</dd>
</dl>
\n<dl class="documentation">
  <dt>documentation</dt>
  <dd>"<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>"</dd>
</dl>
\n<dl class="enumType">
  <dt>enumType</dt>
  <dd>null</dd>
</dl>
\n<dl class="eventHeader">
  <dt>eventHeader</dt>
  <dd>false</dd>
</dl>
\n<dl class="eventPayload">
  <dt>eventPayload</dt>
  <dd>false</dd>
</dl>
\n<dl class="fluentEnumGetterMethodName">
  <dt>fluentEnumGetterMethodName</dt>
  <dd>null</dd>
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\n<dl class="fluentEnumSetterMethodName">
  <dt>fluentEnumSetterMethodName</dt>
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  <dt>fluentGetterMethodName</dt>
  <dd>"roleArn",
  "fluentSetterDocumentation": "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.\n\n<dl class="deprecated">
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  <dd>false</dd>
</dl>
\n<dl class="documentation">
  <dt>documentation</dt>
  <dd>"<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>"</dd>
</dl>
\n<dl class="getterModel">
  <dt>getterModel</dt>
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    "returnType": "String",
    "documentation": null
  },
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    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.

@method setRoleArn

Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.

```java
public void setRoleArn(String roleArn) {
    this.roleArn = roleArn;
}
```

Simple setter method.

```java
public String getRoleArn() {
    return roleArn;
}
```

Simple getter method.

```java
public boolean isEnabled() {
    return enabled;
}
```

Simple boolean accessor method.

```java
public void enable() {
    enabled = true;
}
```

Simple boolean accessor method.

"beanStyleSetterMethodName" : "setEnabled",
"c2jName" : "Enabled",
"c2jShape" : "Boolean",
"defaultValueSessionDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #setEnabled(Boolean)}.<br/>
@return Returns a reference to this object so that method calls can be chained together.<br/>
@see #setEnabled(Boolean)",
"deprecated" : false,
"documentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
@param enabled a consumer that will call methods on {@link Boolean.Builder}<br/>
@return Returns a reference to this object so that method calls can be chained together.<br/>
@see #setEnabled(Boolean)".
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "Enabled",
"setterDocumentation": "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
@p<br/>
@param enabled Specifies the option to enable Cognito for Kibana authentication."
,"setterMethodName": "setEnabled",
"setterModel": {
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    "variableName": "enabled",
    "variableType": "Boolean",
    "documentation": null,
    "simpleType": "Boolean",
    "variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "Boolean",
    "variableName": "enabled",
    "variableType": "Boolean",
    "documentation": null,
    "simpleType": "Boolean",
    "variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
},
"IdentityPoolId": {
    "beanStyleGetterMethodName": "getIdentityPoolId",
    "beanStyleSetterMethodName": "setIdentityPoolId",
    "c2jName": "IdentityPoolId",
    "c2jShape": "IdentityPoolId",
    "defaultConsumerFluentSetterDocumentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@p
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #identityPoolId(String)}.<p>
@param identityPoolId a consumer that will call methods on {@link String.Builder} that returns a reference to this object so that method calls can be chained together.<p>
@see #identityPoolId(String)"
,"deprecated": false,
"documentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@p
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "identityPoolId",
"fluentSetterDocumentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
@p
@param identityPoolId Specifies the Cognito identity pool ID for Kibana
authentication.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName": "identityPoolId",

"getterDocumentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>

@return Specifies the Cognito identity pool ID for Kibana authentication.

"getterModel": {
    "returnType": "String",
    "documentation": null
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"http": {
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    "additionalUnmarshallingPath": null,
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    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
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    "marshallLocationName": "IdentityPoolId",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "IdentityPoolId",
    "uri": false
},

"idempotencyToken": false,

"isBinary": false,

"jsonValue": false,

"list": false,

"listModel": null,

"map": false,

"mapModel": null,

"marshallingType": "STRING",

"name": "IdentityPoolId",

"setterDocumentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>

@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.

"setterMethodName": "setIdentityPoolId",

"setterModel": {
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    "variableName": "identityPoolId",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
},

"simple": true,

"timestampFormat": null,

"variable": {
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    "variableName": "identityPoolId",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
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"variableName" : "identityPoolId",
"variableType" : "String",
"documentation" : "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"RoleArn" : {
"beanStyleGetterMethodName" : "getRoleArn",
"beanStyleSetterMethodName" : "setRoleArn",
"c2jName" : "RoleArn",
"c2jShape" : "RoleArn",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>
This is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create one manually via \{ @link String#builder() \}. \n\nWhen the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #roleArn(String) \}. \n\n@see #roleArn(String)",
"deprecated" : false,
"documentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "roleArn",
"fluentSetterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>
\n@param roleArn Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.
@return Returns a reference to this object so that method calls can be chained together.
\n@see #roleArn(String)",
"getterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>
\n@return Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.
\n@see #roleArn(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
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"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RoleArn",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RoleArn",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "RoleArn",
"setterDocumentation" : "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>
@param roleArn Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.",
"setterMethodName" : "setRoleArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "roleArn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "roleArn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UserPoolId" : {
  "beanStyleGetterMethodName" : "getUserPoolId",
  "beanStyleSetterMethodName" : "setUserPoolId",
  "c2jName" : "UserPoolId",
  "c2jShape" : "UserPoolId",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Cognito user pool ID for Kibana resources.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
authentication.<p>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #userPoolId(String)}. @param userPoolId a consumer that will call methods on {@link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #userPoolId(String)
"deprecated": false,
"documentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "userPoolId",
"fluentSetterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@param userPoolId Specifies the Cognito user pool ID for Kibana authentication.
@return Returns a reference to this object so that method calls can be chained together."
,"fluentSetterMethodName": "userPoolId",
"getterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@return Specifies the Cognito user pool ID for Kibana authentication.
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "UserPoolId",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "UserPoolId",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "UserPoolId"}
"setterDocumentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@param userPoolId Specifies the Cognito user pool ID for Kibana authentication.",
"setterMethodName" : "setUserPoolId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "userPoolId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "userPoolId",
  "variableType" : "String",
  "documentation" : "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getEnabled",
    "beanStyleSetterMethodName" : "setEnabled",
    "c2jName" : "Enabled",
    "c2jShape" : "Boolean",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #enabled(Boolean)}.
@param enabled a consumer that will call methods on {@link Boolean.Builder} return Returns a reference to this object so that method calls can be chained together.: @see #enabled(Boolean)",
"deprecated" : false,
"documentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "enabled",
"fluentSetterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
@param enabled Specifies the option to enable Cognito for Kibana authentication.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "enabled",
"getterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>
@return
Specifies the option to enable Cognito for Kibana authentication.

```javascript
"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Enabled",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Enabled",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "BOOLEAN",

"name" : "Enabled",

"setterDocumentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>

@para

enabled Specifies the option to enable Cognito for Kibana authentication.

"setterMethodName" : "setEnabled",

"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : "<p>Specifies the option to enable Cognito for Kibana authentication.</p>",
}
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
}, {
"beanStyleGetterMethodName": "getUserPoolId",
"beanStyleSetterMethodName": "setUserPoolId",
"c2jName": "UserPoolId",
"c2jShape": "UserPoolId",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String.Builder]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #userPoolId(String)].

When the [link #userPoolId(String)] is called, it returns a reference to this object so that method calls can be chained together.

@deprecation false,
"documentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "userPoolId",
"fluentSetterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@param userPoolId Specifies the Cognito user pool ID for Kibana authentication.
@return Returns a reference to this object so that method calls can be chained together.
@see #userPoolId(String)",
"fluentSetterMethodName": "userPoolId",
"getterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@return Specifies the Cognito user pool ID for Kibana authentication.
@getMethod": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "UserPoolId",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "UserPoolId",
"uri": false
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "UserPoolId",
"setterDocumentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>
@param userPoolId Specifies the Cognito user pool ID for Kibana authentication."

"setterMethodName": "setUserPoolId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "userPoolId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "userPoolId",
  "variableType": "String",
  "documentation": "<p>Specifies the Cognito user pool ID for Kibana authentication.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getIdentityPoolId",
"beanStyleSetterMethodName": "setIdentityPoolId",
"c2jName": "IdentityPoolId",
"c2jShape": "IdentityPoolId",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need
to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link identityPoolId(String)}.

@return Returns a reference to this object so that method calls can be chained together.
@see #identityPoolId(String)"

"deprecated": false,
"documentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "identityPoolId",
"fluentSetterDocumentation": "\n@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName": "identityPoolId",
"getterDocumentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>\n@return Specifies the Cognito identity pool ID for Kibana authentication.\n",
"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "IdentityPoolId",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "IdentityPoolId",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "IdentityPoolId",
"setterDocumentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>\n@param identityPoolId Specifies the Cognito identity pool ID for Kibana authentication.\n",
"setterMethodName": "setIdentityPoolId",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "identityPoolId",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"}
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "identityPoolId",
  "variableType": "String",
  "documentation": "<p>Specifies the Cognito identity pool ID for Kibana authentication.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getRoleArn",
"beanStyleSetterMethodName": "setRoleArn",
"c2jName": "RoleArn",
"c2jShape": "RoleArn",
"defaultValueConsumerFluentSetterDocumentation": "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.\nThis is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()].\nWhen the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [String#roleArn(String)].\n@returns a reference to this object so that method calls can be chained together.\n@see #roleArn(String)",
  "deprecated": false,
  "documentation": "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "roleArn",
  "fluentSetterMethodName": "roleArn",
  "fluentSetterDocumentation": "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.\n@returns a reference to this object so that method calls can be chained together.\n@see #roleArn(String)",
  "getterDocumentation": "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>",
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "RoleArn",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "RoleArn",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"JsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "RoleArn",
"setterDocumentation": "<p>Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.</p>\n@param roleArn Specifies the role ARN that provides Elasticsearch permissions for accessing Cognito resources.",
"setterMethodName": "setRoleArn",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "roleArn",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "roleArn",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null}
"required" : false,
"shapeName" : "CognitoOptions",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : false
},
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"wrapper" : false
},
"CognitoOptionsStatus" : {
  "c2jName" : "CognitoOptionsStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Status of the Cognito options for the specified Elasticsearch domain.</p>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "marshaller" : null,
  "members" : [
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "CognitoOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Cognito options for the specified ElasticSearch domain.</p>\nThis is a convenience that creates an instance of the \{@link CognitoOptions.Builder\} avoiding the need to create one manually via \{@link CognitoOptions#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link CognitoOptions.Builder#build()\} is called immediately and its result is passed to \{@link
#options(CognitoOptions)).\n@param options a consumer that will call methods on { @link CognitoOptions.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(CognitoOptions)

"deprecated" : false,
"documentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Specifies the Cognito options for the specified Elasticsearch domain.",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifications the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "options",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "options",
  "variableType" : "CognitoOptions",
  "documentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
{,
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
  This is a convenience that creates an instance of the { @link OptionStatus.Builder} avoiding the need to create one manually via { @link OptionStatus#builder()}. When the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link #status(OptionStatus)}. @param status a consumer that will call methods on { @link OptionStatus.Builder}@n@return Returns a reference to this object so that method calls can be chained together.@n@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
  @param status Specifies the status of the Cognito options for the specified Elasticsearch domain.@n@return Returns a reference to this object so that method calls can be chained together.”,
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
  @return Specifies the status of the Cognito options for the specified Elasticsearch domain.”,
"getterModel" : {
  "returnType" : "OptionStatus",
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "options",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "options",
  "variableType" : "CognitoOptions",
  "documentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
}
"setterDocumentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>\\n@param status Specifies the status of the Cognito options for the specified Elasticsearch domain.\\n",
"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>\\n",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;Specifies the Cognito options for the specified Elasticsearch domain.&lt;/p&gt;
This is a convenience that creates an instance of the {@link CognitoOptions.Builder} avoiding the need to create one manually via {@link CognitoOptions.Builder#builder()}. When the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to {@link CognitoOptions}. 

@return Returns a reference to this object so that method calls can be chained together.

@see #options(CognitoOptions)",
"deprecated" : false,
"documentation" : "&lt;p&gt;Specifies the Cognito options for the specified Elasticsearch domain.&lt;/p&gt;",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "&lt;p&gt;Specifies the Cognito options for the specified Elasticsearch domain.&lt;/p&gt;
@return Specifies the Cognito options for the specified Elasticsearch domain.

@see #options(CognitoOptions)",
"getterDocumentation" : "&lt;p&gt;Specifies the Cognito options for the specified Elasticsearch domain.&lt;/p&gt;
@return Specifies the Cognito options for the specified Elasticsearch domain.

@see #options(CognitoOptions)",
"getterModel" : {
  "returnType" : "CognitoOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
@param options Specifies the Cognito options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
"variableDeclarationType" : "CognitoOptions",
"variableName" : "options",
"variableType" : "CognitoOptions",
"documentation" : null,
"simpleType" : "CognitoOptions",
"variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "CognitoOptions",
"variableName" : "options",
"variableType" : "CognitoOptions",
"documentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>
", "simpleType" : "CognitoOptions",
"variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
"Status" : {
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link OptionStatus.Builder} avoiding the need to create one manually via { @link OptionStatus#builder()}. When the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link status(OptionStatus)}. When a status a consumer that will call methods on { @link OptionStatus.Builder} returns a reference to this object so that method calls can be chained together. Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the Cognito options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
@return Specifies the status of the Cognito options for the specified Elasticsearch domain."
,"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the Cognito options for the specified Elasticsearch domain."
,"setterMethodName" : "setStatus",
"setterModel" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"forEach" : true,"getterName" : "status","hasSetter" : true,"isNullInsteadOfEmpty" : false,"name" : "status"}}
"variableType" : "OptionStatus",
"documentation" : null,
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [
{
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "CognitoOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain. This is a convenience that creates an instance of the { @link CognitoOptions.Builder} avoiding the need to create one manually via { @link CognitoOptions.Builder#build()}. When the { @link Consumer} completes, { @link CognitoOptions.Builder#build()} is called immediately and its result is passed to { @link #options(CognitoOptions)}.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(CognitoOptions)",
"deprecated" : false,
"documentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.\n@param options Specifies the Cognito options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.\n"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>",
"getterModel" : {
"returnType" : "CognitoOptions",
"documentation" : null
}
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "Options",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "Options",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Options",
"setterDocumentation": "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>\n@param options Specifies the Cognito options for the specified Elasticsearch domain.",
"setterMethodName": "setOptions",
"setterModel": {
  "variableDeclarationType": "CognitoOptions",
  "variableName": "options",
  "variableType": "CognitoOptions",
  "documentation": null,
  "simpleType": "CognitoOptions",
  "variableSetterType": "CognitoOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "CognitoOptions",
  "variableName": "options",
  "variableType": "CognitoOptions",
  "documentation": "<p>Specifies the Cognito options for the specified Elasticsearch domain.</p>",
  "simpleType": "CognitoOptions",
  "variableSetterType": "CognitoOptions"
},
"xmlNameSpaceUri": null


"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain. This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus#builder()}.

When the {@link Consumer} completes, [{@link OptionStatus.Builder#build()}] is called immediately and its result is passed to [{@link OptionStatus.Builder}].

@returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)",
"deprecated": false,
"documentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.\n\n\n\n</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "status",
"fluentSetterDocumentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.\n\n\n\n\n</p>
\n\n\n@returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)",
"getterDocumentation": "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.\n\n\n\n\n</p>
\n\n\n@returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)",
"getterModel": {
  "returnType": "OptionStatus",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "Status",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "Status",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>Specifies the status of the Cognito options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the Cognito options for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "CognitoOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "CognitoOptionsStatus",
  "variableName" : "cognitoOptionsStatus",
  "variableType" : "CognitoOptionsStatus",
  "documentation" : null,
  "simpleType" : "CognitoOptionsStatus",
  "variableSetterType" : "CognitoOptionsStatus"
}
"wrapper": false,
"CompatibleVersionsMap": {
"c2jName": "CompatibleVersionsMap",
"customization": {
  "artificialResultWrapper": null,
  "skipGeneratingMarshaller": false,
  "skipGeneratingModelClass": false,
  "skipGeneratingUnmarshaller": false,
  "staxTargetDepthOffset": 0
},
"deprecated": false,
"documentation": "<p>A map from an <code><a>ElasticsearchVersion</a></code> to a list of compatible <code><a>ElasticsearchVersion</a></code> s to which the domain can be upgraded. </p>",
"enums": null,
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [
  {
    "beanStyleGetterMethodName": "getSourceVersion",
    "beanStyleSetterMethodName": "setSourceVersion",
    "c2jName": "SourceVersion",
    "c2jShape": "ElasticsearchVersionString",
    "defaultConsumerFluentSetterDocumentation": "<p>The current version of Elasticsearch on which a domain is.</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].
When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #sourceVersion(String)].
@see #sourceVersion(String)",
"deprecated": false,
"documentation": "<p>The current version of Elasticsearch on which a domain is.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "sourceVersion",
"fluentSetterDocumentation": "<p>The current version of Elasticsearch on which a domain is.</p>
@see #sourceVersion(String)",
"fluentSetterMethodName": "sourceVersion"}
"getterDocumentation": "<p>The current version of Elasticsearch on which a domain is.\n
@return The current version of Elasticsearch on which a domain is.\n</p>",

"getterModel": {
  "returnType": "String",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "SourceVersion",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "SourceVersion",
  "uri": false
},

"idempotencyToken": false,

"isBinary": false,

"jsonValue": false,

"list": false,

"listModel": null,

"map": false,

"mapModel": null,

"marshallingType": "STRING",

"name": "SourceVersion",

"setterDocumentation": "<p>The current version of Elasticsearch on which a domain is.\n
@param sourceVersion The current version of Elasticsearch on which a domain is.\n</p>\n
@\n
"setterMethodName": "setSourceVersion",

"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "sourceVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},

"simple": true,

"timestampFormat": null,

"variable": {
  "variableDeclarationType": "String",
  "variableName": "sourceVersion",
  "variableType": "String",
  "variableSetterType": "String"}
"documentation": "The current version of Elasticsearch on which a domain is.\</p>",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlnsNamespaceUri": null
},
{
"beanStyleGetterMethodName": "getTargetVersions",
"beanStyleSetterMethodName": "setTargetVersions",
"c2jName": "TargetVersions",
"c2jShape": "ElasticsearchVersionList",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the TargetVersions property for this object.\n\nThis is a convenience that creates an instance of the [\@link List<String>.Builder] avoiding the need to create one manually via {\@link List<String>#builder()}.\n\nWhen the {\@link Consumer} completes, {\@link List<String>.Builder#build()} is called immediately and its result is passed to {\@link #targetVersions(List<String>)}.\n\n@see #targetVersions(List<String>)",
"deprecated": false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "targetVersions",
"fluentSetterDocumentation": "Sets the value of the TargetVersions property for this object.\n\n@param targetVersions The new value for the TargetVersions property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #targetVersions(List<String>)",
"fluentSetterMethodName": "targetVersions",
"getterDocumentation": "Returns the value of the TargetVersions property for this object.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@return The value of the TargetVersions property for this object.\n",
"getterModel": {
"returnType": "java.util.List<String>",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "TargetVersions",
"queryString": false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object.\n\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create
one manually via \{@link String.Builder\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build\}() is called immediately and its result is passed to \{@link #member(String)\}.\n\n@see #member(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n\n@see #member(String)",
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@\param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",

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"templateType" : "java.util.List<String>>
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TargetVersions",
"setterDocumentation" : "Sets the value of the TargetVersions property for this object.
@param
targetVersions The new value for the TargetVersions property for this object."
,"setterMethodName" : "setTargetVersions",
"setterModel" : {
 "variableDeclarationType" : "java.util.List<String>>",
 "variableName" : "targetVersions",
 "variableType" : "java.util.List<String>>",
 "documentation" : null,
 "simpleType" : "List<String>>",
 "variableSetterType" : "java.util.Collection<String>>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "java.util.List<String>>",
 "variableName" : "targetVersions",
 "variableType" : "java.util.List<String>>",
 "documentation" : null,
 "simpleType" : "List<String>>",
 "variableSetterType" : "java.util.Collection<String>>"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
 "SourceVersion" : {
 "beanStyleGetterMethodName" : "getSourceVersion",
 "beanStyleSetterMethodName" : "setSourceVersion",
 "c2jName" : "SourceVersion",
 "c2jShape" : "ElasticsearchVersionString",
 "defaultConsumerFluentSetterDocumentation" : "The current version of Elasticsearch on which a domain is.
@param sourceVersion a consumer that will call methods on @link String.Builder@link String.Builder#build()\nWhen the @link Consumer@link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #sourceVersion(String).\n@return Returns a reference to this object so that method calls can be chained together.\n@see #sourceVersion(String)"
,"deprecated" : false,
 "documentation" : "The current version of Elasticsearch on which a domain is.,</p>";
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "sourceVersion",
"fluentSetterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>\n@param sourceVersion The current version of Elasticsearch on which a domain is.\n@return Returns a reference to this object so that method calls can be chained together.\",
"fluentSetterMethodName" : "sourceVersion",
"getterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>\n@return The current version of Elasticsearch on which a domain is.\",
"getterModel" : {\n    "returnType" : "String",
    "documentation" : null\n},
"http" : {\n    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "SourceVersion",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "SourceVersion",
    "uri" : false\n},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "SourceVersion",
"setterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>\n@param sourceVersion The current version of Elasticsearch on which a domain is.\n@return Returns a reference to this object so that method calls can be chained together.\",
"setterMethodName" : "setSourceVersion",
"setterModel" : {\n    "variableDeclarationType" : "String",
    "variableName" : "sourceVersion",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"\n},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "sourceVersion",
  "variableType" : "String",
  "documentation" : "<p>The current version of Elasticsearch on which a domain is.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"TargetVersions" : {
  "beanStyleGetterMethodName" : "getTargetVersions",
  "beanStyleSetterMethodName" : "setTargetVersions",
  "c2jName" : "TargetVersions",
  "c2jShape" : "ElasticsearchVersionList",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the TargetVersions property for this object.\n\nThis is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}.\n\nWhen the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #targetVersions(List<String>)}.\n\n@see #targetVersions(List<String>)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "targetVersions",
  "fluentSetterDocumentation" : "Sets the value of the TargetVersions property for this object.\n\nThis is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}.\n\nWhen the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #targetVersions(List<String>)}.\n\n@see #targetVersions(List<String>)",
  "getterDocumentation" : "Returns the value of the TargetVersions property for this object.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n\nThe value of the TargetVersions property for this object.\n\n@see #targetVersions(List<String>)",
  "getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
        "beanStyleGetterMethodName" : "getMember",
        "beanStyleSetterMethodName" : "setMember",
        "c2jName" : "member",
        "c2jShape" : "ElasticsearchVersionString",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object."
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "isPayload" : true,
        "isStreaming" : true,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "TargetVersions",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "TargetVersions",
        "uri" : true
    },
    "isBinary" : false,
    "jsonValue" : false,
    "list" : true,
    "listModel" : {
        "implType" : "java.util.ArrayList",
        "interfaceType" : "java.util.List",
        "listMemberModel" : {
            "beanStyleGetterMethodName" : "getMember",
            "beanStyleSetterMethodName" : "setMember",
            "c2jName" : "member",
            "c2jShape" : "ElasticsearchVersionString",
            "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object."
        },
        "http" : {
            "additionalMarshallingPath" : null,
            "isPayload" : true,
            "isStreaming" : true,
            "location" : null,
            "marshallLocation" : "PAYLOAD",
            "marshallLocationName" : "TargetVersions",
            "queryString" : false,
            "statusCode" : false,
            "unmarshallLocationName" : "TargetVersions",
            "uri" : true
        }
    }
}
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.\n@\n\n@param member The new value for the Member property for this object."
,"setterMethodName": "setMember",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlnsSpaceUri": null
},
"memberLocationName": null,
"memberType": "String"
null, "mapModel" : null, "marshallingType" : "LIST", "name" : "TargetVersions", "setterDocumentation" : "Sets the value of the TargetVersions property for this object.

@param targetVersions The new value for the TargetVersions property for this object.", "setterMethodName" : "setTargetVersions", "setterModel" : {
  "variableDeclarationType" : "java.util.List<String>", "variableName" : "targetVersions", "variableType" : "java.util.List<String>", "documentation" : null, "simpleType" : "List<String>", "variableSetterType" : "java.util.Collection<String>", "xmlNameSpaceUri" : null, "nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getSourceVersion", "beanStyleSetterMethodName" : "setSourceVersion", "c2jName" : "SourceVersion", "c2jShape" : "ElasticsearchVersionString", "defaultConsumerFluentSetterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.<\p>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #sourceVersion(String)}.\n@param sourceVersion a consumer that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #sourceVersion(String)", "deprecated" : false,}]}},"map" : false, "memberAdditionalMarshallingPath" : null, "memberAdditionalUnmarshallingPath" : null, "simple" : true, "simpleType" : "String", "templateImplType" : "java.util.ArrayList<String>", "templateType" : "java.util.List<String>" },
"documentation" : "<p>The current version of Elasticsearch on which a domain is.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "SourceVersion",
"fluentSetterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>@param
sourceVersion The current version of Elasticsearch on which a domain is.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "setSourceVersion",
"getterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>@return The current version of Elasticsearch on which a domain is.",
"getterModel" : { 
"returnType" : "String",
"documentation" : null
},
"http" : { 
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SourceVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SourceVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "SourceVersion",
"setterDocumentation" : "<p>The current version of Elasticsearch on which a domain is.</p>@param
sourceVersion The current version of Elasticsearch on which a domain is.",
"setterMethodName" : "setSourceVersion",
"setterModel" : { 
"variableDeclarationType" : "String",
"variableName" : "sourceVersion",
"variableType" : "String"}
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
}
",
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "sourceVersion",
  "variableType" : "String",
  "documentation" : "<p>The current version of Elasticsearch on which a domain is.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{"beanStyleGetterMethodName" : "getTargetVersions",
 "beanStyleSetterMethodName" : "setTargetVersions",
 "c2jName" : "TargetVersions",
 "c2jShape" : "ElasticsearchVersionList",
 "defaultConsumerFluentSetterDocumentation" : "Sets the value of the TargetVersions property for this object.\n
This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()}.\n
When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link #targetVersions(List<String>)}.\n
@see #targetVersions(List<String>)",
 "deprecated" : false,
 "documentation" : "",
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "targetVersions",
 "fluentSetterDocumentation" : "Sets the value of the TargetVersions property for this object.\n
The new value for the TargetVersions property for this object.\n
@see #targetVersions(List<String>)",
 "getterDocumentation" : "Returns the value of the TargetVersions property for this object.\n
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n
The value of the TargetVersions property for this object."
,
 "getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
 },
 "http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ElasticsearchVersionString",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create
one manually via {@link String.Builder()}. When the {@link Consumer} completes, {@link
String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}.
@see #member(String)".
  },
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "getMember",
  "fluentEnumSetterMethodName" : "setMember",
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
The new value for the Member property for this object.
@see #member(String)".
  },
  "getterDocumentation" : "Returns the value of the Member property for this object.
The value of the Member property for this object.
@see #member(String)".
  },
  "getterModel" : {
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TargetVersions",
"setterDocumentation" : "Sets the value of the TargetVersions property for this object.\n\n@param targetVersions The new value for the TargetVersions property for this object.",
"setterMethodName" : "setTargetVersions",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "targetVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "targetVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : "",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
},
"xmlNameSpaceUri" : null}
"variable" : {
    "variableDeclarationType" : "CompatibleVersionsMap",
    "variableName" : "compatibleVersionsMap",
    "variableType" : "CompatibleVersionsMap",
    "documentation" : null,
    "simpleType" : "CompatibleVersionsMap",
    "variableSetterType" : "CompatibleVersionsMap"
},
"wrapper" : false
},
"CreateElasticsearchDomainRequest" : {
    "c2jName" : "CreateElasticsearchDomainRequest",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "",
    "enums" : null,
    "errorCode" : null,
    "event" : false,
    "eventStream" : false,
    "explicitEventPayloadMember" : null,
    "hasHeaderMember" : false,
    "hasPayloadMember" : false,
    "hasStatusCodeMember" : false,
    "hasStreamingMember" : false,
    "httpStatusCode" : null,
    "marshaller" : {
        "action" : "CreateElasticsearchDomain",
        "locationName" : null,
        "requestUri" : "/2015-01-01/es/domain",
        "target" : null,
        "verb" : "POST",
        "xmlNameSpaceUri" : null
    },
    "members" : [
        {
            "beanStyleGetterMethodName" : "getDomainName",
            "beanStyleSetterMethodName" : "setDomainName",
            "c2jName" : "DomainName",
            "c2jShape" : "DomainName",
            "defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and -"
This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.builder()`. When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `domainName(String)` a consumer that will call methods on `String.Builder`.

```java
@link

@see #domainName(String)
```

```java
@deprecated
```

```java
Public The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).

```java
@parameter
```

```java
@chainable
```

```java
@see #domainName(String)
```
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "DomainName",
"setterDocumentation": "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>
@param domainName The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",
"setterMethodName": "setDomainName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getElasticsearchVersion",
"beanStyleSetterMethodName": "setElasticsearchVersion",
"c2jName": "ElasticsearchVersion",
"c2jShape": "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation": "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see &lt;a href="https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains\" target="_blank"&gt;Creating Elasticsearch Domains&lt;/a&gt; in the &lt;i&gt;Amazon Elasticsearch Service Developer Guide&lt;/i&gt;.&lt;/p&gt;&lt;p&gt;This is a convenience that creates an instance of the {@link String.Builder} avoiding
the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #elasticsearchVersion(String)\}.\n@param elasticsearchVersion a consumer that will call methods on \{@link String.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #elasticsearchVersion(String)\n
"deprecated" : false,
"documentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the \(<i>Amazon Elasticsearch Service Developer Guide</i>\).\n
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the \(<i>Amazon Elasticsearch Service Developer Guide</i>\).\n
"getterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the \(<i>Amazon Elasticsearch Service Developer Guide</i>\).\n
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"setterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the &lt;i&gt;Amazon Elasticsearch Service Developer Guide&lt;/i&gt;.&lt;/p&gt;\n@\n@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the &lt;i&gt;Amazon Elasticsearch Service Developer Guide&lt;/i&gt;.,
,"
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the &lt;i&gt;Amazon Elasticsearch Service Developer Guide&lt;/i&gt;.&lt;/p&gt;\n","
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getElasticsearchClusterConfig".
Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.

This is a convenience that creates an instance of the [ElasticsearchClusterConfig.Builder] avoiding the need to create one manually via [ElasticsearchClusterConfig#builder()]. When the [Consumer] completes, [ElasticsearchClusterConfig.Builder#build()] is called immediately and its result is passed to [ElasticsearchClusterConfig(ElasticsearchClusterConfig)].

@return Returns a reference to this object so that method calls can be chained together. @see #elasticsearchClusterConfig(ElasticsearchClusterConfig)
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "ElasticsearchClusterConfig",
"setterDocumentation": "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. 
</p>@param elasticsearchClusterConfig Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. 

"setterMethodName": "setElasticsearchClusterConfig",
"setterModel": {
  "variableDeclarationType": "ElasticsearchClusterConfig",
  "variableName": "elasticsearchClusterConfig",
  "variableType": "ElasticsearchClusterConfig",
  "documentation": null,
  "simpleType": "ElasticsearchClusterConfig",
  "variableSetterType": "ElasticsearchClusterConfig"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ElasticsearchClusterConfig",
  "variableName": "elasticsearchClusterConfig",
  "variableType": "ElasticsearchClusterConfig",
  "documentation": "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. 
</p>
"setterMethodName": "setElasticsearchClusterConfig",
"setterModel": {
  "variableDeclarationType": "ElasticsearchClusterConfig",
  "variableName": "elasticsearchClusterConfig",
  "variableType": "ElasticsearchClusterConfig",
  "documentation": "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. 
</p>
"variableSetterType": "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getEbsOptions",
"beanStyleSetterMethodName": "setEbsOptions",
"c2jName": "EBSOptions",
"c2jShape": "EBSOptions",

"defaultConsumerFluentSetterDocumentation": "<p>Options to enable, disable and specify the type and size of EBS storage volumes. 
</p>@This is a convenience that creates an instance of the { @link EBSOptions.Builder} avoiding the need to create one manually via { @link EBSOptions#builder()}. 

When the { @link Consumer} completes, { @link EBSOptions.Builder#build()} is called immediately and its result is passed to { @link EbsOptions(EBSOptions)}.

@returns a reference to this object so that method calls can be chained together.  

@see EbsOptions(EBSOptions)",
"deprecated": false,
"documentation": "<p>Options to enable, disable and specify the type and size of EBS storage volumes. 
</p>
"enumType": null,
Options to enable, disable and specify the type and size of EBS storage volumes.

```
@param ebsOptions Options to enable, disable and specify the type and size of EBS storage volumes.
@return Returns a reference to this object so that method calls can be chained together.
```

```
@returns {EBSOptions} Options to enable, disable and specify the type and size of EBS storage volumes.
```

```
``
"simpleType": "EBSOptions",
"variableSetterType": "EBSOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EBSOptions",
"variableName": "ebsOptions",
"variableType": "EBSOptions",
"documentation": "<p>Options to enable, disable and specify the type and size of EBS storage volumes.
</p>",
"simpleType": "EBSOptions",
"variableSetterType": "EBSOptions"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getAccessPolicies",
"beanStyleSetterMethodName": "setAccessPolicies",
"c2jName": "AccessPolicies",
"c2jShape": "PolicyDocument",
"defaultConsumerFluentSetterDocumentation": "<p> IAM access policy as a JSON-formatted string.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #accessPolicies(String)}. 

@see #accessPolicies(String)",
"deprecated": false,
"documentation": "<p> IAM access policy as a JSON-formatted string.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "accessPolicies",
"fluentSetterDocumentation": "<p> IAM access policy as a JSON-formatted string.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #accessPolicies(String)}. 

@see #accessPolicies(String)",
"fluentSetterMethodName": "accessPolicies",
"getterDocumentation": "<p> IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.
@see #accessPolicies(String)",
"getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"setterDocumentation" : "<p> IAM access policy as a JSON-formatted string.\n@param accessPolicies
IAM access policy as a JSON-formatted string.\n</p>\n@param accessPolicies",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "accessPolicies",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "accessPolicies",
 "variableType" : "String",
 "documentation" : "<p> IAM access policy as a JSON-formatted string.\n</p>",
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions",
"c2jShape" : "SnapshotOptions"
"defaultConsumerFluentSetterDocumentation": ": <p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>

This is a convenience that creates an instance of the { @link SnapshotOptions.Builder} avoiding the need to create one manually via { @link SnapshotOptions#builder()}. When the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link #snapshotOptions(SnapshotOptions)}. @return Returns a reference to this object so that method calls can be chained together. @see #snapshotOptions(SnapshotOptions)",
"deprecated": false,
"documentation": ": <p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>

When the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link #snapshotOptions(SnapshotOptions)}. @param snapshotOptions a consumer that will call methods on { @link SnapshotOptions.Builder}@return Returns a reference to this object so that method calls can be chained together."
,"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "snapshotOptions",
"fluentSetterDocumentation": ": <p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>

@override Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. @return Returns a reference to this object so that method calls can be chained together."
,"fluentSetterMethodName": "snapshotOptions",
"getterDocumentation": ": <p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>

@override Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.@return Returns a reference to this object so that method calls can be chained together."
,"getterModel": {
 "returnType": "SnapshotOptions",
 "documentation": null
 },
"http": {
 "additionalMarshallingPath": null,
 "additionalUnmarshallingPath": null,
 "flattened": false,
 "greedy": false,
 "header": false,
 "isPayload": false,
 "isStreaming": false,
 "location": null,
 "marshallLocation": "PAYLOAD",
 "marshallLocationName": "SnapshotOptions",
 "queryString": false,
 "statusCode": false,
 "unmarshallLocationName": "SnapshotOptions",
 "uri": false
 },
 idempotencyToken": false,
 "isBinary": false,
 "jsonValue": false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"setterDocumentation" : "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. \n\n@param snapshotOptions Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. \n",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. \n",
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCOptions",
"defaultConsumerFluentSetterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see \n<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in \n<i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n\nThis is a convenience that creates an instance of the \n{@link VPCOptions.Builder} avoiding the need to create one manually via \n{@link VPCOptions#builder()}\n\nWhen the \n{@link Consumer} completes, \n{@link VPCOptions.Builder#build()} is called immediately and its result is passed to \n{@link #vpcOptions(VPCOptions)}\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #vpcOptions(VPCOptions)",
"deprecated" : false,
"documentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see \n<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in \n<i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n\nThis is a convenience that creates an instance of the \n{@link VPCOptions.Builder} avoiding the need to create one manually via \n{@link VPCOptions#builder()}\n\nWhen the \n{@link Consumer} completes, \n{@link VPCOptions.Builder#build()} is called immediately and its result is passed to \n{@link #vpcOptions(VPCOptions)}\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #vpcOptions(VPCOptions)",
"deprecated" : false,
Domains</i> <p>,</p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterMethodName" : "vpcOptions",
"getterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n@return Returns a reference to this object so that method calls can be chained together.\n
"fluentSetterMethodName" : "vpcOptions",
"getterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n@return Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n",
"getterModel" : {
 "returnType" : "VPCOptions",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "VPCOptions",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "VPCOptions",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"setterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

</p>
"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getCognitoOptions",
"beanStyleSetterMethodName" : "setCognitoOptions",
"c2jName" : "CognitoOptions",
"c2jShape" : "CognitoOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.

This is a convenience that creates an instance of the {@link CognitoOptions.Builder} avoiding the need to create one manually via {@link CognitoOptions#builder()}. When the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to {@link #cognitoOptions(CognitoOptions)}.

@see #cognitoOptions(CognitoOptions)

@returns Returns a reference to this object so that method calls can be chained together.

</p>
"defaultConsumerFluentSetterMethodName" : "getCognitoOptions",
"defaultConsumerFluentSetterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"defaultConsumerFluentSetterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.

This is a convenience that creates an instance of the {@link CognitoOptions.Builder} avoiding the need to create one manually via {@link CognitoOptions#builder()}. When the {@link Consumer} completes, the result from calling the function is passed to the function arguments.</p>

This is a convenience that creates an instance of the CognitoOptions.Builder avoiding the need to create one manually via CognitoOptions.Builder#builder(). When the Consumer completes, CognitoOptions.Builder#build() is called immediately and its result is passed to the function arguments. When the Consumer completes, the result from calling the function is passed to the function arguments.

@returns Returns a reference to this object so that method calls can be chained together.

@see #cognitoOptions(CognitoOptions)\n\n</p>
Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html).
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"setterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>
@param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.

"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.

"simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
  "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
  "c2jName" : "EncryptionAtRestOptions",
  "c2jShape" : "EncryptionAtRestOptions",
  "defaultConsumerFluentSetterDocumentation" : "Specifies the Encryption At Rest Options. This is a convenience that creates an instance of the [EncryptionAtRestOptions.Builder] avoiding the need to create one manually via [EncryptionAtRestOptions#builder()]. When the [Consumer] completes, [EncryptionAtRestOptions.Builder#build()] is called immediately and its result is passed to [EncryptionAtRestOptions(EncryptionAtRestOptions)].

@see #encryptionAtRestOptions(EncryptionAtRestOptions)
@deprecated" : false,
  "documentation" : "Specifies the Encryption At Rest Options.

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "encryptionAtRestOptions",
"fluentSetterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>
@param encryptionAtRestOptions Specifies the Encryption At Rest Options.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "encryptionAtRestOptions",
"getterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>
@return Specifies the Encryption At Rest Options.",
"getterModel" : {
"returnType" : "EncryptionAtRestOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "EncryptionAtRestOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EncryptionAtRestOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EncryptionAtRestOptions",
"setterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>
@param encryptionAtRestOptions Specifies the Encryption At Rest Options.",
"setterMethodName" : "setEncryptionAtRestOptions",
"setterModel" : {
"variableDeclarationType" : "EncryptionAtRestOptions",
"variableName" : "encryptionAtRestOptions",
"variableType" : "EncryptionAtRestOptions",
"documentation" : null,
"simpleType" : "EncryptionAtRestOptions",
"variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "EncryptionAtRestOptions",
"variableName" : "encryptionAtRestOptions",
"variableType" : "EncryptionAtRestOptions",
"documentation" : "<p>Specifies the Encryption At Rest Options.</p>",
"simpleType" : "InvocationOptions",
"variableSetterType" : "InvocationOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
"beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
"c2jName" : "NodeToNodeEncryptionOptions",
"c2jShape" : "NodeToNodeEncryptionOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>"This
is a convenience that creates an instance of the {@link NodeToNodeEncryptionOptions.Builder} avoiding the need
to create one manually via {@link NodeToNodeEncryptionOptions#builder()}. When the {@link Consumer}
completes, {@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to
{@link NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)}. @param
nodeToNodeEncryptionOptions a consumer that will call methods on {@link NodeToNodeEncryptionOptions.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #nodeToNodeEncryptionOptions( NodeToNodeEncryptionOptions)",
"deprecated" : false,
"documentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@param
nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@return Specifies the NodeToNodeEncryptionOptions.",
"getterModel" : {
"returnType" : "NodeToNodeEncryptionOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "NodeToNodeEncryptionOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "NodeToNodeEncryptionOptions",
"uri": false,
},
"idempotencyToken": false,
"isBinary": false,
"JsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "NodeToNodeEncryptionOptions",
"setterDocumentation": "<p>Specifies the NodeToNodeEncryptionOptions. </p>@param
nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.",
"setterMethodName": "setNodeToNodeEncryptionOptions",
"setterModel": {
  "variableDeclarationType": "NodeToNodeEncryptionOptions",
  "variableName": "nodeToNodeEncryptionOptions",
  "variableType": "NodeToNodeEncryptionOptions",
  "documentation": null,
  "simpleType": "NodeToNodeEncryptionOptions",
  "variableSetterType": "NodeToNodeEncryptionOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "NodeToNodeEncryptionOptions",
  "variableName": "nodeToNodeEncryptionOptions",
  "variableType": "NodeToNodeEncryptionOptions",
  "documentation": "<p>Specifies the NodeToNodeEncryptionOptions. </p>",
  "simpleType": "NodeToNodeEncryptionOptions",
  "variableSetterType": "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri": null,
},
{"beanStyleGetterMethodName": "getAdvancedOptions",
"beanStyleSetterMethodName": "setAdvancedOptions",
"c2jName": "AdvancedOptions",}
"c2jShape" : "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation" : "Option to allow references to indices in an HTTP request body. Must be \<code>false</code> when configuring access to individual sub-resources. By default, the value is \<code>true</code>. See \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.\\n
This is a convenience that creates an instance of the \{@link Map<String,String>.Builder\} avoiding the need to create one manually via \{@link Map<String,String>#builder()\}.\\n
When the \{@link Consumer\} completes, \{@link Map<String,String>.Builder#build()\} is called immediately and its result is passed to \{@link #advancedOptions(Map<String,String>)\}.\\n
\@param advancedOptions a consumer that will call methods on \{@link Map<String,String>.Builder\]\\n
\@return Returns a reference to this object so that method calls can be chained together.\\n\@see #advancedOptions(Map<String,String>)",
"deprecated" : false,
"documentation" : "Option to allow references to indices in an HTTP request body. Must be \<code>false</code> when configuring access to individual sub-resources. By default, the value is \<code>true</code>. See \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.\\n
This is a convenience that creates an instance of the \{@link Map<String,String>.Builder\} avoiding the need to create one manually via \{@link Map<String,String>#builder()\}.\\n
When the \{@link Consumer\} completes, \{@link Map<String,String>.Builder#build()\} is called immediately and its result is passed to \{@link #advancedOptions(Map<String,String>)\}.\\n
\@param advancedOptions a consumer that will call methods on \{@link Map<String,String>.Builder\]\\n
\@return Returns a reference to this object so that method calls can be chained together.\\n\@see #advancedOptions(Map<String,String>)",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",
"fluentSetterDocumentation" : "Option to allow references to indices in an HTTP request body. Must be \<code>false</code> when configuring access to individual sub-resources. By default, the value is \<code>true</code>. See \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.\\n
This is a convenience that creates an instance of the \{@link Map<String,String>.Builder\} avoiding the need to create one manually via \{@link Map<String,String>#builder()\}.\\n
When the \{@link Consumer\} completes, \{@link Map<String,String>.Builder#build()\} is called immediately and its result is passed to \{@link #advancedOptions(Map<String,String>)\}.\\n
\@param advancedOptions a consumer that will call methods on \{@link Map<String,String>.Builder\]\\n
\@return Returns a reference to this object so that method calls can be chained together.\\n\@see #advancedOptions(Map<String,String>)",
"fluentSetterMethodName" : "advancedOptions",
"getterDocumentation" : "Option to allow references to indices in an HTTP request body. Must be \<code>false</code> when configuring access to individual sub-resources. By default, the value is \<code>true</code>. See \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.\\n
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\\n
\@return Option to allow references to indices in an HTTP request body. Must be \<code>false</code> when configuring access to individual sub-resources. By default, the value is \<code>true</code>. See \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.\\n
\@return Returns a reference to this object so that method calls can be chained together.\\n\@see #advancedOptions(Map<String,String>)",
"getterModel" : {
"returnType" : "java.util.Map<String,String>",
"documentation" : null
"http": {
   "additionalMarshallingPath": null,
   "additionalUnmarshallingPath": null,
   "flattened": false,
   "greedy": false,
   "header": false,
   "isPayload": false,
   "isStreaming": false,
   "location": null,
   "marshallLocation": "PAYLOAD",
   "marshallLocationName": "AdvancedOptions",
   "queryString": false,
   "statusCode": false,
   "unmarshallLocationName": "AdvancedOptions",
   "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"mapModel": null,
"map": true,
"mapModel": {
   "implType": "java.util.HashMap",
   "interfaceType": "java.util.Map",
   "keyLocationName": "key",
   "keyModel": {
      "beanStyleGetterMethodName": "getKey",
      "beanStyleSetterMethodName": "setKey",
      "c2jName": "key",
      "c2jShape": "String",
      "defaultValueSetterDocumentation": "Sets the value of the Key property for this object. This is a convenience that creates an instance of the (String.Builder) avoiding the need to create one manually via (String.Builder). When the (Consumer) completes, (String.Builder#build()) is called immediately and its result is passed to (String).param key a consumer that will call methods on (String.Builder)\n@return Returns a reference to this object so that method calls can be chained together.\n@see \#key(String)",
      "deprecated": false,
      "documentation": "",
      "enumType": null,
      "eventHeader": false,
      "eventPayload": false,
      "fluentEnumGetterMethodName": null,
      "fluentEnumSetterMethodName": null,
      "fluentGetterMethodName": "key",
      "fluentSetterDocumentation": "Sets the value of the Key property for this object.\n@param key The new value for the Key property for this object.\n@return Returns a reference to this object so that method calls can be
chained together.

*getterDocumentation*: "Returns the value of the Key property for this object.

@return The value of the Key property for this object.

*getterModel*: {
    "returnType": "String",
    "documentation": null
},

*http*: {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "key",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "key",
    "uri": false
},

*idempotencyToken*: false,

*isBinary*: false,

*JsonValue*: false,

*list*: false,

*listModel*: null,

*map*: false,

*mapModel*: null,

*marshallingType": "STRING",

*name": "Key",

*setterDocumentation*: "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.

*setterMethodName": "setKey",

*setterModel*: {
    "variableDeclarationType": "String",
    "variableName": "key",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
},

*simple*: true,

*timestampFormat*: null,

*variable*: {
    "variableDeclarationType": "String",

"variableName" : "key",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create one manually via \{ @link String#builder() \}.

When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #value(String) \}.

\param value a consumer that will call methods on \{ @link String.Builder \}.

\@return Returns a reference to this object so that method calls can be chained together.
\@see #value(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

\param value The new value for the Value property for this object.

\@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

\@return The value of the Value property for this object",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",}
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"setterDocumentation" : "<p>Option to allow references to indices in an HTTP request body. Must be false</p> when configuring access to individual sub-resources. By default, the value is true</p>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options">Configuration Advanced Options</a> for more information."}
in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.

```
"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.

```

```
"c2jName" : "LogPublishingOptions",
"c2jShape" : "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

This is a convenience that creates an instance of the [LogPublishingOptions.Builder] avoiding the need to create one manually via [LogPublishingOptions.Builder#builder()].

When the [Consumer] completes, [LogPublishingOptions.Builder#build()] is called immediately and its result is passed to [LogPublishingOptionsAsStrings(Map<String,LogPublishingOption>)].

See [LogPublishingOptionsWithStrings(Map<String,LogPublishingOption>)] for more information.

```

```
"deprecated" : false,
"documentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

```

```
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
```

"fluentEnumGetterMethodName": "logPublishingOptions",
"fluentEnumSetterMethodName": "logPublishingOptions",
"fluentGetterMethodName": "logPublishingOptionsAsStrings",
"fluentSetterDocumentation": "Map of LogType and LogPublishingOption, each containing options to publish a given type of Elasticsearch log. @param logPublishingOptions Map of LogType and LogPublishingOption, each containing options to publish a given type of Elasticsearch log. @return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "logPublishingOptionsWithStrings",
"getterDocumentation": "Map of LogType and LogPublishingOption, each containing options to publish a given type of Elasticsearch log. Attempt to modify the collection returned by this method will result in an UnsupportedOperationException. @return Map of LogType and LogPublishingOption, each containing options to publish a given type of Elasticsearch log."

getterModel": {
  "returnType": "java.util.Map<String,LogPublishingOption>",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "LogPublishingOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "LogPublishingOptions",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": true,
"mapModel": {
  "implType": "java.util.HashMap",
  "interfaceType": "java.util.Map",
  "keyLocationName": "key",
  "keyModel": {
    "beanStyleGetterMethodName": "getKeyAsString",
    "beanStyleSetterMethodName": "setKey",
    "c2jName": "key",
    "c2jShape": "LogType"}
"defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link String.Builder#build()}. The new value for the Key property for this object. Returns a reference to this object so that method calls can be chained together.

@see #key(String)",
"deprecated": false,
"documentation": "",
"enumType": "LogType",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "key",
"fluentEnumSetterMethodName": "key",
"fluentGetterMethodName": "keyAsString",
"fluentSetterDocumentation": "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@see LogType
@return Returns a reference to this object so that method calls can be chained together.

@see LogType",
"fluentSetterMethodName": "key",
"getterDocumentation": "Returns the value of the Key property for this object. If the service returns an enum value that is not available in the current SDK version, {@link #key} will return {@link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #keyAsString}."

@see LogType",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "key",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "key",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object. @param key The new value for the Key property for this object. @see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the {\link LogPublishingOption.Builder} avoiding the need to create one manually via {\link LogPublishingOption#builder()}. When the {\link Consumer} completes, {\link LogPublishingOption.Builder#build()} is called immediately and its result is passed to {\link #value(LogPublishingOption)}. @param value a consumer that will call methods on {\link LogPublishingOption.Builder} \n@returns Returns a reference to this object so that method calls can be chained together. @see #value(LogPublishingOption)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object. @param value The
new value for the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.

    "fluentSetterMethodName" : "value",
    "getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.

    "getterModel" : {
        "returnType" : "LogPublishingOption",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "value",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "value",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
    "map" : false,
    "mapModel" : null,
    "marshallingType" : "SDK_POJO",
    "name" : "Value",
    "setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.

    "setterMethodName" : "setValue",
    "setterModel" : {
        "variableDeclarationType" : "LogPublishingOption",
        "variableName" : "value",
        "variableType" : "LogPublishingOption",
        "documentation" : null,
        "simpleType" : "LogPublishingOption",
        "variableSetterType" : "LogPublishingOption"
    },
    "simple" : false,
    "timestampFormat" : null,
    "variable" : {
}
"variableDeclarationType" : "LogPublishingOption",
"variableName" : "value",
"variableType" : "LogPublishingOption",
"documentation" : "",
"simpleType" : "LogPublishingOption",
"variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"setterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.",
"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : null,
  "simpleType" : "Map<String,LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String,LogPublishingOption>
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
  "simpleType" : "Map<String,LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String,LogPublishingOption>
},
"xmlNameSpaceUri" : null
}],
"membersAsMap" : {
  "AccessPolicies" : {
    "beanStyleGetterMethodName" : "getAccessPolicies",
    "beanStyleSetterMethodName" : "setAccessPolicies",
    "c2jName" : "AccessPolicies",
    "c2jShape" : "PolicyDocument",
    "defaultConsumerFluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>\n    This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create
When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `accessPolicies(String)`.

@return Returns a reference to this object so that method calls can be chained together.

@see #accessPolicies(String)
IAM access policy as a JSON-formatted string.,
setterMethodName" : "setAccessPolicies",
"setterModel" : {
variableDeclarationType" : "String",
"variableName" : "accessPolicies",
"variableType" : "String",
documentation" : null,
simpleType" : "String",
"variableSetterType" : "String"
},
simple" : true,
timestampFormat" : null,
"variable" : {
variableDeclarationType" : "String",
"variableName" : "accessPolicies",
"variableType" : "String",
documentation" : "<p> IAM access policy as a JSON-formatted string.</p>",
simpleType" : "String",
"variableSetterType" : "String"
},
xmlNameSpaceUri" : null
},
"AdvancedOptions" : {
beanStyleGetterMethodName" : "getAdvancedOptions",
beanStyleSetterMethodName" : "setAdvancedOptions",
c2jName" : "AdvancedOptions",
c2jShape" : "AdvancedOptions",
defaultConsumerFluentSetterDocumentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>
This is a convenience that creates an instance of the <link Map<String,String>.Builder> avoiding the need to create one manually via <link Map<String,String>#builder>(). When the <link Consumer> completes, <link Map<String,String>.Builder#build()> is called immediately and its result is passed to <link Map<String,String,#advancedOptions(Map<String,String>)>. a consumer that will call methods on <link Map<String,String>.Builder>.
@deprecated : false,
documentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>";
enumType" : null,
eventHeader" : false,
eventPayload" : false,
fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",
"fluentSetterDocumentation" : "Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.

<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>

@returns Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.

"getterModel" : {
  "returnType" : "java.util.Map<String,String>",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AdvancedOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AdvancedOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}. Return Returns a reference to this object so that method calls can be chained together. See #key(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "key",
    "fluentSetterDocumentation" : "Sets the value of the Key property for this object. The new value for the Key property for this object. Return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "key",
    "getterDocumentation" : "Returns the value of the Key property for this object.",
    "getterModel" : {
      "returnType" : "String",
      "documentation" : null
    },
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "key",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "key",
  }
}
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object."
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.\nThis is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder]. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [String#value(String)].\n\n@deprecated\n\n@value value a consumer that will call methods on [String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #value(String)"
},
"deprecated" : false,
"documentation" : ""}
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "value",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String"}
"documentation": null,
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "value",
  "variableType": "String",
  "documentation": ",",
  "simple": true,
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"entryType": "Map.Entry<String, String>",
"templateType": "java.util.Map<String,String>"
},
"marshallingType": "MAP",
"name": "AdvancedOptions",
"setterDocumentation": "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>
@param advancedOptions Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.",
"setterMethodName": "setAdvancedOptions",
"setterModel": {
  "variableDeclarationType": "java.util.Map<String,String>",
  "variableName": "advancedOptions",
  "variableType": "java.util.Map<String,String>",
  "documentation": null,
  "simple": false,
  "variableSetterType": "java.util.Map<String,String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.Map<String,String>",
  "variableName": "advancedOptions",
  "variableType": "java.util.Map<String,String>",
  "documentation": "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-

This is a convenience that creates an instance of the `{@link CognitoOptions.Builder}` avoiding the need to create one manually via `{@link CognitoOptions#builder()}`. When the `{@link Consumer}` completes, `{@link CognitoOptions.Builder#build()}` is called immediately and its result is passed to `{@link Amazon Cognito Authentication for Kibana}.

When the `{@link Consumer}` completes, `{@link CognitoOptions.Builder#build()}` is called immediately and its result is passed to `{@link Amazon Cognito Authentication for Kibana}

```
@see #cognitoOptions(CognitoOptions)
```

```
@deprecated
```

```
@documentation
```

```
@eventPayload
```

```
@fluentEnumGetterMethodName
```

```
@fluentEnumSetterMethodName
```

```
@fluentGetterMethodName
```

```
@fluentSetterDocumentation
```

```
@getterDocumentation
```

```
@getterModel
```

```
@variableSetterType
```

```
@simpleType
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```
@xmlNameSpaceUri
```

```
@cognitoOptions
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```
@CognitoOptions
```

```
@beanStyleGetterMethodName
```

```
@beanStyleSetterMethodName
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```
@c2jName
```

```
@c2jShape
```

```
@defaultConsumerFluentSetterDocumentation
```

```
@enumType
```

```
@eventHeader
```

```
@xmlNameSpaceUri
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```
@variableSetterType
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@simpleType
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@xmlNameSpaceUri
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@xmlNameSpaceUri
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```
@variableSetterType
```

```
@simpleType
```

```
@xmlNameSpaceUri
```

```
@variableSetterType
```

```
@simpleType
```
Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html).
more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank\"&gt;Amazon Cognito Authentication for Kibana</a>.&lt;/p&gt;

"simpleType" : "CognitoOptions",
"variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
"DomainName" : {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).&lt;/p&gt;\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.\n@see #domainName(String),
"deprecated" : false,
"documentation" : "&lt;p&gt;The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).&lt;/p&gt;",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterMethodName" : "domainName",
"fluentSetterDocumentation" : "&lt;p&gt;The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).&lt;/p&gt;\n@see #domainName(String),
@deprecated"
}"documentation" : "&lt;p&gt;The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).&lt;/p&gt;\n@see #domainName(String),
@getterDocumentation" : "&lt;p&gt;The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).&lt;/p&gt;\n@getterDescription\n@returns The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",
"getterModel" : {
"returnType" : "String",
"documentation" : null
}.
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "DomainName",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "DomainName",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",
"setterMethodName" : "setDomainName",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : "The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).",
}
number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).

This is a convenience that creates an instance of the \{ @link \#ebsOptions(\(EBSOptions\))\} avoiding the need to create one manually via \{ @link \#ebsOptions(\(EBSOptions\#builder(\))\)\}. When the \{ @link \#ebsOptions(\(EBSOptions\))\} completes, \{ @link \#ebsOptions(\(EBSOptions\))\} is called immediately and its result is passed to \{ @link \#ebsOptions(\(EBSOptions\))\}. \(@\)param ebsOptions a consumer that will call methods on \{ @link \#ebsOptions(\(EBSOptions\))\}. \(@\)return

Options to enable, disable and specify the type and size of EBS storage volumes. Options to enable, disable and specify the type and size of EBS storage volumes.

Options to enable, disable and specify the type and size of EBS storage volumes. Options to enable, disable and specify the type and size of EBS storage volumes.
Options to enable, disable and specify the type and size of EBS storage volumes.\n\n@param ebsOptions Options to enable, disable and specify the type and size of EBS storage volumes.\n\nThis is a convenience that creates an instance of the \{@link ElasticsearchClusterConfig.Builder\} avoiding the need to create one manually via \{@link ElasticsearchClusterConfig#builder()\}.\n
When the \{@link Consumer\} completes, \{@link ElasticsearchClusterConfig.Builder#build()\} is called immediately and its result is passed to \{@link...
Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. Returns a reference to this object so that method calls can be chained together.

```java
@link ElasticsearchClusterConfig.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchClusterConfig(ElasticsearchClusterConfig)
```

```
@param elasticsearchClusterConfig a consumer that will call methods on { @link ElasticsearchClusterConfig.Builder }
@require true
@optional true

@deprecated
```

```
@documentation
<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>
```

```
@enumType
null,
```

```
@eventHeader
false,
```

```
@eventPayload
false,
```

```
@fluentEnumGetterMethodName
null,
```

```
@fluentEnumSetterMethodName
null,
```

```
@getterDocumentation
<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. Returns a reference to this object so that method calls can be chained together.

```
@getterModel
{
    "returnType": "ElasticsearchClusterConfig",
    "documentation": null
}
```

```
@http
{
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "ElasticsearchClusterConfig",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "ElasticsearchClusterConfig",
    "uri": false
}
```

```
@idempotencyToken
false,
```

```
@isBinary
false,
```

```
@jsonValue
false,
```

```
@list
false,
```

```
@listModel
null,
```

```
@map
false,
```

```
@mapModel
null,
```

```
@marshallingType
"SDK_POJO",
```
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>. \n\n@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>. \n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>. \n\n@return String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>. \n\n"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchVersion",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"setterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. "1.5" or "2.3". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.</p>

@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain eg. "1.5" or "2.3". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.

"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "elasticsearchVersion",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "elasticsearchVersion",
    "variableType" : "String",
    "documentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. "1.5" or "2.3". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.</p>

    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"EncryptionAtRestOptions" : {
    "beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
    "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
    "c2jName" : "EncryptionAtRestOptions",
    "c2jShape" : "EncryptionAtRestOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>

    This is a convenience that creates an instance of the (@link EncryptionAtRestOptions.Builder) avoiding the need to create one manually via (@link EncryptionAtRestOptions#builder()).\n\n    When the (@link Consumer) completes, (@link EncryptionAtRestOptions.Builder#build()) is called immediately and its result is passed to (@link EncryptionAtRestOptions(EncryptionAtRestOptions))\n\n    a consumer that will call methods on (@link EncryptionAtRestOptions.Builder)\n\n    @return Returns a reference to this object so that method calls can be chained together.\n\n    @see #encryptionAtRestOptions(EncryptionAtRestOptions)",
    "deprecated" : false,
"documentation": "<p>Specifies the Encryption At Rest Options.</p> ",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "encryptionAtRestOptions",
"fluentSetterDocumentation": "<p>Specifies the Encryption At Rest Options.</p>
@param encryptionAtRestOptions Specifies the Encryption At Rest Options.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "encryptionAtRestOptions",
"getterDocumentation": "<p>Specifies the Encryption At Rest Options.</p>
@return Specifies the Encryption At Rest Options.
"getterModel": {
  "returnType": "EncryptionAtRestOptions",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "EncryptionAtRestOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "EncryptionAtRestOptions",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonData": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "EncryptionAtRestOptions",
"setterDocumentation": "<p>Specifies the Encryption At Rest Options.</p>
@param encryptionAtRestOptions Specifies the Encryption At Rest Options.
@return Specifies the Encryption At Rest Options.
"setterMethodName": "setEncryptionAtRestOptions",
"setterModel": {
  "variableDeclarationType": "EncryptionAtRestOptions",
  "variableName": "encryptionAtRestOptions",
}
"variableType" : "EncryptionAtRestOptions",
"documentation" : null,
"simpleType" : "EncryptionAtRestOptions",
"variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" :

"variableDeclarationType" : "EncryptionAtRestOptions",
"variableName" : "encryptionAtRestOptions",
"variableType" : "EncryptionAtRestOptions",
"documentation" : "<p>Specifies the Encryption At Rest Options.</p>
"simpleType" : "EncryptionAtRestOptions",
"variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
},
"LogPublishingOptions" : {
  "beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
  "beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
  "c2jName" : "LogPublishingOptions",
  "c2jShape" : "LogPublishingOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
  \n  This is a convenience that creates an instance of the [@link Map<String,LogPublishingOption>.Builder] avoiding the need to create one manually via [@link Map<String,LogPublishingOption>#builder()].\n  \n  When the [@link Consumer] completes, [@link Map<String,LogPublishingOption>#builder()] is called immediately and its result is passed to [@link #logPublishingOptionsAsStrings(Map<String,LogPublishingOption>)].\n  \n  @param logPublishingOptions a consumer that will call methods on [@link Map<String,LogPublishingOption>.Builder]\n  \n  @return Returns a reference to this object so that method calls can be chained together.\n  @see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)",
  "deprecated" : false,
  "documentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
  \n  Attempts to modify the collection
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
  \n  Attempts to modify the collection
"getterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
  \n  Attempts to modify the collection
"variableType" : "EncryptionAtRestOptions",
"documentation" : null,
"simpleType" : "EncryptionAtRestOptions",
"variableSetterType" : "EncryptionAtRestOptions"}
returned by this method will result in an UnsupportedOperationException.

@return Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

  "getterModel" : {
    "returnType" : "java.util.Map<String,LogPublishingOption>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "LogPublishingOptions",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "LogPublishingOptions",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : true,
  "mapModel" : {
    "implType" : "java.util.HashMap",
    "interfaceType" : "java.util.Map",
    "keyLocationName" : "key",
    "keyModel" : {
      "beanStyleGetterMethodName" : "getKeyAsString",
      "beanStyleSetterMethodName" : "setKey",
      "c2jName" : "key",
      "c2jShape" : "LogType",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

  This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #keyAsString(String)}.

  @param key a consumer that will call methods on {@link String.Builder}

  @return Returns a reference to this object so that method calls can be chained together.

  @see #key(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : "LogType",
    "eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "key",
"fluentEnumSetterMethodName" : "key",
"fluentGetterMethodName" : "keyAsString",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.
@param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.
@see LogType",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.
@if the service returns an enum value that is not available in the current SDK version, \[ @link #key \] will return \[ @link LogType#UNKNOWN_TO_SDK_VERSION \]. The raw value returned by the service is available from \[ @link #keyAsString \].
@return The value of the Key property for this object.
@see LogType",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.
@param Key The new value for the Key property for this object.
@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String"}
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : ",",
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
],
"entryType" : "Map.Entry<String, LogPublishingOption>"},
"templateType": "java.util.Map<String,LogPublishingOption>"},
"marshallingType": "MAP",
"name": "LogPublishingOptions",
"setterDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.",
"setterMethodName": "setLogPublishingOptionsWithStrings",
"setterModel": {
"variableDeclarationType": "java.util.Map<String,LogPublishingOption>",
"variableName": "logPublishingOptions",
"variableType": "java.util.Map<String,LogPublishingOption>",
"documentation": null,
"simpleType": "Map<String,LogPublishingOption>",
"variableSetterType": "java.util.Map<String,LogPublishingOption>"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.Map<String,LogPublishingOption>",
"variableName": "logPublishingOptions",
"variableType": "java.util.Map<String,LogPublishingOption>",
"documentation": null,
"simpleType": "Map<String,LogPublishingOption>",
"variableSetterType": "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri": null
},
"NodeToNodeEncryptionOptions": {
"beanStyleGetterMethodName": "getNodeToNodeEncryptionOptions",
"beanStyleSetterMethodName": "setNodeToNodeEncryptionOptions",
"c2jName": "NodeToNodeEncryptionOptions",
"c2jShape": "NodeToNodeEncryptionOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the NodeToNodeEncryptionOptions.
It is a convenience that creates an instance of the {@link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via {@link NodeToNodeEncryptionOptions#builder()}. When the {@link Consumer} completes, {@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to {@link #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)}.
@param nodeToNodeEncryptionOptions a consumer that will call methods on {@link NodeToNodeEncryptionOptions.Builder}.
@return Returns a reference to this object so that method calls can be chained together.
@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)",
"deprecated": false,
"documentation": "<p>Specifies the NodeToNodeEncryptionOptions.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation": "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@param
nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "nodeToNodeEncryptionOptions",
"getterDocumentation": "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@return Specifies the NodeToNodeEncryptionOptions.",
"getterModel": {
"returnType": "NodeToNodeEncryptionOptions",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "NodeToNodeEncryptionOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "NodeToNodeEncryptionOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "NodeToNodeEncryptionOptions",
"setterDocumentation": "<p>Specifies the NodeToNodeEncryptionOptions.</p>
@param
nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.",
"setterMethodName": "setNodeToNodeEncryptionOptions",
"setterModel": {
"variableDeclarationType": "NodeToNodeEncryptionOptions",
"variableName": "nodeToNodeEncryptionOptions",
"variableType": "NodeToNodeEncryptionOptions",
"documentation": null,
"simpleType": "NodeToNodeEncryptionOptions"}
"variableSetterType" : "NodeToNodeEncryptionOptions",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>",
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri" : null
},
"SnapshotOptions" : {
  "beanStyleGetterMethodName" : "getSnapshotOptions",
  "beanStyleSetterMethodName" : "setSnapshotOptions",
  "c2jName" : "SnapshotOptions",
  "c2jShape" : "SnapshotOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>
  \n  This is a convenience that creates an instance of the { @link SnapshotOptions.Builder} avoiding the need to create one manually via { @link SnapshotOptions#builder()}.\n  \n  When the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link SnapshotOptions(SnapshotOptions)}\n  \n  @param snapshotOptions a consumer that will call methods on { @link SnapshotOptions.Builder}\n  @return Returns a reference to this object so that method calls can be chained together.\n  @see #snapshotOptions(SnapshotOptions)",
  "deprecated" : false,
  "documentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "snapshotOptions",
  "fluentSetterDocumentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>
  @param snapshotOptions Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.\n  @return Returns a reference to this object so that method calls can be chained together.\n  
  "fluentSetterMethodname" : "snapshotOptions",
  "getterDocumentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>
  @return Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.\n  "returnType" : "SnapshotOptions",
  "documentation" : null
},
"http" : {  
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "SnapshotOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "SnapshotOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"setterDocumentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>
@param snapshotOptions Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {  
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {  
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : "<p>Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. </p>"
},
"simpleType" : "SnapshotOptions",
"variableSetterType" : "SnapshotOptions"}
"xmlNameSpaceUri": null,
}
"VPCOptions": {
  "beanStyleGetterMethodName": "getVpcOptions",
  "beanStyleSetterMethodName": "setVpcOptions",
  "c2jName": "VPCOptions",
  "c2jShape": "VPCOptions",
  "defaultConsumerFluentSetterDocumentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>. This is a convenience that creates an instance of the {@link VPCOptions.Builder} avoiding the need to create one manually via {@link VPCOptions#builder()}. When the {@link Consumer} completes, {@link VPCOptions.Builder#build()} is called immediately and its result is passed to {@link #vpcOptions(VPCOptions)}. A consumer that will call methods on {@link VPCOptions.Builder} returns a reference to this object so that method calls can be chained together. see #vpcOptions(VPCOptions)",
  "deprecated": false,
  "documentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "vpcOptions",
  "fluentSetterDocumentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>
  </p>",
  "getterDocumentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>
  @return Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>
  @return Returns a reference to this object so that method calls can be chained together.
  ",
  "getterModel": {
    "returnType": "VPCOptions",
    "documentation": null
  },
  "http": {
    "xmlNameSpaceUri": null
  }
}
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCOptions",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"setterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n</p>\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n",
"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n</p>\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\n"
Creating a VPC</i> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p></i>

```
"simpleType" : "VPCOptions",
"variableSetterType" : "VPCOptions"
},
"xmlNameSpaceUri" : null
}
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}. Returns a reference to this object so that method calls can be chained together.
@param domainName a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
"deprecated" : false,
"documentation" : "The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen)."
,"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen)."
,"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen)."
,"getterModel" : { 
"returnType" : "String",
"documentation" : null
The name of the Elasticsearch domain that you are creating. Domain names are unique across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
across the domains owned by an account within an AWS region. Domain names must start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).

"simpleType" : "String",
"variableSetterType" : "String"
],
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getElasticsearchVersion",
"beanStyleSetterMethodName" : "setElasticsearchVersion",
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultValueFluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.

This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #elasticsearchVersion(String)].

@returns a reference to this object so that method calls can be chained together.

@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)
",
"deprecated" : false,
"documentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.

String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.

@returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.

String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.

@returns a reference to this object so that method calls can be chained together.
",
"getterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.

String of format X.Y to specify version for the Elasticsearch domain eg. \"1.5\" or \"2.3\". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.

@returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)",
"simpleType" : "String",
"variableSetterType" : "String"
Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.

```
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchVersion",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"setterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. "1.5" or "2.3". For more information, see <a href="\"http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html\" target="_blank\">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.",
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
}
```
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : "String of format X.Y to specify version for the Elasticsearch domain eg. "1.5" or "2.3". For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomains" target="_blank">Creating Elasticsearch Domains</a> in the <i>Amazon Elasticsearch Service Developer Guide</i>.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
"beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
"c2jName" : "ElasticsearchClusterConfig",
"c2jShape" : "ElasticsearchClusterConfig",
"defaultConsumerFluentSetterDocumentation" : "Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. This is a convenience that creates an instance of the {@link ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via {@link ElasticsearchClusterConfig#builder()}. When the {@link Consumer} completes, the instance is passed to the {@link ElasticsearchClusterConfig.Builder#build()} method. The result is then passed to the {#link ElasticsearchClusterConfig(ElasticsearchClusterConfig) param elasticsearchClusterConfig a consumer that will call methods on the {#link ElasticsearchClusterConfig.Builder} when the Consumer completes and then returns a reference to this object so that method calls can be chained together. See #elasticsearchClusterConfig(ElasticsearchClusterConfig)",
"deprecated" : false,
"documentation" : "Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterDocumentation" : "Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster."
"getterDocumentation" : "Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster."
"getterModel" : {
  "returnType" : "ElasticsearchClusterConfig",
  "documentation" : null
}.
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "ElasticsearchClusterConfig",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "ElasticsearchClusterConfig",
  "uri": false
},

"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "ElasticsearchClusterConfig",
"setterDocumentation": "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. 
</p>

@param elasticsearchClusterConfig Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.

setterMethodName": "setElasticsearchClusterConfig",

setterModel": {
  "variableDeclarationType": "ElasticsearchClusterConfig",
  "variableName": "elasticsearchClusterConfig",
  "variableType": "ElasticsearchClusterConfig",
  "documentation": null,
  "simpleType": "ElasticsearchClusterConfig",
  "variableSetterType": "ElasticsearchClusterConfig"
},

"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ElasticsearchClusterConfig",
  "variableName": "elasticsearchClusterConfig",
  "variableType": "ElasticsearchClusterConfig",
  "documentation": "<p>Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster. </p>

@param elasticsearchClusterConfig Configuration options for an Elasticsearch domain. Specifies the instance type and number of instances in the domain cluster.

simpleType": "ElasticsearchClusterConfig",
  "variableSetterType": "ElasticsearchClusterConfig"
},

"simple": false,
"xmlNameSpaceUri" : null,
],
"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. </p>This is a convenience that creates an instance of the [@link EBSOptions.Builder] avoiding the need to create one manually via [@link EBSOptions#builder()]. When the [@link Consumer] completes, [@link EBSOptions.Builder#build()] is called immediately and its result is passed to [@link #ebsOptions(EBSOptions)].

@param ebsOptions a consumer that will call methods on [@link EBSOptions.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #ebsOptions(EBSOptions)"
,
"deprecated" : false,
"documentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",
"fluentSetterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. </p>\n\nOptions to enable, disable and specify the type and size of EBS storage volumes.
\n@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethod Name" : "ebsOptions",
"getterDocumentation" : "<p>Options to enable, disable and specify the type and size of EBS storage volumes. </p>\n\nOptions to enable, disable and specify the type and size of EBS storage volumes.
\n@return Returns a reference to this object so that method calls can be chained together.
",
"getterModel" : {
  "returnType" : "EBSOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "EBSOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "EBSOptions",
  "uri" : false
},
"idempotencyToken" : false,
Options to enable, disable and specify the type and size of EBS storage volumes.

```java

// Simple example of setting EBS options
EBSOptions ebsOptions = new EBSOptions();
ebsOptions.setEbsOptions(ebsOptions);
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String#builder()`. When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `accessPolicies(String)` a consumer that will call methods on `String.Builder`. Returns a reference to this object so that method calls can be chained together.

```java

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String#builder()`. When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `accessPolicies(String)` a consumer that will call methods on `String.Builder`. Returns a reference to this object so that method calls can be chained together.

```

"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.,
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.,
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"setterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.,
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "accessPolicies",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
}.
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "accessPolicies",
  "variableType" : "String",
  "documentation" : "IAM access policy as a JSON-formatted string.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions",
"c2jShape" : "SnapshotOptions",
"defaultConsumerFluentSetterDocumentation" : "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. \</p>\nThis is a convenience that creates an instance of the { @link SnapshotOptions.Builder} avoiding the need to create one manually via { @link SnapshotOptions#builder()}.\nWhen the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link #snapshotOptions(SnapshotOptions)}\n\n@param snapshotOptions a consumer that will call methods on { @link SnapshotOptions.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #snapshotOptions(SnapshotOptions)",
"deprecated" : false,
"documentation" : "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. \</p>\n"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "snapshotOptions",
"fluentSetterDocumentation" : "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. \</p>\n@return Returns a reference to this object so that method calls can be chained together.\n"fluentSetterMethodName" : "snapshotOptions",
"getterDocumentation" : "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. \</p>\n@return Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.\n@return Returns a reference to this object so that method calls can be chained together.\n"getterModel" : {
  "returnType" : "SnapshotOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SnapshotOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SnapshotOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"setterDocumentation" : "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. 
@param snapshotOptions Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours.",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : "Option to set time, in UTC format, of the daily automated snapshot. Default value is 0 hours. 
"simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName": "setVpcOptions",
"c2jName": "VPCOptions",
"c2jShape": "VPCOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>

This is a convenience that creates an instance of the [VPCOptions.Builder] avoiding the need to create one manually via [VPCOptions#builder()].
When the [Consumer] completes, [VPCOptions.Builder#build()] is called immediately and its result is passed to a consumer that will call methods on a consumer that will call methods on [VPCOptions.Builder].

@return Returns a reference to this object so that method calls can be chained together.
@see #vpcOptions(VPCOptions)",
"deprecated": false,
"documentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>

"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "vpcOptions",
"fluentSetterDocumentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>

@returns Returns a reference to this object so that method calls can be chained together.
@see #vpcOptions(VPCOptions)",
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "returnType": "VPCOptions",
  "documentation": null
}
Options to specify the subnets and security groups for VPC endpoint. For more information, see [Creating a VPC in VPC Endpoints for Amazon Elasticsearch Service Domains](https://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc) in VPC Endpoints for Amazon Elasticsearch Service Domains.

```

"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"simple" : false,
Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. 

@param cognitoOptions a consumer that will call methods on { @link CognitoOptions.Builder}\n@see #cognitoOptions(CognitoOptions)\n\n@deprecated false, 
    "documentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. 

"enumType" : null, 
"eventHeader" : false, 
"eventPayload" : false, 
"fluentEnumGetterMethodName" : null, 
"fluentEnumSetterMethodName" : null, 
"fluentGetterMethodName" : "cognitoOptions", 
"fluentSetterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. 

@return Returns a reference to this object so that method calls can be chained together.".

"getterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. 

@return Returns a reference to this object so that method calls can be chained together.".

"getterModel" : { 
"returnType" : "CognitoOptions", 
"documentation" : null 
}, 
"http" : { 
"additionalMarshallingPath" : null, 
"additionalUnmarshallingPath" : null, 
"flattened" : false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "CognitoOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "CognitoOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "CognitoOptions",
"setterDocumentation": "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>
@param

cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.
",
"setterMethodName": "setCognitoOptions",
"setterModel": {
  "variableDeclarationType": "CognitoOptions",
  "variableName": "cognitoOptions",
  "variableType": "CognitoOptions",
  "documentation": null,
  "simpleType": "CognitoOptions",
  "variableSetterType": "CognitoOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "CognitoOptions",
  "variableName": "cognitoOptions",
  "variableType": "CognitoOptions",
  "documentation": null,
  "simpleType": "CognitoOptions",
  "variableSetterType": "CognitoOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "CognitoOptions",
  "variableName": "cognitoOptions",
  "variableType": "CognitoOptions",
  "documentation": null,
  "simpleType": "CognitoOptions",
  "variableSetterType": "CognitoOptions"
},
"simple": false,
"xmlnsSpaceUri" : null,
}, {
  "beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
  "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
  "c2jName" : "EncryptionAtRestOptions",
  "c2jShape" : "EncryptionAtRestOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>
This is a convenience that creates an instance of the [@link EncryptionAtRestOptions.Builder] avoiding the need to create one manually via [@link EncryptionAtRestOptions#builder()].
When the [@link Consumer] completes, [@link EncryptionAtRestOptions.Builder#build()] is called immediately and its result is passed to [@link EncryptionAtRestOptions(EncryptionAtRestOptions)].
@n@n@param encryptionAtRestOptions a consumer that will call methods on [@link EncryptionAtRestOptions.Builder]
@n@n@return Returns a reference to this object so that method calls can be chained together.
@n@n@see EncryptionAtRestOptions(EncryptionAtRestOptions)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the Encryption At Rest Options.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "encryptionAtRestOptions",
  "fluentSetterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>
@param encryptionAtRestOptions Specifies the Encryption At Rest Options.
@return Returns a reference to this object so that method calls can be chained together.
@n@n"fluentSetterMethodName" : "encryptionAtRestOptions",
  "getterDocumentation" : "<p>Specifies the Encryption At Rest Options.</p>
@n@n@return Specifies the Encryption At Rest Options.
@n@n@see EncryptionAtRestOptions",
  "getterModel" : {
  "returnType" : "EncryptionAtRestOptions",
  "documentation" : null
},
  "http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "EncryptionAtRestOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "EncryptionAtRestOptions",
  "uri" : false
},
  "idempotencyToken" : false,
"isBinary": false,
"jsonData": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "EncryptionAtRestOptions",
"setterDocumentation": "<p>Specifies the Encryption At Rest Options.<p>\n@\n@param encryptionAtRestOptions Specifies the Encryption At Rest Options.\n",
"setterMethodName": "setEncryptionAtRestOptions",
"setterModel": {
  "variableDeclarationType": "EncryptionAtRestOptions",
  "variableName": "encryptionAtRestOptions",
  "variableType": "EncryptionAtRestOptions",
  "documentation": null,
  "simpleType": "EncryptionAtRestOptions",
  "variableSetterType": "EncryptionAtRestOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EncryptionAtRestOptions",
  "variableName": "encryptionAtRestOptions",
  "variableType": "EncryptionAtRestOptions",
  "documentation": "<p>Specifies the Encryption At Rest Options.<p>",
  "simpleType": "EncryptionAtRestOptions",
  "variableSetterType": "EncryptionAtRestOptions"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getNodeToNodeEncryptionOptions",
"beanStyleSetterMethodName": "setNodeToNodeEncryptionOptions",
"c2jName": "NodeToNodeEncryptionOptions",
"c2jShape": "NodeToNodeEncryptionOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the NodeToNodeEncryptionOptions.<p>
This is a convenience that creates an instance of the \{NodeToNodeEncryptionOptions.Builder\} avoiding the need to create one manually via \{NodeToNodeEncryptionOptions.Builder#builder()\}.\n\nWhen the \{Consumer\} completes, \{NodeToNodeEncryptionOptions.Builder#build()\} is called immediately and its result is passed to \{NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)\}.\n@\n@param nodeToNodeEncryptionOptions a consumer that will call methods on \{NodeToNodeEncryptionOptions.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@\n@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)",
"deprecated": false,
"documentation": "<p>Specifies the NodeToNodeEncryptionOptions.<p>\n",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>@param
nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>@return Specifies the NodeToNodeEncryptionOptions."
"getterModel" : {
  "returnType" : "NodeToNodeEncryptionOptions",
  "documentation" : null
  },
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "NodeToNodeEncryptionOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "NodeToNodeEncryptionOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"setterDocumentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>@param
nodeToNodeEncryptionOptions Specifies the NodeToNodeEncryptionOptions.
@return Specifies the NodeToNodeEncryptionOptions."
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : "<p>Specifies the NodeToNodeEncryptionOptions.</p>",
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getAdvancedOptions",
"beanStyleSetterMethodName" : "setAdvancedOptions",
"c2jName" : "AdvancedOptions",
"c2jShape" : "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createsubresources.html#es-createsubresources-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>

This is a convenience that creates an instance of the { @link Map<String,String>.Builder} avoiding the need to create one manually via { @link Map<String,String>#builder()}.

When the { @link Consumer} completes, { @link Map<String,String>.Builder#build()} is called immediately and its result is passed to { @link #advancedOptions(Map<String,String>)}.<p>@return Returns a reference to this object so that method calls can be chained together.</p>@param advancedOptions a consumer that will call methods on { @link Map<String,String>.Builder}
@return Returns a reference to this object so that method calls can be chained together.<p></p>,
"deprecated" : false,
"documentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createsubresources.html#es-createsubresources-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",
"fluentSetterDocumentation" : "<p> Option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createsubresources.html#es-createsubresources-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>

When the { @link Consumer} completes, { @link Map<String,String>.Builder#build()} is called immediately and its result is passed to { @link #advancedOptions(Map<String,String>)}.<p>@return Returns a reference to this object so that method calls can be chained together.</p>@param advancedOptions a consumer that will call methods on { @link Map<String,String>.Builder}
@return Returns a reference to this object so that method calls can be chained together.<p></p>"
Configuration Advanced Options for more information.

```
@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "advancedOptions",
"getterDocumentation" : "<p> Option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information."

"getterModel" : {
  "returnType" : "java.util.Map<String,String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AdvancedOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AdvancedOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
```
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object. This is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create one manually via \{ @link String#builder() \}. When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #key(String) \}. \n\n@param key a consumer that will call methods on \{ @link String.Builder \}\n\n@see #key(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
"getterDocumentation" : "Returns the value of the Key property for this object.\n\n@return The value of the Key property for this object."
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING".
"name": "Key",
"setterDocumentation": "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.",
"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "c2jName": "value",
  "c2jShape": "String",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link value(String)\}.\n
@see \#value(String)"
},
"deprecated": false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "value",
"fluentSetterDocumentation": "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.

@returns Returns a reference to this object so that method calls can be chained together.\n@see \#value(String)"
,"fluentSetterMethodName": "value"}
"getterDocumentation" : "Returns the value of the Value property for this object.
@return The value of the Value property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.
@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "value",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "value",
"variableType" : "String"}
Option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See [Configuration Advanced Options](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options) for more information.

```java
public Map<String, String> getAdvancedOptions() {
    return advancedOptions;
}
```

```java
public void setAdvancedOptions(Map<String, String> advancedOptions) {
    this.advancedOptions = advancedOptions;
}
```
"c2jShape": "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Map of <code>LogType</code> and
<code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch
log.</p>

This is a convenience that creates an instance of the {
@link Map<String,LogPublishingOption>.Builder}
avoiding the need to create one manually via {
@link Map<String,LogPublishingOption>#builder()}. When the
{@link Consumer} completes, {
@link Map<String,LogPublishingOption>.Builder#build()} is called immediately
and its result is passed to {
@link #logPublishingOptionsAsStrings(Map<String,LogPublishingOption>)}.

When the
{@link Map<String,LogPublishingOption>.Builder} completes, its result is passed to {
@link #logPublishingOptionsAsStrings(Map<String,LogPublishingOption>)}.

@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)",
"deprecated": false,
"documentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each
containing options to publish a given type of Elasticsearch log.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "logPublishingOptions",
"fluentEnumSetterMethodName": "logPublishingOptions",
"fluentGetterMethodName": "logPublishingOptionsAsStrings",
"fluentSetterDocumentation": "<p>Map of <code>LogType</code> and 
<code>LogPublishingOption</code>, each containing options to publish a given type
of Elasticsearch log.</p>

When the
{@link Map<String,LogPublishingOption>.Builder} completes, its result is passed to {
@link #logPublishingOptionsAsStrings(Map<String,LogPublishingOption>)}.

@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)",
"getterDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each
containing options to publish a given type of Elasticsearch log.

Attempts to modify the collection
returned by this method will result in an UnsupportedOperationException.

@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)",
"getterModel": {
"returnType": "java.util.Map<String,LogPublishingOption>",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "LogPublishingOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "LogPublishingOptions",
"uri": false
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKeyAsString",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "LogType",
    "defaultValueFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }.\nWhen the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link keyAsString(String) } .\n@see #key
\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #key(String)"
   ,
  "deprecated" : false,
  "documentation" : "",
  "enumType" : "LogType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "key",
  "fluentEnumSetterMethodName" : "key",
  "fluentGetterMethodName" : "keyAsString",
  "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\nThe new value for the Key property for this object.\n@see LogType\n\n\n\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see LogType",
  "fluentSetterMethodName" : "key",
  "getterDocumentation" : "Returns the value of the Key property for this object.\nIf the service returns an enum value that is not available in the current SDK version, { @link #key } will return { @link LogType#UNKNOWN_TO_SDK_VERSION } .\nThe raw value returned by the service is available from { @link keyAsString } .\n\n\n@return The value of the Key property for this object.\n@see LogType",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : "null"
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption", "xmlNameSpaceUri" : null
}
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the LogPublishingOption.Builder avoiding the need to create one manually via LogPublishingOption.Builder#build(). When the Consumer completes, LogPublishingOption.Builder#build() is called immediately and its result is passed to LogPublishingOption.Builder

@param value a consumer that will call methods on LogPublishingOption.

@return Returns a reference to this object so that method calls can be chained together.
@see #value(LogPublishingOption)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.",
"getterModel" : {
 "returnType" : "LogPublishingOption",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "value",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "value",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType": "SDK_POJO",
"name": "Value",
"setterDocumentation": "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.",
"setterMethodName": "setValue",
"setterModel": {
  "variableDeclarationType": "LogPublishingOption",
  "variableName": "value",
  "variableType": "LogPublishingOption",
  "documentation": null,
  "simpleType": "LogPublishingOption",
  "variableSetterType": "LogPublishingOption"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "LogPublishingOption",
  "variableName": "value",
  "variableType": "LogPublishingOption",
  "documentation": 
  "variableSetterType": "LogPublishingOption"
},
"xmlNameSpaceUri": null,

"entryType": "Map.Entry<String, LogPublishingOption>",
"templateType": "java.util.Map<String,LogPublishingOption>"
},

"marshallingType": "MAP",
"name": "LogPublishingOptions",
"setterDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>

@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.",
"setterMethodName": "setLogPublishingOptionsWithStrings",
"setterModel": {
  "variableDeclarationType": "java.util.Map<String,LogPublishingOption>",
  "variableName": "logPublishingOptions",
  "variableType": "java.util.Map<String,LogPublishingOption>",
  "documentation": null,
  "simpleType": "Map<String,LogPublishingOption>",
  "variableSetterType": "java.util.Map<String,LogPublishingOption>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.Map<String,LogPublishingOption>",
  "variableName": "logPublishingOptions",
  "variableType": "java.util.Map<String,LogPublishingOption>"
}
"variableType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : "<p>Map of &lt;code&gt;LogType&lt;/code&gt; and &lt;code&gt;LogPublishingOption&lt;/code&gt;, each containing options to publish a given type of Elasticsearch log.&lt;/p&gt;",
"simpleType" : "Map&lt;String,LogPublishingOption&gt;",
"variableSetterType" : "java.util.Map&lt;String,LogPublishingOption&gt;"
},
"xmlNameSpaceUri" : null
} ]},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "CreateElasticsearchDomainRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
"variableDeclarationType" : "CreateElasticsearchDomainRequest",
"variableName" : "createElasticsearchDomainRequest",
"variableType" : "CreateElasticsearchDomainRequest",
"documentation" : null,
"simpleType" : "CreateElasticsearchDomainRequest",
"variableSetterType" : "CreateElasticsearchDomainRequest"
},
"wrapper" : false
},
"CreateElasticsearchDomainResponse" : {
"c2jName" : "CreateElasticsearchDomainResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "&lt;p&gt;The result of a &lt;code&gt;CreateElasticsearchDomain&lt;/code&gt; operation. Contains the status of the newly created Elasticsearch domain.&lt;/p&gt;",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshaller" : null,
"members" : [ {
"beanStyleGetterMethodName" : "getDomainStatus",
"beanStyleSetterMethodName" : "setDomainStatus",
"c2jName" : "DomainStatus",
"c2jShape" : "ElasticsearchDomainStatus",
"defaultConsumerFluentSetterDocumentation" : "The status of the newly created Elasticsearch domain.

This is a convenience that creates an instance of the {@link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via {@link ElasticsearchDomainStatus#builder()}. When the {@link Consumer} completes, {@link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {@link ElasticsearchDomainStatus#domainStatus(ElasticsearchDomainStatus)}.{return} Returns a reference to this object so that method calls can be chained together."

"deprecated" : false,
"documentation" : "The status of the newly created Elasticsearch domain.

@returns {ElasticsearchDomainStatus} The status of the newly created Elasticsearch domain.

@see {ElasticsearchDomainStatus#domainStatus}"

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "The status of the newly created Elasticsearch domain.

@returns {ElasticsearchDomainStatus} The status of the newly created Elasticsearch domain.

@see {ElasticsearchDomainStatus#domainStatus}"

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"setterDocumentation": "<p>The status of the newly created Elasticsearch domain. </p>
@param
domainStatus The status of the newly created Elasticsearch domain.",
"setterMethodName": "setDomainStatus",
"setterModel": {
  "variableDeclarationType": "ElasticsearchDomainStatus",
  "variableName": "domainStatus",
  "variableType": "ElasticsearchDomainStatus",
  "documentation": null,
  "simpleType": "ElasticsearchDomainStatus",
  "variableSetterType": "ElasticsearchDomainStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ElasticsearchDomainStatus",
  "variableName": "domainStatus",
  "variableType": "ElasticsearchDomainStatus",
  "documentation": "<p>The status of the newly created Elasticsearch domain. </p>
  "simpleType": "ElasticsearchDomainStatus",
  "variableSetterType": "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri": null
}
"

"membersAsMap": {
"DomainStatus": {
  "beanStyleGetterMethodName": "getDomainStatus",
  "beanStyleSetterMethodName": "setDomainStatus",
  "c2jName": "DomainStatus",
  "c2jShape": "ElasticsearchDomainStatus",
  "defaultValueConsumerFluentSetterDocumentation": "<p>The status of the newly created Elasticsearch domain. </p>
  "deprecated": false,
  "documentation": "<p>The status of the newly created Elasticsearch domain. </p>
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "<p>The status of the newly created Elasticsearch domain. \n@param domainStatus The status of the newly created Elasticsearch domain. \n@return Returns a reference to this object so that method calls can be chained together.\n"",
"fluentSetterMethodName" : "domainStatus",
"getterDocumentation" : "<p>The status of the newly created Elasticsearch domain. \n@return The status of the newly created Elasticsearch domain.\n",
"getterModel" : {
"returnType" : "ElasticsearchDomainStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"setterDocumentation" : "<p>The status of the newly created Elasticsearch domain. \n@param domainStatus The status of the newly created Elasticsearch domain.\n",
"setterMethodName" : "setDomainStatus",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchDomainStatus",
"variableName" : "domainStatus",
"variableType" : "ElasticsearchDomainStatus",
"documentation" : null,
"simpleType" : "ElasticsearchDomainStatus",
"variableSetterType" : "ElasticsearchDomainStatus"
}
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The status of the newly created Elasticsearch domain. </p>",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainStatus",
  "beanStyleSetterMethodName" : "setDomainStatus",
  "c2jName" : "DomainStatus",
  "c2jShape" : "ElasticsearchDomainStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>The status of the newly created Elasticsearch domain. </p>
  This is a convenience that creates an instance of the { @link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via { @link ElasticsearchDomainStatus#builder()}. When the { @link Consumer} completes, { @link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchDomainStatus.Builder} builder() }. 
  @param domainStatus a consumer that will call methods on { @link ElasticsearchDomainStatus.Builder} builder() 
  @return Returns a reference to this object so that method calls can be chained together. 
  @see #domainStatus(ElasticsearchDomainStatus)",
  "deprecated" : false,
  "documentation" : "<p>The status of the newly created Elasticsearch domain. </p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainStatus",
  "fluentSetterMethodName" : "domainStatus",
  "fluentSetterDocumentation" : "<p>The status of the newly created Elasticsearch domain. </p>
  When the { @link Consumer} completes, { @link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchDomainStatus.Builder} builder() }. 
  @param domainStatus a consumer that will call methods on { @link ElasticsearchDomainStatus.Builder} builder() 
  @return Returns a reference to this object so that method calls can be chained together. 
  @see #domainStatus(ElasticsearchDomainStatus)",
  "getterDocumentation" : "<p>The status of the newly created Elasticsearch domain. </p>
  The status of the newly created Elasticsearch domain. 
  @return Returns a reference to this object so that method calls can be chained together. 
  @see #domainStatus(ElasticsearchDomainStatus)",
  "getterModel" : {
    "returnType" : "ElasticsearchDomainStatus",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"setterDocumentation" : "<p>The status of the newly created Elasticsearch domain. </p>
@param domainStatus The status of the newly created Elasticsearch domain.",
"setterMethodName" : "setDomainStatus",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "&lt;p&gt;The status of the newly created Elasticsearch domain. &lt;/p&gt;",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlnsNamespaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "CreateElasticsearchDomainResponse",
"simpleMethod" : false,
"unmarshaller" : { 
  "flattened" : false,  
  "resultWrapper" : null 
},  
"variable" : {  
  "variableDeclarationType" : "CreateElasticsearchDomainResponse",  
  "variableName" : "createElasticsearchDomainResponse",  
  "variableType" : "CreateElasticsearchDomainResponse",  
  "documentation" : null,  
  "simpleType" : "CreateElasticsearchDomainResponse",  
  "variableSetterType" : "CreateElasticsearchDomainResponse" 
},  
"wrapper" : false 
},  
"DeleteElasticsearchDomainRequest" : {  
  "c2jName" : "DeleteElasticsearchDomainRequest",  
  "customization" : {  
    "artificialResultWrapper" : null,  
    "skipGeneratingMarshaller" : false,  
    "skipGeneratingModelClass" : false,  
    "skipGeneratingUnmarshaller" : false,  
    "staxTargetDepthOffset" : 0  
  },  
  "deprecated" : false,  
  "documentation" : "Container for the parameters to the <code>DeleteElasticsearchDomain</code> operation. Specifies the name of the Elasticsearch domain that you want to delete."  
},  
"enums" : null,  
"errorCode" : null,  
"event" : false,  
"eventStream" : false,  
"explicitEventPayloadMember" : null,  
"hasHeaderMember" : false,  
"hasPayloadMember" : false,  
"hasStatusCodeMember" : false,  
"hasStreamingMember" : false,  
"httpStatusCode" : null,  
"marshaller" : {  
  "action" : "DeleteElasticsearchDomain",  
  "locationName" : null,  
  "requestUri" : "/2015-01-01/es/domain/{DomainName}",  
  "target" : null,  
  "verb" : "DELETE",  
  "xmlNameSpaceUri" : null 
},  
"members" : {  
  "beanStyleGetterMethodName" : "getDomainName",  
  "beanStyleSetterMethodName" : "setDomainName",  
  "c2jName" : "DomainName" 
}
The name of the Elasticsearch domain that you want to permanently delete.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.

@param domainName a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.

@see #domainName(String)
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "The name of the Elasticsearch domain that you want to permanently delete.\n@param domainName The name of the Elasticsearch domain that you want to permanently delete."
"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "The name of the Elasticsearch domain that you want to permanently delete.
@see #domainName(String)",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
"DomainName" : {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultValueOverrideConsumerFluentSetterDocumentation" : "The name of the Elasticsearch domain that you want to permanently delete.
This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}.
@see #domainName(String)"
"deprecated" : false,
"documentation" : "The name of the Elasticsearch domain that you want to permanently delete.
@see #domainName(String)",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "The name of the Elasticsearch domain that you want to permanently delete.
@see #domainName(String)"}
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "\n<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
\n@return The name of the Elasticsearch domain that you want to permanently delete."
,
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "\n<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
\n@param domainName The name of the Elasticsearch domain that you want to permanently delete."
,
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName"}
"variableType" : "String",
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, the String.Builder#build() method is called immediately and its result is passed to {@link #domainName(String)}. 

@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@param domainName The name of the Elasticsearch domain that you want to permanently delete.
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.
@see #domainName(String)
@deprecated" : false,
"documentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you want to permanently delete.
@see #domainName(String)
@deprecated" : false,
The name of the Elasticsearch domain that you want to permanently delete.

```java
public void setDomainName(String domainName) {
    this.domainName = domainName;
}
```

**DomainName**

- **Type**: `String`
- **Documentation**: The name of the Elasticsearch domain that you want to permanently delete.

**variableDeclarationType**: `String`
"simpleType" : "DeleteElasticsearchDomainRequest",
"variableSetterType" : "DeleteElasticsearchDomainRequest"
},
"wrapper" : false
}
,"DeleteElasticsearchDomainResponse" : {
"c2jName" : "DeleteElasticsearchDomainResponse",
"customization" : {
 "artifactResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthOffset" : 0
 },
 "deprecated" : false,
 "documentation" : "The result of a <code>DeleteElasticsearchDomain</code> request. Contains the status of
the pending deletion, or no status if the domain and all of its resources have been deleted."",
 "enums" : null,
 "errorCode" : null,
 "event" : false,
 "eventStream" : false,
 "explicitEventPayloadMember" : null,
 "hasHeaderMember" : false,
 "hasPayloadMember" : false,
 "hasStreamingMember" : false,
 "httpStatusCode" : null,
 "marshaller" : null,
 "marshalller" : null,
 "members" : {
 "beanStyleGetterMethodName" : "getDomainStatus",
 "beanStyleSetterMethodName" : "setDomainStatus",
 "c2jName" : "DomainStatus",
 "c2jShape" : "ElasticsearchDomainStatus",
 "defaultConsumerFluentSetterDocumentation" : "The status of the Elasticsearch domain being
deleted."",
 "deprecated" : false,
 "documentation" : "The status of the Elasticsearch domain being deleted."",
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "domainStatus",
 "fluentSetterMethodName" : null,
 "httpStatusCode" : null,
 "marshaller" : null,
 "marshalller" : null,
 "marshalller" : null,
 "members" : [
 "beanStyleGetterMethodName" : "getDomainStatus",
 "beanStyleSetterMethodName" : "setDomainStatus",
 "c2jName" : "DomainStatus",
 "c2jShape" : "ElasticsearchDomainStatus",
 "defaultConsumerFluentSetterDocumentation" : "The status of the Elasticsearch domain being
deleted."",
 "deprecated" : false,
 "documentation" : "The status of the Elasticsearch domain being deleted."",
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "domainStatus",
 "fluentSetterMethodName" : null,
 "hasHeaderMember" : false,
 "hasPayloadMember" : false,
 "hasStreamingMember" : false,
 "httpStatusCode" : null,
 "marshaller" : null,
 "marshalller" : null,
 "marshalller" : null,
 "members" : {
 "beanStyleGetterMethodName" : "getDomainStatus",
 "beanStyleSetterMethodName" : "setDomainStatus",
 "c2jName" : "DomainStatus",
 "c2jShape" : "ElasticsearchDomainStatus",
 "defaultConsumerFluentSetterDocumentation" : "The status of the Elasticsearch domain being
deleted."",
 "deprecated" : false,
 "documentation" : "The status of the Elasticsearch domain being deleted."",
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "domainStatus",
 "hasHeaderMember" : false,
 "hasPayloadMember" : false,
 "hasStreamingMember" : false,
 "httpStatusCode" : null,
 "marshaller" : null,
 "marshalller" : null,
 "marshalller" : null,
 "members" : {
 "beanStyleGetterMethodName" : "getDomainStatus",
 "beanStyleSetterMethodName" : "setDomainStatus",
 "c2jName" : "DomainStatus",
 "c2jShape" : "ElasticsearchDomainStatus",
 "defaultConsumerFluentSetterDocumentation" : "The status of the Elasticsearch domain being
deleted."",
 "deprecated" : false,
 "documentation" : "The status of the Elasticsearch domain being deleted."",
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "domainStatus",
 "hasHeaderMember" : false,
 "hasPayloadMember" : false,
 "hasStreamingMember" : false,
 "httpStatusCode" : null,
 "marshaller" : null,
 "marshalller" : null,
 "marshalller" : null,
 "members" : {
 "beanStyleGetterMethodName" : "getDomainStatus",
 "beanStyleSetterMethodName" : "setDomainStatus",
 "c2jName" : "DomainStatus",
 "c2jShape" : "ElasticsearchDomainStatus",
 "defaultConsumerFluentSetterDocumentation" : "The status of the Elasticsearch domain being
deleted."",
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 "documentation" : "The status of the Elasticsearch domain being deleted."",
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 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "domainStatus",
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 "hasPayloadMember" : false,
 "hasStreamingMember" : false,
 "httpStatusCode" : null,
 "marshaller" : null,
 "marshalller" : null,
 "marshalller" : null,
 "members" : {
 "beanStyleGetterMethodName" : "getDomainStatus",
 "beanStyleSetterMethodName" : "setDomainStatus",
 "c2jName" : "DomainStatus",
 "c2jShape" : "ElasticsearchDomainStatus",
 "defaultConsumerFluentSetterDocumentation" : "The status of the Elasticsearch domain being
deleted."",
 "deprecated" : false,
 "documentation" : "The status of the Elasticsearch domain being deleted."",
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
"fluentSetterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>@param domainStatus The status of the Elasticsearch domain being deleted.@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainStatus",
"getterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>@return The status of the Elasticsearch domain being deleted.",
"getterModel" : {
"returnType" : "ElasticsearchDomainStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"setterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>@param domainStatus The status of the Elasticsearch domain being deleted.",
"setterMethodName" : "setDomainStatus",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchDomainStatus",
"variableName" : "domainStatus",
"variableType" : "ElasticsearchDomainStatus",
"documentation" : null,
"simpleType" : "ElasticsearchDomainStatus",
"variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "ElasticsearchDomainStatus",
    "variableName" : "domainStatus",
    "variableType" : "ElasticsearchDomainStatus",
    "documentation" : "The status of the Elasticsearch domain being deleted."
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
    "DomainStatus" : {
        "beanStyleGetterMethodName" : "getDomainStatus",
        "beanStyleSetterMethodName" : "setDomainStatus",
        "c2jName" : "DomainStatus",
        "c2jShape" : "ElasticsearchDomainStatus",
        "defaultConsumerFluentSetterDocumentation" : "The status of the Elasticsearch domain being deleted.
The status of the Elasticsearch domain being deleted.
When the {link ElasticsearchDomainStatus.Builder} avoids the need to create one manually via {link ElasticsearchDomainStatus.Builder#builder}.
When the {link ElasticsearchDomainStatus.Builder#build} is called immediately and its result is
passed to {link ElasticsearchDomainStatus#domainStatus} a consumer that will call
methods on {link ElasticsearchDomainStatus.Builder} and return
Returns a reference to this object so that method
calls can be chained together.
@see domainStatus(ElasticsearchDomainStatus)
",
    "deprecated" : false,
    "documentation" : "The status of the Elasticsearch domain being deleted."
},
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "The status of the Elasticsearch domain being deleted.
The status of the Elasticsearch domain being deleted.
Returns a reference to this object so that method
calls can be chained together.
@see domainStatus(ElasticsearchDomainStatus)
",
    "fluentSetterMethodName" : "domainStatus",
    "getterDocumentation" : "The status of the Elasticsearch domain being deleted.
The status of the Elasticsearch domain being deleted.
@return The status of the Elasticsearch domain being deleted.
",
    "getterModel" : {
        "returnType" : "ElasticsearchDomainStatus",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
    }
}
The status of the Elasticsearch domain being deleted.

**setterMethodName**: `setDomainStatus`,

**setterModel**: 

```java
{ 
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
}
```

**xmlNameSpaceUri**: `null`

```
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainStatus",
"queryString" : false,
"statusCode" : false,
"marshallLocationName" : "DomainStatus",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"setterDocumentation" : "The status of the Elasticsearch domain being deleted.",
"setterMethodName" : "setDomainStatus",
"setterModel" : 

```java
{ 
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "The status of the Elasticsearch domain being deleted.",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
}
```

**xmlNameSpaceUri**: `null`
This is a convenience that creates an instance of the [ElasticsearchDomainStatus.Builder](#) avoiding the need to create one manually via [ElasticsearchDomainStatus#builder()](#).

When the [Consumer](#) completes, [ElasticsearchDomainStatus.Builder#build()](#) is called immediately and its result is passed to [ElasticsearchDomainStatus(ElasticsearchDomainStatus)](#). `param domainStatus a consumer that will call methods on [ElasticsearchDomainStatus.Builder](#)`.

@return Returns a reference to this object so that method calls can be chained together.

@see ElasticsearchDomainStatus

### ElasticsearchDomainStatus

The status of the Elasticsearch domain being deleted.

```java
public interface ElasticsearchDomainStatus {
    // The status of the Elasticsearch domain being deleted.
    ElasticsearchDomainStatusStatus domainStatus();
}
```

```java
public interface ElasticsearchDomainStatus.Builder {
    // The status of the Elasticsearch domain being deleted.
    ElasticsearchDomainStatusStatus.Builder domainStatus(ElasticsearchDomainStatusStatus domainStatus);
}
```

```
public interface ElasticsearchDomainStatusStatus {
    // The status of the Elasticsearch domain being deleted.
    String getStatus();
}
```

### ElasticsearchDomainStatusBuilder

The status of the Elasticsearch domain being deleted.

```java
public interface ElasticsearchDomainStatusBuilder {
    // The status of the Elasticsearch domain being deleted.
    ElasticsearchDomainStatusStatus.Builder domainStatus(ElasticsearchDomainStatusStatus domainStatus);
}
```

```
public interface ElasticsearchDomainStatusStatus {
    // The status of the Elasticsearch domain being deleted.
    String getStatus();
}
```
"name" : "DomainStatus",
"setterDocumentation" : "<p>The status of the Elasticsearch domain being deleted.</p>
@param domainStatus
The status of the Elasticsearch domain being deleted.",
"setterMethodName" : "setDomainStatus",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchDomainStatus",
"variableName" : "domainStatus",
"variableType" : "ElasticsearchDomainStatus",
"documentation" : null,
"simpleType" : "ElasticsearchDomainStatus",
"variable SetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ElasticsearchDomainStatus",
"variableName" : "domainStatus",
"variableType" : "ElasticsearchDomainStatus",
"documentation" : null,
"simpleType" : "ElasticsearchDomainStatus",
"variable SetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DeleteElasticsearchDomainResponse",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "DeleteElasticsearchDomainResponse",
"variableName" : "deleteElasticsearchDomainResponse",
"variableType" : "DeleteElasticsearchDomainResponse",
"documentation" : null,
"simpleType" : "DeleteElasticsearchDomainResponse",
"variable SetterType" : "DeleteElasticsearchDomainResponse"
},
"wrapper" : false
},
"DeleteElasticsearchServiceRoleRequest" : {
"c2jName" : "DeleteElasticsearchServiceRoleRequest",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : null,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : { 
  "action" : "DeleteElasticsearchServiceRole",
  "locationName" : null,
  "requestUri" : "/2015-01-01/es/role",
  "target" : null,
  "verb" : "DELETE",
  "xmlNameSpaceUri" : null
 },
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DeleteElasticsearchServiceRoleRequest",
"simpleMethod" : true,
"unmarshaller" : null,
"variable" : { 
  "variableDeclarationType" : "DeleteElasticsearchServiceRoleRequest",
  "variableName" : "deleteElasticsearchServiceRoleRequest",
  "variableType" : "DeleteElasticsearchServiceRoleRequest",
  "documentation" : null,
  "simpleType" : "DeleteElasticsearchServiceRoleRequest",
  "variableSetterType" : "DeleteElasticsearchServiceRoleRequest"
 },
"wrapper" : false
}.
"DeleteElasticsearchServiceRoleResponse" : { 
  "c2jName" : "DeleteElasticsearchServiceRoleResponse",
  "customization" : { 
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
"deprecated": false,
"documentation": "",
"enums": [ {
  "name": "PENDING_UPDATE",
  "value": "PENDING_UPDATE"
}, {
  "name": "IN_PROGRESS",
  "value": "IN_PROGRESS"
}, {
  "name": "COMPLETED",
  "value": "COMPLETED"
}, {
  "name": "NOT_ELIGIBLE",
  "value": "NOT_ELIGIBLE"
}, {
  "name": "ELIGIBLE",
  "value": "ELIGIBLE"
} ],
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [ ],
"membersAsMap": { },
"nonStreamingMembers": [ ],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "DeploymentStatus",
"simpleMethod": false,
"unmarshaller": { 
  "flattened": false,
  "resultWrapper": null 
},
"variable": { 
  "variableDeclarationType": "DeploymentStatus",
  "variableName": "deploymentStatus",
  "variableType": "DeploymentStatus",
  "documentation": null,
  "simpleType": "DeploymentStatus",
  "variableSetterType": "DeploymentStatus" 
},

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"wrapper" : false
},
"DescribeElasticsearchDomainConfigRequest" : {
"c2jName" : "DescribeElasticsearchDomainConfigRequest",
"customization" : {
 "artificialResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> Container for the parameters to the <code>DescribeElasticsearchDomainConfig</code> operation. Specifies the domain name for which you want configuration information.</p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
 "action" : "DescribeElasticsearchDomainConfig",
 "locationName" : null,
 "requestUri" : "/2015-01-01/es/domain/{DomainName}/config",
 "target" : null,
 "verb" : "GET",
 "xmlNameSpaceUri" : null
},
"members" : [ {
 "beanStyleGetterMethodName" : "getDomainName",
 "beanStyleSetterMethodName" : "setDomainName",
 "c2jName" : "DomainName",
 "c2jShape" : "DomainName",
 "defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {domainName} a consumer that will call methods on {domainName(String)).\n\n@deprecated\n@see domainName(String)"
},
"deprecated" : false,
"documentation" : "<p>The Elasticsearch domain that you want to get information about.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
@param domainName The Elasticsearch domain that you want to get information about.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
@return The Elasticsearch domain that you want to get information about.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
@param domainName The Elasticsearch domain that you want to get information about.
@return The Elasticsearch domain that you want to get information about.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "<p>The Elasticsearch domain that you want to get information about.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
],
"membersAsMap": {
  "DomainName": {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultValueSetterDocumentation": "<p>The Elasticsearch domain that you want to get information about.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via `{@link String.Builder}`. When the `{@link Consumer} completes, `{@link String.Builder#build()} is called immediately and its result is passed to `{@link #domainName(String)}`. Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
  "deprecated": false,
  "documentation": "<p>The Elasticsearch domain that you want to get information about.</p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "domainName",
  "fluentSetterDocumentation": "<p>The Elasticsearch domain that you want to get information about.</p>
@see #domainName(String)",
  "getterDocumentation": "<p>The Elasticsearch domain that you want to get information about.</p>
@see #domainName(String)",
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>\n@param domainName The Elasticsearch domain that you want to get information about.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch domain that you want to get information about.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "setterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>\n@param domainName The Elasticsearch domain that you want to get information about.",
  "setterMethodName" : "setDomainName",
  "setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : "<p>The Elasticsearch domain that you want to get information about.</p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "xmlNameSpaceUri" : null
} ]
"defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link String.Builder#build()}.\n\n@param domainName a consumer that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see domainName(String)\n\n"deprecated" : false,\n"documentation" : "<p>The Elasticsearch domain that you want to get information about.</p>\n"enumType" : null,\n"eventHeader" : false,\n"eventPayload" : false,\n"fluentEnumGetterMethodName" : null,\n"fluentEnumSetterMethodName" : null,\n"fluentGetterMethodName" : "domainName",\n"fluentSetterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>\n@param domainName The Elasticsearch domain that you want to get information about.\n@return Returns a reference to this object so that method calls can be chained together.",\n"fluentSetterMethodName" : "domainName",\n"getterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>\n@return The Elasticsearch domain that you want to get information about.",\n"getterModel" : {\n  "returnType" : "String",\n  "documentation" : null\n},\n"http" : {\n  "additionalMarshallingPath" : null,\n  "additionalUnmarshallingPath" : null,\n  "flattened" : false,\n  "greedy" : false,\n  "header" : false,\n  "isPayload" : false,\n  "isStreaming" : false,\n  "location" : "uri",\n  "marshallLocation" : "PATH",\n  "marshallLocationName" : "DomainName",\n  "queryString" : false,\n  "statusCode" : false,\n  "unmarshallLocationName" : "DomainName",\n  "uri" : true\n},\n"idempotencyToken" : false,\n"isBinary" : false,\n"jsonValue" : false,\n"list" : false,\n"listModel" : null,\n"map" : false,\n"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>The Elasticsearch domain that you want to get information about.</p>
@param domainName The Elasticsearch domain that you want to get information about.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch domain that you want to get information about.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "DescribeElasticsearchDomainConfigRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "DescribeElasticsearchDomainConfigRequest",
  "variableName" : "describeElasticsearchDomainConfigRequest",
  "variableType" : "DescribeElasticsearchDomainConfigRequest",
  "documentation" : null,
  "simpleType" : "DescribeElasticsearchDomainConfigRequest",
  "variableSetterType" : "DescribeElasticsearchDomainConfigRequest"
},
"wrapper" : false
},
"DescribeElasticsearchDomainConfigResponse" : {
  "c2jName" : "DescribeElasticsearchDomainConfigResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0,

"deprecated" : false,

"documentation" : "The result of a <code>DescribeElasticsearchDomainConfig</code> request. Contains the configuration information of the requested domain."

"enums" : null,

"errorCode" : null,

"event" : false,

"eventStream" : false,

"explicitEventPayloadMember" : null,

"hasHeaderMember" : false,

"hasPayloadMember" : false,

"hasStatusCodeMember" : false,

"hasStreamingMember" : false,

"httpStatusCode" : null,

"marshaller" : null,

"members" : [ {

"beanStyleGetterMethodName" : "getDomainConfig",

"beanStyleSetterMethodName" : "setDomainConfig",

"c2jName" : "DomainConfig",

"c2jShape" : "ElasticsearchDomainConfig",

"defaultConsumerFluentSetterDocumentation" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request. This is a convenience that creates an instance of the <a href="/docs/api/latest/howto/mapping-types.html">ElasticsearchDomainConfig.Builder</a> avoiding the need to create one manually via <a href="/docs/api/latest/howto/mapping-types.html">ElasticsearchDomainConfig#builder()</a>. When the <a href="/docs/api/latest/howto/mapping-types.html">Consumer</a> completes, <a href="/docs/api/latest/howto/mapping-types.html">ElasticsearchDomainConfig.Builder#build()</a> is called immediately and its result is passed to <a href="/docs/api/latest/howto/mapping-types.html">ElasticsearchDomainConfig</a> a consumer that will call methods on <a href="/docs/api/latest/howto/mapping-types.html">ElasticsearchDomainConfig.Builder#build()</a>.

@see #domainConfig(ElasticsearchDomainConfig)

@get returns a reference to this object so that method calls can be chained together.

@see #domainConfig(ElasticsearchDomainConfig)

"deprecated" : false,

"documentation" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request."

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "domainConfig",

"fluentSetterDocumentation" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request."

@see #domainConfig(ElasticsearchDomainConfig)

@get Returns a reference to this object so that method calls can be chained together.

@see #domainConfig(ElasticsearchDomainConfig)

"getterDocumentation" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.

@see #domainConfig(ElasticsearchDomainConfig)

"getterModel" : {

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

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"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

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"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "ElasticsearchDomainConfig",

"returnType" : "Elasticsha...
The configuration information of the domain requested in the \texttt{DescribeElasticsearchDomainConfig} request.

```java
public void setDomainConfig(ElasticsearchDomainConfig domainConfig)
```

The configuration information of the domain requested in the \texttt{DescribeElasticsearchDomainConfig} request.
"variableSetterType" : "ElasticsearchDomainConfig",
},
"xmlNameSpaceUri" : null
]
],
"membersAsMap" : {
"DomainConfig" : {
"beanStyleGetterMethodName" : "getDomainConfig",
"beanStyleSetterMethodName" : "setDomainConfig",
"c2jName" : "DomainConfig",
"c2jShape" : "ElasticsearchDomainConfig",
"defaultConsumerFluentSetterDocumentation" : "<p>The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.</p>
This is a convenience that creates an instance of the { @link ElasticsearchDomainConfig.Builder} avoiding the need to create one manually via { @link ElasticsearchDomainConfig#builder()}. When the { @link Consumer} completes, { @link ElasticsearchDomainConfig.Builder#build()} is called immediately and its result is passed to { @link #domainConfig(ElasticsearchDomainConfig.Builder)}.

@see #domainConfig(ElasticsearchDomainConfig)
@param domainConfig a consumer that will call methods on { @link ElasticsearchDomainConfig.Builder}\n@return Returns a reference to this object so that method calls can be chained together.
"deprecated" : false,
"documentation" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainConfig",
"fluentSetterDocumentation" : "<p>The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.</p>
@param domainConfig The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.
@return Returns a reference to this object so that method calls can be chained together.
", "deprecated" : false,
"documentation" : "The configuration information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.",
"eventHeader" : false,
"eventPayload" : false,
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainConfig",
"setterDocumentation" : "<p>The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.</p>
@param domainConfig The configuration
information of the domain requested in the <code>DescribeElasticsearchDomainConfig</code> request.",
"setterMethodName" : "setDomainConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainConfig",
  "variableName" : "domainConfig",
  "variableType" : "ElasticsearchDomainConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainConfig",
  "variableSetterType" : "ElasticsearchDomainConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainConfig",
  "variableName" : "domainConfig",
  "variableType" : "ElasticsearchDomainConfig",
  "documentation" : "<p>The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.</p>
"simpleType" : "ElasticsearchDomainConfig",
"variableSetterType" : "ElasticsearchDomainConfig"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ { 
  "beanStyleGetterMethodName" : "getDomainConfig",
  "beanStyleSetterMethodName" : "setDomainConfig",
  "c2jName" : "DomainConfig",
  "c2jShape" : "ElasticsearchDomainConfig",
  "defaultConsumerFluentSetterDocumentation" : "<p>The configuration information of the domain requested in
the <code>DescribeElasticsearchDomainConfig</code> request.

This is a convenience that creates an instance of the [ElasticsearchDomainConfig.Builder] avoiding the need to create one manually via [ElasticsearchDomainConfig#builder()].

When the [Consumer] completes, [ElasticsearchDomainConfig.Builder#build()] is called immediately and its result is passed to [ElasticsearchDomainConfig(ElasticsearchDomainConfig)].

```

"deployed" : false,
"documentation" : "<p>The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.</p>

//param domainConfig The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

@return Returns a reference to this object so that method calls can be chained together.

"getterDocumentation" : "<p>The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

@return The configuration information of the domain requested in the
<code>DescribeElasticsearchDomainConfig</code> request.

"http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
The configuration information of the domain requested in the `<code>DescribeElasticsearchDomainConfig</code>` request.

```java
@Param domainConfig The configuration information of the domain requested in the `<code>DescribeElasticsearchDomainConfig</code>` request.

``setMethod`": "setDomainConfig",

``model" : {  
  "variableDeclarationType": "ElasticsearchDomainConfig",
  "variableName": "domainConfig",
  "variableType": "ElasticsearchDomainConfig",
  "documentation": null,
  "simpleType": "ElasticsearchDomainConfig",
  "variableSetterType": "ElasticsearchDomainConfig"
  }
  
  "simple": false,
  "timestampFormat": null,
  "variable": {  
    "variableDeclarationType": "ElasticsearchDomainConfig",
    "variableName": "domainConfig",
    "variableType": "ElasticsearchDomainConfig",
    "documentation": "The configuration information of the domain requested in the `<code>DescribeElasticsearchDomainConfig</code>` request.

``model" : null,

``map": false,

``mapModel" : null,

``marshallingType": "SDK_POJO",

``name": "DomainConfig",

``setterDocumentation" : "The configuration information of the domain requested in the `<code>DescribeElasticsearchDomainConfig</code>` request.

``setterMethodName": "setDomainConfig",

``setterModel" : {
  "variableDeclarationType": "ElasticsearchDomainConfig",
  "variableName": "domainConfig",
  "variableType": "ElasticsearchDomainConfig",
  "documentation": null,
  "simpleType": "ElasticsearchDomainConfig",
  "variableSetterType": "ElasticsearchDomainConfig"
  }
  
  "simple": false,
  "timestampFormat": null,
  "variable": {  
    "variableDeclarationType": "ElasticsearchDomainConfig",
    "variableName": "domainConfig",
    "variableType": "ElasticsearchDomainConfig",
    "documentation": "The configuration information of the domain requested in the `<code>DescribeElasticsearchDomainConfig</code>` request.

``model" : null,

``Wrapper": false

``wrapper": false
"DescribeElasticsearchDomainRequest" : {
"c2jName" : "DescribeElasticsearchDomainRequest",
"customization" : {
 "artificialResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthUnmarshaller" : 0
},
"deprecated" : false,
"documentation" : "<p>Container for the parameters to the
<code><a>DescribeElasticsearchDomain</a></code> operation.</p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
 "action" : "DescribeElasticsearchDomain",
 "locationName" : null,
 "requestUri" : "/2015-01-01/es/domain/{DomainName}",
 "target" : null,
 "verb" : "GET",
 "xmlNameSpaceUri" : null
},
"members" : [ {
 "beanStyleGetterMethodName" : "getDomainName",
 "beanStyleSetterMethodName" : "setDomainName",
 "c2jName" : "DomainName",
 "c2jShape" : "DomainName",
 "defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain for which you want
information.</p>\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to
create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link
String.Builder#build()] is called immediately and its result is passed to [@link #domainName(String)].\n\n@param domainName a consumer that will call methods on [@link String.Builder]\n\n@return Returns a reference to this
object so that method calls can be chained together.\n\n@see #domainName(String)",
 "deprecated" : false,
 "documentation" : "<p>The name of the Elasticsearch domain for which you want
information.</p>",
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
@<param domainName>The name of the Elasticsearch domain for which you want information.</param>
@<return>Returns a reference to this object so that method calls can be chained together.</returns>.
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
@return The name of the Elasticsearch domain for which you want information.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
@<param domainName>The name of the Elasticsearch domain for which you want information.</param>
@<return>Set name of the Elasticsearch domain for which you want information.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"}
}
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": "<p>The name of the Elasticsearch domain for which you want information.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlnsNameSpaceUri": null
}
]
"
"membersAsMap": {
  "DomainName": {
    "beanStyleGetterMethodName": "getDomainName",
    "meanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultValueFluentSetterDocumentation": "<p>The name of the Elasticsearch domain for which you want information.</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #domainName(String)].

-param domainName a consumer that will call methods on [@link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
-see #domainName(String)
", "deprecated": false,
"documentation": "<p>The name of the Elasticsearch domain for which you want information.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "domainName",
"fluentSetterDocumentation": "<p>The name of the Elasticsearch domain for which you want information.</p>
@param domainName The name of the Elasticsearch domain for which you want information.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName": "domainName",
"fluentSetterDocumentation": "<p>The name of the Elasticsearch domain for which you want information.</p>
",
"getterDocumentation": "<p>The name of the Elasticsearch domain for which you want information.</p>
",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "consumed": false,
  "produced": false,
  "additionalConsumingPath": null,
  "additionalProducingPath": null
}
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
@param domainName The name of the Elasticsearch domain for which you want information.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "c2jType" : "String",
  "javaType" : "String",
  "marshallingType" : "STRING",
  "name" : "DomainName",
  "setterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>
@param domainName The name of the Elasticsearch domain for which you want information.",
  "setterMethodName" : "setDomainName",
  "setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "domainName",
    "variableType" : "String",
    "documentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "xmlNameSpaceUri" : null
}]}
"defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>

This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #domainName(String)].

@param domainName a consumer that will call methods on [@link String.Builder]

@return Returns a reference to this object so that method calls can be chained together.

@see #domainName(String)"

"deprecated" : false,
"documentation" : "The name of the Elasticsearch domain for which you want information.

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #domainName(String)].

@see #domainName(String)"
"name" : "DomainName",
"setterDocumentation" : "<p>The name of the Elasticsearch domain for which you want
information.</p>
@param domainName The name of the Elasticsearch domain for which you want information",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the Elasticsearch domain for which you want information.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "DescribeElasticsearchDomainRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "DescribeElasticsearchDomainRequest",
  "variableName" : "describeElasticsearchDomainRequest",
  "variableType" : "DescribeElasticsearchDomainRequest",
  "documentation" : null,
  "simpleType" : "DescribeElasticsearchDomainRequest",
  "variableSetterType" : "DescribeElasticsearchDomainRequest"
},
"wrapper" : false,
"DescribeElasticsearchDomainResponse" : {
  "c2jName" : "DescribeElasticsearchDomainResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  }
}
The result of a `DescribeElasticsearchDomain` request. Contains the status of the domain specified in the request.

This is a convenience that creates an instance of the `ElasticsearchDomainStatus.Builder` avoiding the need to create one manually. When the `domainStatus` consumer completes, creating one via `ElasticsearchDomainStatus.Builder#build()` is called immediately and its result is passed to `domainStatus(ElasticsearchDomainStatus)`. The current status of the Elasticsearch domain.

The current status of the Elasticsearch domain.

The current status of the Elasticsearch domain.

The current status of the Elasticsearch domain.

The current status of the Elasticsearch domain.
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainStatus",
"uri" : false
},

"setterDocumentation" : "<p>The current status of the Elasticsearch domain.</p><p>@param domainStatus The current status of the Elasticsearch domain.</p>",

"setterMethodName" : "setDomainStatus",

"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
}
,

"simple" : false,
"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The current status of the Elasticsearch domain.</p>",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
}
,

"xmlNameSpaceUri" : null
} 

"membersAsMap" : {
  "DomainStatus" : {
    "beanStyleGetterMethodName" : "getDomainStatus",
    "setterMethodName" : "setDomainStatus"
  }
}
"beanStyleSetterMethodName" : "setDomainStatus",
"c2jName" : "DomainStatus",
"c2jShape" : "ElasticsearchDomainStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>\n\nThis is a convenience that creates an instance of the {@link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via {@link ElasticsearchDomainStatus.Builder#builder()}.\n\nWhen the {@link Consumer} completes, the {@link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to the {@link #domainStatus(ElasticsearchDomainStatus)} method.\n\n@param domainStatus a consumer that will call methods on the {@link ElasticsearchDomainStatus.Builder} \n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #domainStatus(ElasticsearchDomainStatus)"

"deprecated" : false,
"documentation" : "<p>The current status of the Elasticsearch domain.</p>";
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatus",
"fluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>\n\n@param domainStatus The current status of the Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainStatus",
"getterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>\n\n@return The current status of the Elasticsearch domain.",
"getterModel" : {
  "returnType" : "ElasticsearchDomainStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainStatus",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainStatus",
"setterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>
@param domainStatus The current status of the Elasticsearch domain."
,"setterMethodName" : "setDomainStatus",
"setterModel" : {
    "variableDeclarationType" : "ElasticsearchDomainStatus",
    "variableName" : "domainStatus",
    "variableType" : "ElasticsearchDomainStatus",
    "documentation" : null,
    "simpleType" : "ElasticsearchDomainStatus",
    "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "ElasticsearchDomainStatus",
    "variableName" : "domainStatus",
    "variableType" : "ElasticsearchDomainStatus",
    "documentation" : "<p>The current status of the Elasticsearch domain.</p>
    "simpleType" : "ElasticsearchDomainStatus",
    "variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getDomainStatus",
    "beanStyleSetterMethodName" : "setDomainStatus",
    "c2jName" : "DomainStatus",
    "c2jShape" : "ElasticsearchDomainStatus",
    "defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain.</p>"
This is a convenience that creates an instance of the $link ElasticsearchDomainStatus.Builder$ avoiding the need to create one manually via $link ElasticsearchDomainStatus.Builder#builder()$. When the $link Consumer$ completes, $link ElasticsearchDomainStatus.Builder#build()$ is called immediately and its result is passed to $link ElasticsearchDomainStatus$.
@return Returns a reference to this object so that method calls can be chained together.
@see #domainStatus(ElasticsearchDomainStatus)"
,"deprecated" : false,
"documentation" : "<p>The current status of the Elasticsearch domain.</p>"",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName": "domainStatus",
"fluentSetterDocumentation": "<p>The current status of the Elasticsearch domain.<br@return> Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName": "domainStatus",
"getterDocumentation": "<p>The current status of the Elasticsearch domain.<br@return> The current status of the Elasticsearch domain.
",
"getterModel": {
"returnType": "ElasticsearchDomainStatus",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "DomainStatus",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "DomainStatus",
"uri": false
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"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "DomainStatus",
"setterDocumentation": "<p>The current status of the Elasticsearch domain.<br@return> The current status of the Elasticsearch domain.
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"setterMethodName": "setDomainStatus",
"setterModel": {
"variableDeclarationType": "ElasticsearchDomainStatus",
"variableName": "domainStatus",
"variableType": "ElasticsearchDomainStatus",
"documentation": null,
"simpleType": "ElasticsearchDomainStatus",
"variableSetterType": "ElasticsearchDomainStatus"
},
"simple": false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "domainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "<p>The current status of the Elasticsearch domain.</p>",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainStatus" ],
"shapeName" : "DescribeElasticsearchDomainResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "DescribeElasticsearchDomainResponse",
  "variableName" : "describeElasticsearchDomainResponse",
  "variableType" : "DescribeElasticsearchDomainResponse",
  "documentation" : null,
  "simpleType" : "DescribeElasticsearchDomainResponse",
  "variableSetterType" : "DescribeElasticsearchDomainResponse"
},
"wrapper" : false
},
"DescribeElasticsearchDomainsRequest" : {
  "c2jName" : "DescribeElasticsearchDomainsRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Container for the parameters to the
<code><a>DescribeElasticsearchDomains</a></code> operation. By default, the API returns the status of all
Elasticsearch domains.</p>"",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
    "action" : "DescribeElasticsearchDomains",
    "locationName" : null,
    "requestUri" : "/2015-01-01/es/domain-info",
    "target" : null,
    "verb" : "POST",
    "xmlNameSpaceUri" : null
},
"members" : [ {
    "beanStyleGetterMethodName" : "getDomainNames",
    "beanStyleSetterMethodName" : "setDomainNames",
    "c2jName" : "DomainNames",
    "c2jShape" : "DomainNameList",
    "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The Elasticsearch domains for which you want information.&lt;/p&gt;&lt;ul&gt;
This is a convenience that creates an instance of the { @link List&lt;String&gt;.Builder} avoiding the need to create one manually via { @link List&lt;String&gt;#builder()}.&lt;/ul&gt;When the { @link Consumer} completes, { @link List&lt;String&gt;.Builder#build()} is called immediately and its result is passed to { @link List&lt;String&gt;#domainNames}.
When the { @link List&lt;String&gt;#domainNames} completes, a reference to this object so that method calls can be chained together.&lt;ul&gt;&lt;li&gt;&lt;@defaultConsumerFluentSetterDocumentation&gt;&lt;/li&gt;&lt;li&gt;
@see #domainNames(List&lt;String&gt;)
@&lt;/ul&gt;
    "deprecated" : false,
    "documentation" : "&lt;p&gt;The Elasticsearch domains for which you want information.&lt;/p&gt;&lt;/ul&gt;"
},
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainNames",
"fluentSetterDocumentation" : "&lt;p&gt;The Elasticsearch domains for which you want information.&lt;/p&gt;&lt;ul&gt;
@param domainNames The Elasticsearch domains for which you want information.&lt;/ul&gt;
@&lt;return&gt; Returns a reference to this object so that method calls can be chained together.&lt;/ul&gt;
    "fluentSetterMethodName" : "domainNames",
    "getterDocumentation" : "&lt;p&gt;The Elasticsearch domains for which you want information.&lt;/p&gt;&lt;ul&gt;&lt;li&gt;&lt;p&gt;&lt;/li&gt;&lt;li&gt;
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.&lt;/ul&gt;&lt;/p&gt;&lt;ul&gt;&lt;li&gt;&lt;return&gt; The Elasticsearch domains for which you want information.&lt;/ul&gt;"
    "getterModel" : {
        "returnType" : "java.util.List&lt;String&gt;",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainNames",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainNames",
"uri" : false}
,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #member(String). Returns a reference to this object so that method calls can be chained together.@see #member(String)@return Returns a reference to this object so that method calls can be chained together.@see #member(String)"
  },
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object@return Returns a reference to this object so that method calls can be chained together.@”,
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object@return The value of the Member property for this object.@",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  }
},
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}.
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainNames",
"setterDocumentation" : "<p>The Elasticsearch domains for which you want information.</p>
@param domainNames The Elasticsearch domains for which you want information.",
"setterMethodName" : "setDomainNames",
"setterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "domainNames",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "domainNames",
"variableType" : "java.util.List<String>",
"documentation" : "p><p>The Elasticsearch domains for which you want information.</p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
},
"xmlNameSpaceUri" : null
} ]

"membersAsMap" : {
"DomainNames" : {
"beanStyleGetterMethodName" : "getDomainNames",
"beanStyleSetterMethodName" : "setDomainNames",
"c2jName" : "DomainNames",
"c2jShape" : "DomainNameList",
"defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch domains for which you want information.</p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. 
When the {@link Consumer} completes, {
@link List<String>.Builder#build()} is called immediately and its result is passed to {
@link #domainNames(List<String>)}. 
@param domainNames a consumer that will call methods on {
@link
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #member(String)]. The new value for the Member property for this object.
\n@returns Returns a reference to this object so that method calls can be chained together.
\n@param member a consumer that will call methods on [link String.Builder]
\n@returns Returns a reference to this object so that method calls can be chained together.
\n@returns Returns the value of the Member property for this object.
\n@returns The value of the Member property for this object.
\n@Getter Model : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallerType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",
"map" : false,
"mapModel" : null,
"marshallerType" : "LIST",
"name" : "DomainNames",
"setterDocumentation" : "&lt;p&gt;The Elasticsearch domains for which you want information.&lt;/p&gt;

@param domainNames The Elasticsearch domains for which you want information.",
"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "xmlNameSpaceUri" : null
},
"variableSetterType" : "java.util.Collection<String>",
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "domainNames",
"variableType" : "java.util.List<String>",
"documentation" : "<p>The Elasticsearch domains for which you want information.</p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
}
},
"xmlNameSpaceUri" : null
}
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainNames",
  "beanStyleSetterMethodName" : "setDomainNames",
  "c2jName" : "DomainNames",
  "c2jShape" : "DomainNameList",
  "defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch domains for which you want information.</p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the {@link Consumer} completes, [ @link List<String>#builder()#build() ] is called immediately and its result is passed to [ @link #domainNames(List<String>) ].
@param domainNames a consumer that will call methods on [ @link List<String>.Builder ]
@return Returns a reference to this object so that method calls can be chained together.
@see #domainNames(List<String>)",
  "deprecated" : false,
  "documentation" : "<p>The Elasticsearch domains for which you want information.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainNames",
  "fluentSetterDocumentation" : "<p>The Elasticsearch domains for which you want information.</p>
@param domainNames The Elasticsearch domains for which you want information.
@return Returns a reference to this object so that method calls can be chained together.
@see #domainNames(List<String>)",
  "getterDocumentation" : "<p>Absolutely nothing. This method doesn't do anything.</p>
@return Absolutely nothing. This method doesn't do anything.
@see #domainNames(List<String>)",
  "getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainNames",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainNames",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #member(String)\}.\n\n@see #member(String)\n@param member a consumer that will call methods on \{@link String.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(String)\n"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)\n@param member The new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(String)\n"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@see #member(String)\n\n@returns The value of the Member property for this object.\n\n@returns",
"getterModel" : {
  "returnType" : "String",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
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"variable" : {
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  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"variableName" : null,
"variableType" : "String",
"variableSetterType" : "String"}
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>
}
",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainNames",
"setterDocumentation" : "<p>The Elasticsearch domains for which you want information.</p>
@param domainNames The Elasticsearch domains for which you want information.",
"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>
}
",
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>The Elasticsearch domains for which you want information.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>
}
",
"xmlNameSpaceUri" : null
} ]
",
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainNames" ],
"shapeName" : "DescribeElasticsearchDomainsRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "DescribeElasticsearchDomainsRequest",
  "variableName" : "describeElasticsearchDomainsRequest",
  "variableModel" : null,
  "xmlNameSpaceUri" : null
}}

"variableType" : "DescribeElasticsearchDomainsRequest",
"documentation" : null,
"simpleType" : "DescribeElasticsearchDomainsRequest",
"variableSetterType" : "DescribeElasticsearchDomainsRequest"
},
"wrapper" : false
],
"DescribeElasticsearchDomainsResponse" : {
"c2jName" : "DescribeElasticsearchDomainsResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
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"deprecated" : false,
"documentation" : "<p>The result of a <code>DescribeElasticsearchDomains</code> request. Contains the status of the specified domains or all domains owned by the account.</p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [
"beanStyleGetterMethodName" : "getDomainStatusList",
"beanStyleSetterMethodName" : "setDomainStatusList",
"c2jName" : "DomainStatusList",
"c2jShape" : "ElasticsearchDomainStatusList",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.</p>
This is a convenience that creates an instance of the {@link List<ElasticsearchDomainStatus>.Builder} avoiding the need to create one manually via {@link List<ElasticsearchDomainStatus>#builder()}. When the {@link Consumer} completes, {@link List<ElasticsearchDomainStatus>.Builder#build()} is called immediately and its result is passed to {@link List#builder()}.
@code
@return Returns a reference to this object so that method calls can be chained together.
@see #domainStatusList(List<ElasticsearchDomainStatus>)"
,"deprecated" : false,
"documentation" : "<p>The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatusList",
"fluentSetterDocumentation" : "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p>
@param domainStatusList The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainStatusList",
"getterDocumentation" : "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p>
<p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.",
"getterModel" : {
  "returnType" : "java.util.List<ElasticsearchDomainStatus>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainStatusList",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainStatusList",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ElasticsearchDomainStatus",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the {@link ElasticsearchDomainStatus.Builder}
avoiding the need to create one manually via {@link ElasticsearchDomainStatus#builder()}."
  }
}

Consumer} completes, {@link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to {@link #member(ElasticsearchDomainStatus)}.\n@param member a consumer that will call methods on {@link ElasticsearchDomainStatus.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(ElasticsearchDomainStatus)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n@returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object."
"getterModel" : {\n"returnType" : "ElasticsearchDomainStatus",
"documentation" : null
} ,
"http" : {\n"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n@returns a reference to this object The new
value for the Member property for this object.

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
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  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "ElasticsearchDomainStatus",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "ElasticsearchDomainStatus",
"templateImplType" : "java.util.ArrayList<ElasticsearchDomainStatus>",
"templateType" : "java.util.List<ElasticsearchDomainStatus>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainStatusList",
"setterDocumentation" : "<p>The status of the domains requested in the<br/>
<code>DescribeElasticsearchDomains</code> request.</p>\n@param domainStatusList The status of the domains requested in the<br/>
<code>DescribeElasticsearchDomains</code> request.

"setterMethodName" : "setDomainStatusList",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<ElasticsearchDomainStatus>",
  "variableName" : "domainStatusList",
  "variableType" : "java.util.List<ElasticsearchDomainStatus>",
  "documentation" : null,
  "simpleType" : "List<ElasticsearchDomainStatus>",
  "variableSetterType" : "java.util.Collection<ElasticsearchDomainStatus>"
},
"simple" : false,
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.List<ElasticsearchDomainStatus>",
"variableName": "domainStatusList",
"variableType": "java.util.List<ElasticsearchDomainStatus>",
"documentation": "The status of the domains requested in the<br>&lt;code&gt;DescribeElasticsearchDomains&lt;/code&gt; request."",
"variableSetterType": "java.util.Collection<ElasticsearchDomainStatus>"
},
"xmlNameSpaceUri": null
},

"membersAsMap": {
"DomainStatusList": {
"beanStyleGetterMethodName": "getDomainStatusList",
"beanStyleSetterMethodName": "setDomainStatusList",
"c2jName": "DomainStatusList",
"c2jShape": "ElasticsearchDomainStatusList",
"defaultConsumerFluentSetterDocumentation": "The status of the domains requested in the<br>&lt;code&gt;DescribeElasticsearchDomains&lt;/code&gt; request.&lt;/p&gt;&lt;/n&gt;This is a convenience that creates an instance of the<br>{@link List&lt;ElasticsearchDomainStatus&gt;}.Builder) avoiding the need to create one manually via {@link<br>List&lt;ElasticsearchDomainStatus&gt;#builder()}.&lt;/n&gt;When the {@link Consumer} completes, {@link<br>List&lt;ElasticsearchDomainStatus&gt;#builder()}) is called immediately and its result is passed to {@link<br>#domainStatusList(List&lt;ElasticsearchDomainStatus&gt;)}.&lt;/n&gt;@param domainStatusList A consumer that will call<br>methods on {@link List&lt;ElasticsearchDomainStatus&gt;#builder()}.&lt;/n&gt;@return Returns a reference to this object so that<br>method calls can be chained together.&lt;/n&gt;see #domainStatusList(List&lt;ElasticsearchDomainStatus&gt;)"
,
"deprecated": false,
"documentation": "The status of the domains requested in the<br>&lt;code&gt;DescribeElasticsearchDomains&lt;/code&gt; request.&lt;/p&gt;",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "domainStatusList",
"fluentSetterDocumentation": "The status of the domains requested in the<br>&lt;code&gt;DescribeElasticsearchDomains&lt;/code&gt; request.&lt;/p&gt;&lt;/n&gt;Attempts to modify the collection returned by<br>this method will result in an UnsupportedOperationExcepiton.&lt;/p&gt;&lt;/n&gt;@return The status of the domains requested in the<br>&lt;code&gt;DescribeElasticsearchDomains&lt;/code&gt; request."",
"getterModel": {
"returnType": "java.util.List&lt;ElasticsearchDomainStatus&gt;",
"documentation": null


"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "DomainStatusList",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "DomainStatusList",
  "uri": false
},

"idempotencyToken": false,

"isBinary": false,

"jsonValue": false,

"list": true,

"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "ElasticsearchDomainStatus",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object. This is a convenience that creates an instance of the { @link ElasticsearchDomainStatus.Builder} avoiding the need to create one manually via { @link ElasticsearchDomainStatus#builder()}. When the { @link Consumer} completes, { @link ElasticsearchDomainStatus.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchDomainStatus.Builder}.

@param member a consumer that will call methods on { @link ElasticsearchDomainStatus.Builder}.
@return Returns a reference to this object so that method calls can be chained together.

@see #member(ElasticsearchDomainStatus)"
}

"documentation": "",

"enumType": null,

"eventHeader": false,

"eventPayload": false,

"fluentEnumGetterMethodName": null,

"fluentEnumSetterMethodName": null,

"fluentGetterMethodName": "member",

"fluentSetterMethodName": "member",

"fluentSetterDocumentation": "Sets the value of the Member property for this object. The new value for the Member property for this object can be chained together."
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"getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.",
"getterModel" : {
  "returnType" : "ElasticsearchDomainStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
".jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object.
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
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"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object.
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object.
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"documentation" : "",
"simpleType" : "ElasticsearchDomainStatus",
"variableSetterType" : "ElasticsearchDomainStatus"
],
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "ElasticsearchDomainStatus",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "ElasticsearchDomainStatus",
"templateImplType" : "java.util.ArrayList<ElasticsearchDomainStatus>",
"templateType" : "java.util.List<ElasticsearchDomainStatus>"}
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainStatusList",
"setterDocumentation" : "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p>
@param domainStatusList The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request."
,"setterMethodName" : "setDomainStatusList",
"setterModel" : {
"variableDeclarationType" : "java.util.List<ElasticsearchDomainStatus>",
"variableName" : "domainStatusList",
"variableType" : "java.util.List<ElasticsearchDomainStatus>",
"documentation" : null,
"simpleType" : "List<ElasticsearchDomainStatus>",
"variableSetterType" : "java.util.Collection<ElasticsearchDomainStatus>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<ElasticsearchDomainStatus>",
"variableName" : "domainStatusList",
"variableType" : "java.util.List<ElasticsearchDomainStatus>",
"documentation" : "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p>
"simpleType" : "List<ElasticsearchDomainStatus>",
"variableSetterType" : "java.util.Collection<ElasticsearchDomainStatus>"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainStatusList",}
"beanStyleSetterMethodName" : "setDomainStatusList",
"c2jName" : "DomainStatusList",
"c2jShape" : "ElasticsearchDomainStatusList",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p>
This is a convenience that creates an instance of the
{ @link List<ElasticsearchDomainStatus>.Builder} avoiding the need to create one manually via { @link List<ElasticsearchDomainStatus>#builder()}. When the { @link Consumer} completes, { @link List<ElasticsearchDomainStatus>.Builder#build()} is called immediately and its result is passed to { @link List<ElasticsearchDomainStatusList(List<ElasticsearchDomainStatus>)}. Returns a reference to this object so that method calls can be chained together.

@see #domainStatusList(List<ElasticsearchDomainStatus>)",
"deprecated" : false,
"documentation" : "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainStatusList",
"fluentSetterDocumentation" : "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.</p>
@see #domainStatusList(List<ElasticsearchDomainStatus>)",
"getterDocumentation" : "<p>The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.
Attempts to modify the collection returned by
this method will result in an UnsupportedOperationException.

@return The status of the domains requested in the
<code>DescribeElasticsearchDomains</code> request.".,
"getterModel" : {
  "returnType" : "java.util.List<ElasticsearchDomainStatus>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainStatusList",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainStatusList",
  "uri" : false
This is a convenience that creates an instance of the ElasticsearchDomainStatus.Builder avoiding the need to create one manually via ElasticsearchDomainStatus.Builder(). When the ElasticsearchDomainStatus.Builder#build() is called immediately and its result is passed to ElasticsearchDomainStatus.Builder#member(a consumer that will call methods on ElasticsearchDomainStatus.Builder)#member() returns a reference to this object so that method calls can be chained together.

The new value for the Member property for this object.

>Returns a reference to this object so that method calls can be chained together.

Returns the value of the Member property for this object.

The value of the Member property for this object.
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object."
@param member The new value for the Member property for this object.
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "member",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : "",
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "ElasticsearchDomainStatus",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "ElasticsearchDomainStatus",
"templateImplType" : "java.util.ArrayList<ElasticsearchDomainStatus>",
"templateType" : "java.util.List<ElasticsearchDomainStatus>"
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainStatusList",
"setterDocumentation" : "<p>The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.</p>
@param domainStatusList The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.",
"setterMethodName" : "setDomainStatusList",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<ElasticsearchDomainStatus>",
  "variableName" : "domainStatusList",
  "variableType" : "java.util.List<ElasticsearchDomainStatus>",
  "documentation" : null,
  "simpleType" : "List<ElasticsearchDomainStatus>",
  "variableSetterType" : "java.util.Collection<ElasticsearchDomainStatus>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<ElasticsearchDomainStatus>",
  "variableName" : "domainStatusList",
  "variableType" : "java.util.List<ElasticsearchDomainStatus>",
  "documentation" : "<p>The status of the domains requested in the <code>DescribeElasticsearchDomains</code> request.</p>
 theorem of the domains requested in the <code>DescribeElasticsearchDomains</code> request.",
  "simpleType" : "List<ElasticsearchDomainStatus>",
  "variableSetterType" : "java.util.Collection<ElasticsearchDomainStatus>"
}
"xmlNameSpaceUri" : null
] ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainStatusList" ],
"shapeName" : "DescribeElasticsearchDomainsResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "DescribeElasticsearchDomainsResponse",
  "variableName" : "describeElasticsearchDomainsResponse",
  "variableType" : "DescribeElasticsearchDomainsResponse",
  "documentation" : null,
  "simpleType" : "DescribeElasticsearchDomainsResponse",
  "variableSetterType" : "DescribeElasticsearchDomainsResponse"
},
"wrapper" : false}
"DescribeElasticsearchInstanceTypeLimitsRequest" : {
  "c2jName" : "DescribeElasticsearchInstanceTypeLimitsRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Container for the parameters to <code>
  DescribeElasticsearchInstanceTypeLimits</code> operation. <p/>
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : {
    "action" : "DescribeElasticsearchInstanceTypeLimits",
    "locationName" : null,
    "requestUri" : "/2015-01-01/es/instanceTypeLimits/{ElasticsearchVersion}/{InstanceType}",
    "target" : null,
    "verb" : "GET",
    "xmlNameSpaceUri" : null
  },
  "members" : [ {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain. This is a convenience that creates an instance of the [{@link String.Builder}]
  avoiding the need to create one manually via [{@link String.Builder()}). When the [{@link Consumer}] completes,
  [{@link String.Builder#build()}] is called immediately and its result is passed to [{@link
  #domainName(String)}].
  @param domainName a consumer that will call methods on [{@link String.Builder}]
  @return Returns a reference to this object so that method calls can be chained together.
  @see #domainName(String)
  "deprecated" : false,
  "documentation" : "DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> Limits</code> for existing domain."
  },
  "enumType" : null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "domainName",
"fluentSetterDocumentation": "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code><a>Limits</a></code> for existing domain. </p>
@returns DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code><a>Limits</a></code> for existing domain.

"fluentSetterMethodName": "domainName",
"getterDocumentation": "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code><a>Limits</a></code> for existing domain. </p>
@returns DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code><a>Limits</a></code> for existing domain.

"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "querystring",
  "marshallLocation": "QUERY_PARAM",
  "marshallLocationName": "domainName",
  "queryString": true,
  "statusCode": false,
  "unmarshallLocationName": "domainName",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "DomainName",
"setterDocumentation": "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code><a>Limits</a></code> for existing domain. </p>
@returns DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code><a>Limits</a></code> for existing domain.

"setterMethodName": "domainName",
"setterModel": {
  "returnType": "String",
  "documentation": null
},
"tag": "DomainName",
"transformer": null,
"uri": false,
existing domain.

setterMethodName" : "setDomainName",
"setterModel" : {

"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
}
},
"simple" : true,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>",
"simpleType" : "String",
"variableSetterType" : "String"
}
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getInstanceTypeAsString",
"beanStyleSetterMethodName" : "setInstanceType",
"c2jName" : "InstanceType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()} .

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link InstanceTypeAsString(String)} .

@link String.Builder\n
@returns Returns a reference to this object so that method calls can be chained together.

@see InstanceType(String)",
"deprecated" : false,
"documentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>",
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "instanceType",
"fluentEnumSetterMethodName" : "instanceType",
"fluentGetterMethodName" : "instanceTypeAsString",
"fluentSetterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>
@see ESPartitionInstanceType\n
@returns Returns a reference to this object so that method calls can be chained
Together.

@see ESPartitionInstanceType",

"fluentSetterMethodName" : "instanceType",

"getterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code>
<a>Limits</a></code> are needed. &lt;p&gt;If the service returns an enum value that is not available in the
current SDK version, [@link #instanceType] will return [@link
ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available
from [@link #instanceTypeAsString].
&lt;p&gt;@return The instance type for an Elasticsearch cluster for which
Elasticsearch <code> <a>Limits</a> </code> are needed.
@see ESPartitionInstanceType",

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "InstanceType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "InstanceType",
  "uri" : true
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "InstanceType",

"setterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code>
<a>Limits</a></code> are needed. &lt;p&gt;@param instanceType The instance type for an Elasticsearch cluster for
which Elasticsearch <code> <a>Limits</a> </code> are needed.
@see ESPartitionInstanceType",

"setterMethodName" : "setInstanceType",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
"instanceType": "String",
"documentation": "The instance type for an Elasticsearch cluster for which Elasticsearch <code>Limits</code> are needed."
},
"simple": true,
"timestampFormat": null,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"setterDocumentation" : "<p> Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed.

\n@param elasticsearchVersion Version of Elasticsearch for which <code> <a>Limits</a> </code> are
needed. ",
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "elasticsearchVersion",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "elasticsearchVersion",
    "variableType" : "String",
    "documentation" : "<p> Version of Elasticsearch for which <code> <a>Limits</a> </code> are needed. <p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} ]
"membersAsMap" : {
    "DomainName" : {
        "beanStyleGetterMethodName" : "getDomainName",
        "beanStyleSetterMethodName" : "setDomainName",
        "getterDocumentation" : "<p> Domain for which <code> <a>Limits</a> </code> are needed. ",
        "getterModel" : {
            "variableDeclarationType" : "String",
            "variableName" : "domainName",
            "variableType" : "String",
            "documentation" : null,
            "simpleType" : "String",
            "variableSetterType" : "String"
        },
        "simple" : true,
        "timestampFormat" : null,
        "variable" : {
            "variableDeclarationType" : "String",
            "variableName" : "domainName",
            "variableType" : "String",
            "documentation" : "<p> Domain for which <code> <a>Limits</a> </code> are needed. "
        }
    }
}
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String.Builder}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #domainName(String)}.

@return Returns a reference to this object so that method calls can be chained together.

@see #domainName(String)",
  "deprecated" : false,
  "documentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>
  
  @param domainName a consumer that will call methods on { @link String.Builder}

  @param domainNameDomainName a consumer that will call methods on { @link String.Builder}

  @return Returns a reference to this object so that method calls can be chained together.

  @see #domainName(String)",

  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

  @return Returns a reference to this object so that method calls can be chained together.

  @see #domainName(String)",

  "getterDocumentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>

  @return Returns a reference to this object so that method calls can be chained together.

  @see #domainName(String)",

  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "querystring",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "domainName",
    "queryString" : true,
    "statusCode" : false,
    "unmarshallLocationName" : "domainName",
  },
DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code><a>Limits</a></code> for existing domain.

```java
@param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code><a>Limits</a></code> for existing domain.
```

### ElasticsearchVersion

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, the result is passed to the consumer.

```java
@BeanStyleMethodName getElasticsearchVersion
@BeanStyleMethodName setElasticsearchVersion
```

Version of Elasticsearch for which <code><a>Limits</a></code> are needed.

```java
<defaultConsumerFluentSetterDocumentation> Version of Elasticsearch for which <a>Limits</a> are needed. </defaultConsumerFluentSetterDocumentation>
```

When the consumer completes, the result is passed to the consumer.
Version of Elasticsearch for which <code><a>Limits</a></code> are needed.

The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()]. When the [String.Builder] completes, [String.Builder#build()] is called immediately and its result is passed to [ESPartitionInstanceType] a consumer that will call methods on [String.Builder].

@see ESPartitionInstanceType

@deprecated

The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.

The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.

The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.

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The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.

The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.

The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.

The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.

The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.
@see ESPartitionInstanceType

"getterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed. </p><p>\nIf the service returns an enum value that is not available in the current SDK version, [@link #instanceType] will return [@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #instanceTypeAsString].\n</p><p>\n@return The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.\n@see ESPartitionInstanceType",

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "InstanceType",
  "queryString" : false,
  "unmarshallLocationName" : "InstanceType",
  "uri" : true
},

"idempotencyToken" : false,

"setterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed. </p><p>\n@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed.\n@see ESPartitionInstanceType",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
The instance type for an Elasticsearch cluster for which Elasticsearch <code>Limits</code> are needed. 

This is a convenience that creates an instance of the <code>DomainName</code> avoiding the need to create one manually via <code>String.Builder</code>. When the <code>Consumer</code> completes, <code>String.Builder#build()</code> is called immediately and its result is passed to <code>DomainName(String)</code>. Returns a reference to this object so that method calls can be chained together.

DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code>Limits</code> for existing domain.

DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code>Limits</code> for existing domain.
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "querystring",
  "marshallLocation": "QUERY_PARAM",
  "marshallLocationName": "domainName",
  "queryString": true,
  "statusCode": false,
  "unmarshallLocationName": "domainName",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "DomainName",
"setterDocumentation": "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code><a>Limits</a></code> for existing domain. </p>\n@param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code><a>Limits</a></code> for existing domain.",
"setterMethodName": "setDomainName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"variableType" : "String",
"documentation" : "<p> DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for Elasticsearch <code> <a>Limits</a> </code> for existing domain. </p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getInstanceTypeAsString",
"beanStyleSetterMethodName" : "setInstanceType",
"c2jName" : "InstanceType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #instanceTypeAsString(String)}.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #instanceTypeAsString(String)}.
@param instanceType a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #instanceType(String)",
"deprecated" : false,
"documentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "instanceType",
"fluentEnumSetterMethodName" : "instanceType",
"fluentGetterMethodName" : "instanceTypeAsString",
"fluentSetterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>
If the service returns an enum value that is not available in the current SDK version, {@link #instanceType} will return {@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #instanceTypeAsString}. 
"getterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code> <a>Limits</a> </code> are needed. </p>
@see ESPartitionInstanceType",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "InstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceType",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "InstanceType",
"setterDocumentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed. </p>@param instanceType The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed. <p>@see ESPartitionInstanceType",
"setterMethodName" : "setInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : "<p> The instance type for an Elasticsearch cluster for which Elasticsearch <code><a>Limits</a></code> are needed. </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getElasticsearchVersion".
"beanStyleSetterMethodName" : "setElasticsearchVersion",
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "<p> Version of Elasticsearch for which <code> Limits</code> are needed. </p>
This is a convenience that creates an instance of the <a>String.Builder</a> avoiding the need to create one manually via <code>String#builder()</code>. When the <a>Consumer</a> completes, <a>String.Builder#build()</a> is called immediately and its result is passed to <a>ElasticsearchVersion(String)</a>.<a>param</a> <code>elasticsearchVersion</code> a consumer that will call methods on <a>String.Builder</a>.

@return Returns a reference to this object so that method calls can be chained together.<a>see ElasticsearchVersion(String)</a>.

"deprecated" : false,
"documentation" : "<p> Version of Elasticsearch for which <code>Limits</code> are needed. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p> Version of Elasticsearch for which <code>Limits</code> are needed. </p>
@param elasticsearchVersion Version of Elasticsearch for which <code>Limits</code> are needed.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "<p> Version of Elasticsearch for which <code>Limits</code> are needed. </p>
@return Version of Elasticsearch for which <code>Limits</code> are needed.",
"getterModel" : {
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  "documentation" : null
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  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "ElasticsearchVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchVersion",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
Container for the parameters received from `<code>DescribeElasticsearchInstanceTypeLimits</code>` operation. 

```java
{  
  "artificialResultWrapper" : null,
  "skipGeneratingMarshaller" : false,
  "skipGeneratingModelClass" : false,
  "skipGeneratingUnmarshaller" : false,
  "staxTargetDepthOffset" : 0
},
  "deprecated" : false,
  "documentation" : "\p> Container for the parameters received from `<code>DescribeElasticsearchInstanceTypeLimits</code>` operation. \p> 

"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,

"explicitEventPayloadMember" : null,
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"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,

"marshallers" : null,

"members" : [  
  "beanStyleGetterMethodName" : "getLimitsByRole",
  "beanStyleSetterMethodName" : "setLimitsByRole",
  "c2jName" : "LimitsByRole",
  "c2jShape" : "LimitsByRole",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the LimitsByRole property for this object.\n\nThis is a convenience that creates an instance of the { @link Map<String,Limits>.Builder} avoiding the need to create one manually via { @link Map<String,Limits>.builder()}.\n\nWhen the { @link Consumer} completes, { @link Map<String,Limits>.Builder#build()} is called immediately and its result is passed to { @link LimitsByRole(Map<String,Limits>)}.\n\n@see #limitsByRole(Map<String,Limits>)\n@returns a reference to this object so that method calls can be chained together.\n\n\n@deprecated\n\n\n\n"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,

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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitsByRole",
  "fluentSetterDocumentation" : "Sets the value of the LimitsByRole property for this object.\n\n@see #limitsByRole(Map<String,Limits>)\n\n@returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName" : "limitsByRole",
"getterDocumentation" : "Returns the value of the LimitsByRole property for this object.\n\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n\n\n"getterModel" : {

```
"returnType" : "java.util.Map<String,Limits>",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LimitsByRole",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LimitsByRole",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
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"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "InstanceRole",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object." + "This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via
        { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}. By return
        param key a consumer that will call methods on
        { @link String.Builder}.
    "deprecated" : false,
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    "eventPayload" : false,
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    "fluentSetterMethodName" : null,
    "idempotent" : false,
    "isBinary" : false,
    "isCollection" : false,
    "isMap" : true,
    "isPayload" : false,
    "isStreaming" : false,
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    "keyModel" : {
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      "beanStyleSetterMethodName" : "setKey",
      "c2jName" : "key",
      "c2jShape" : "InstanceRole",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.
        This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via
        { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)).
    "deprecated" : false,
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    "enumType" : null,
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    "eventPayload" : false,
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    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "key",
    "fluentSetterMethodName" : null,
    "idempotent" : false,
    "isBinary" : false,
    "isCollection" : false,
    "isMap" : true,
    "isPayload" : false,
    "isStreaming" : false,
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      "beanStyleSetterMethodName" : "setKey",
      "c2jName" : "key",
      "c2jShape" : "InstanceRole",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.
        This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via
        { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)).
    "deprecated" : false,
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    "eventPayload" : false,
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    "fluentEnumSetterMethodName" : null,
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    "fluentSetterMethodName" : null,
    "idempotent" : false,
    "isBinary" : false,
    "isCollection" : false,
    "isMap" : true,
    "isPayload" : false,
    "isStreaming" : false,
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      "beanStyleSetterMethodName" : "setKey",
      "c2jName" : "key",
      "c2jShape" : "InstanceRole",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.
        This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via
        { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)).
    "deprecated" : false,
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    "fluentSetterMethodName" : null,
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    "isCollection" : false,
    "isMap" : true,
    "isPayload" : false,
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    "keyModel" : {
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      "beanStyleSetterMethodName" : "setKey",
      "c2jName" : "key",
      "c2jShape" : "InstanceRole",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.
        This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via
        { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)).
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    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
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    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "key",
    "fluentSetterMethodName" : null,
    "idempotent" : false,
    "isBinary" : false,
    "isCollection" : false,
    "isMap" : true,
    "isPayload" : false,
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
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"getterDocumentation" : "Returns the value of the Key property for this object.

@return The value of the Key property for this object.",
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"documentation" : null
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"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
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"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.",
"setterMethodName" : "setKey",
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"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
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  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
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},
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"valueModel" : {
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  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "Limits",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the {@link Limits.Builder} avoiding the need to create one manually via {@link Limits.Builder#builder()}. When the @{link Consumer} completes, {@link Limits.Builder#build()} is called immediately and its result is passed to {@link #value(Limits)}.@param value a consumer that will call methods on {@link Limits.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #value(Limits)",
  "deprecated" : false,
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  "eventHeader" : false,
  "eventPayload" : false,
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  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object. The new value for the Value property for this object.@param value The value of the Value property for this object.@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.@return The value of the Value property for this object.",
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    "documentation" : null
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    "isStreaming" : false,
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"statusCode" : false,
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"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
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"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
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"setterModel" : {
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  "variableType" : "Limits",
  "documentation" : null,
  "simpleType" : "Limits",
  "variableSetterType" : "Limits"
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  "variableName" : "value",
  "variableType" : "Limits",
  "documentation" : null,
  "simpleType" : "Limits",
  "variableSetterType" : "Limits"
},
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"templateType" : "java.util.Map<String,Limits>"
},
"marshallingType" : "MAP",
"name" : "LimitsByRole",
"setterDocumentation" : "Sets the value of the LimitsByRole property for this object.\n\n@param limitsByRole The new value for the LimitsByRole property for this object."
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,Limits>",
  "variableName" : "limitsByRole",
  "variableType" : "java.util.Map<String,Limits>",
  "documentation" : null,
  "simpleType" : "Map<String,Limits>",
  "variableSetterType" : "java.util.Map<String,Limits>"
},
"simple" : false,
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"variable" : {
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  "variableType" : "java.util.Map<String,Limits>",
  "documentation" : "",
  "simpleType" : "Map<String,Limits>",
  "variableSetterType" : "java.util.Map<String,Limits>"
},
"xmlNameSpaceUri" : null
}
"membersAsMap" : {
  "LimitsByRole" : {
    "beanStyleGetterMethodName" : "getLimitsByRole",
    "beanStyleSetterMethodName" : "setLimitsByRole",
    "c2jName" : "LimitsByRole",
    "c2jShape" : "LimitsByRole",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the LimitsByRole property for this object.
This is a convenience that creates an instance of the [Map<String,Limits>].Builder avoiding the need to create one manually via Map<String,Limits>#builder().
When the Consumer completes, Map<String,Limits>.Builder#build() is called immediately and its result is passed to LimitsByRole(Map<String,Limits>).
@deprecated @param limitsByRole a consumer that will call methods on LimitsByRole a consumer that will call methods on Map<String,Limits>.Builder@return Returns a reference to this object so that method calls can be chained together.
@see limitsByRole(Map<String,Limits>)",
    "deprecated" : false,
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    "enumType" : null,
    "eventHeader" : false,
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    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "limitsByRole",
    "fluentSetterDocumentation" : "Sets the value of the LimitsByRole property for this object.
@param limitsByRole The new value for the LimitsByRole property for this object.
@return Returns a reference to this object so that method calls can be chained together.
",
    "fluentSetterMethodName" : "limitsByRole",
    "getterDocumentation" : "Returns the value of the LimitsByRole property for this object.
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

return

The value of the LimitsByRole property for this object.

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"getterModel": {
  "returnType": "java.util.Map<String,Limits>",
  "documentation": null
},
"http": {
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  "additionalUnmarshallingPath": null,
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  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "LimitsByRole",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "LimitsByRole",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": true,
"mapModel": {
  "implType": "java.util.HashMap",
  "interfaceType": "java.util.Map",
  "keyLocationName": "key",
  "keyModel": {
    "beanStyleGetterMethodName": "getKey",
    "beanStyleSetterMethodName": "setKey",
    "c2jName": "key",
    "c2jShape": "InstanceRole",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object. This is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create one manually via \{ @link String#builder() \}. When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #key(String) \}. @param key a consumer that will call methods on \{ @link String.Builder \}@return Returns a reference to this object so that method calls can be chained together." @see #key(String)",
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"fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.",
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"getterDocumentation" : "Returns the value of the Key property for this object.\n\n@return The value of the Key property for this object."

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
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  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
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  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

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"name" : "Key",

"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object."

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"setterModel" : {
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  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

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  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
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"xmlns:NameSpaceURI" : null
},
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"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "Limits",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the \[@link Limits.Builder\] avoiding the need to create one manually via\[@link Limits#builder\].\nWhen the \[@link Consumer\] completes, \[@link Limits.Builder#build\] is called immediately and its result is passed to\[@link #value\].\n@param value a consumer that will call methods on\[@link Limits.Builder\]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #value",
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  "enumType" : null,
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  "eventPayload" : false,
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  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object. The new value for the Value property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.\n@return The value of the Value property for this object.",
  "getterModel" : {
    "returnType" : "Limits",
    "documentation" : null
  },
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    "greedy" : false,
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"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
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"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
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"setterMethodName" : "setValue",
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  "variableType" : "Limits",
  "documentation" : null,
  "simpleType" : "Limits",
  "variableSetterType" : "Limits"
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  "variableDeclarationType" : "Limits",
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  "variableType" : "Limits",
  "documentation" : "",
  "simpleType" : "Limits",
  "variableSetterType" : "Limits"
},
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},
"entryType" : "Map.Entry<String, Limits>",
"templateType" : "java.util.Map<String,Limits>"
},
"marshallingType" : "MAP",
"name" : "LimitsByRole",
"setterDocumentation" : "Sets the value of the LimitsByRole property for this object.\n\n@param limitsByRole The new value for the LimitsByRole property for this object.",
"setterMethodName" : "setLimitsByRole",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,Limits>",
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  "variableType" : "java.util.Map<String,Limits>",
  "documentation" : null,
  "simpleType" : "Map<String,Limits>",
  "variableSetterType" : "java.util.Map<String,Limits>"
},
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"variable" : {
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  "variableName" : "limitsByRole",
  "variableType" : "java.util.Map<String,Limits>",
  "documentation" : null,
  "simpleType" : "Map<String,Limits>",
  "variableSetterType" : "java.util.Map<String,Limits>"
},
"xmlnsSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getLimitsByRole",
  "beanStyleSetterMethodName" : "setLimitsByRole",
  "c2jName" : "LimitsByRole",
  "c2jShape" : "LimitsByRole",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the LimitsByRole property for this object.\nThis is a convenience that creates an instance of the [\link Map\<String,Limits\>.Builder\] avoiding the need to create one manually via [\link Map\<String,Limits\>#builder()\].\nWhen the [\link Consumer\] completes, [\link Map\<String,Limits\>.Builder#build()\] is called immediately and its result is passed to [\link #limitsByRole(Map\<String,Limits\>)\].\n@param limitsByRole a consumer that will call methods on [\link Map\<String,Limits\>.Builder\]\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #limitsByRole(Map\<String,Limits\>)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "limitsByRole",
  "fluentSetterDocumentation" : "Sets the value of the LimitsByRole property for this object.\nThe new value for the LimitsByRole property for this object.\n@returns Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "limitsByRole",
  "getterDocumentation" : "Returns the value of the LimitsByRole property for this object.\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n@returns Returns a reference to this object so that method calls can be chained together."
} ]}
The value of the LimitsByRole property for this object.

```
"getterModel" : {
  "returnType" : "java.util.Map<String,Limits>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LimitsByRole",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LimitsByRole",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "InstanceRole",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #key(String)].\n\n@see #key(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
```

---

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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.

@return The value of the Key property for this object.",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
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 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "key",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "key",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setKey",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "key",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
}.
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "Limits",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the{@link Limits.Builder} avoiding the need to create one manually via{@link Limits.Builder#builder()}. When the {@link Consumer} completes, {@link Limits.Builder#build()} is called immediately and its result is passed to{@link #value(Limits)}. @param value a consumer that will call methods on{@link Limits.Builder}@return Returns a reference to this object so that method calls can be chained together. @see #value(Limits)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object. @param value The new value for the Value property for this object. @return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object. @return The value of the Value property for this object.",
  "getterModel" : {
    "returnType" : "Limits",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\n",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "Limits",
  "variableName" : "value",
  "variableType" : "Limits",
  "documentation" : null,
  "simpleType" : "Limits",
  "variableSetterType" : "Limits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Limits",
  "variableName" : "value",
  "variableType" : "Limits",
  "documentation" : "",
  "simpleType" : "Limits",
  "variableSetterType" : "Limits"
},
"xml NameSpaceUri" : null
},
"entryType" : "Map.Entry<String, Limits>",
"templateType" : "java.util.Map<String,Limits>"
},
"marshallingType" : "MAP",
"name" : "LimitsByRole",
"setterDocumentation" : "Sets the value of the LimitsByRole property for this object.\n\n@param limitsRole The new limits role for this object."
The new value for the LimitsByRole property for this object.

setterMethodName": "setLimitsByRole",
"setterModel": {
  "variableDeclarationType": ".Map<String,Limits>",
  "variableName": "limitsByRole",
  "variableType": ".Map<String,Limits>",
  "documentation": null,
  "simpleType": "Map<String,Limits>",
  "variableSetterType": "java.util.Map<String,Limits>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.Map<String,Limits>",
  "variableName": "limitsByRole",
  "variableType": "java.util.Map<String,Limits>",
  "documentation": null,
  "simpleType": "Map<String,Limits>",
  "variableSetterType": "java.util.Map<String,Limits>"
},
"xmlNameSpaceUri": null
}]
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "DescribeElasticsearchInstanceTypeLimitsResponse",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "DescribeElasticsearchInstanceTypeLimitsResponse",
  "variableName": "describeElasticsearchInstanceTypeLimitsResponse",
  "variableType": "DescribeElasticsearchInstanceTypeLimitsResponse",
  "documentation": null,
  "simpleType": "DescribeElasticsearchInstanceTypeLimitsResponse",
  "variableSetterType": "DescribeElasticsearchInstanceTypeLimitsResponse"
},
"wrapper": false
},
"DescribeReservedElasticsearchInstanceOfferingsRequest": {
  "c2jName": "DescribeReservedElasticsearchInstanceOfferingsRequest",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
"staxTargetDepthOffset" : 0,
"deprecated" : false,
"documentation" : "Container for parameters to DescribeReservedElasticsearchInstanceOfferings",

"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
"action" : "DescribeReservedElasticsearchInstanceOfferings",
"locationName" : null,
"requestUri" : "/2015-01-01/es/reservedInstanceOfferings",
"target" : null,
"verb" : "GET",
"xmlNameSpaceUri" : null
},
"members" : [
{
"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"c2jName" : "ReservedElasticsearchInstanceOfferingId",
"c2jShape" : "GUID",
"defaultConsumerFluentSetterDocumentation" : "The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.Builder().

When the Consumer completes, String.Builder() is called immediately and its result is passed to a consumer that will call methods on String.Builder() a consumer that will call methods on String.Builder().

Returns a reference to this object so that method calls can be chained together.

@see #reservedElasticsearchInstanceOfferingId(String)
",
"deprecated" : false,
"documentation" : "The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.
",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.

@see #reservedElasticsearchInstanceOfferingId
"};
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": "The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier."
},
"xmlNameSpaceUri": null,
},
"beanStyleGetterMethodName": "getMaxResults",
"beanStyleSetterMethodName": "setMaxResults",
"c2jName": "MaxResults",
"c2jShape": "MaxResults",
"defaultConsumerFluentSetterDocumentation": "Set this value to limit the number of results returned. If not specified, defaults to 100.
This is a convenience that creates an instance of the Integer.Builder avoiding the need to create one manually via Integer.Builder().
When the Consumer completes, Integer.Builder#build() is called immediately and its result is passed to Integer.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see #maxResults(Integer)",
"deprecated": false,
"documentation": "Set this value to limit the number of results returned. If not specified, defaults to 100."
},
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "maxResults",
"fluentSetterDocumentation": "Set this value to limit the number of results returned. If not specified, defaults to 100.\n@return Returns a reference to this object so that method calls can be chained together."
},
"getterDocumentation": "Set this value to limit the number of results returned. If not specified, defaults to 100.\n@return Set this value to limit the number of results returned. If not specified, defaults to 100."
}
"header": false,
"isPayload": false,
"isStreaming": false,
"location": "querystring",
"marshallLocation": "QUERY_PARAM",
"marshallLocationName": "maxResults",
"queryString": true,
"statusName": false,
"unmarshallLocationName": "maxResults",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "MaxResults",
"setterDocumentation": "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
\n@\param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.",
"setterMethodName": "setMaxResults",
"setterModel": {
"variableDeclarationType": "Integer",
"variableName": "maxResults",
"variableType": "Integer",
"documentation": null,
"simpleType": "Integer",
"variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "Integer",
"variableName": "maxResults",
"variableType": "Integer",
"documentation": "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
"simpleType": "Integer",
"variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
},
{ "beanStyleGetterMethodName": "getNextToken",
"beanStyleSetterMethodName": "setNextToken",
"c2jName": "NextToken"}
"c2jShape" : "NextToken",

"defaultConsumerFluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}. @param nextToken a consumer that will call methods on { @link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #nextToken(String)",

"deprecated" : false,

"documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>",

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "nextToken",

"fluentSetterMethodName" : "nextToken",

"getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. @return Returns a reference to this object so that method calls can be chained together.</p>",

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flatmapped" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

```
@Param nextToken
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
```

```
setMaxResults
Set this value to limit the number of results returned. If not specified, defaults to 100.
```

This is a convenience that creates an instance of the `Integer.Builder` avoiding the need to create one manually via `Integer.builder()`. When the `Consumer` completes, `Integer.Builder#build()` is called immediately and its result is passed to `maxResults(Integer)` a consumer that will call methods on `Integer.Builder#return Returns a reference to this object so that method calls can be chained together.

```
MaxResults
Set this value to limit the number of results returned. If not specified, defaults to 100.
```

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MaxResults
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MaxResults
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MaxResults
```
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.
@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@return Set this value to limit the number of results returned. If not specified, defaults to 100.",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.",
"setterMethodName" : "setMaxResults",
"setterModel" : {
"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer"
Set this value to limit the number of results returned. If not specified, defaults to 100.

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
"documentation" : null,
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>",
  "simpleType" : "String"}
"variableSetterType" : "String",
"xmlNameSpaceUri" : null
},
"ReservedElasticsearchInstanceOfferingId" : {
"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"c2jName" : "ReservedElasticsearchInstanceOfferingId",
"c2jShape" : "GUID",
"defaultConsumerFluentSetterDocumentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier. This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #reservedElasticsearchInstanceOfferingId(String)].
@see #reservedElasticsearchInstanceOfferingId(String)",
"deprecated" : false,
"documentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>",
"getterDocumentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
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"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"RequestMarshallingMethod" : "string",
"RequestUnmarshallerMethodName" : "string",
"ResponseMarshallingMethod" : "string",
"ResponseUnmarshallerMethodName" : "string"
}
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "offeringId",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "offeringId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceOfferingId",
"setterDocumentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p><p>@param reservedElasticsearchInstanceOfferingId The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservedElasticsearchInstanceOfferingId",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "reservedElasticsearchInstanceOfferingId",
"variableType" : "String",
"documentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"c2jName" : "ReservedElasticsearchInstanceOfferingId",
"c2jShape" : "GUID",
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "reservedElasticsearchInstanceOfferingId",
"variableType" : "String",
"documentation" : "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}]
"defaultConsumerFluentSetterDocumentation": "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link reservedElasticsearchInstanceOfferingId(String)}.

@see reservedElasticsearchInstanceOfferingId(String)",
"deprecated": false,
"documentation": "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>

@see reservedElasticsearchInstanceOfferingId(String)",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation": "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>

@see reservedElasticsearchInstanceOfferingId(String)",
"fluentSetterMethodName": "reservedElasticsearchInstanceOfferingId",
"getterDocumentation": "<p>The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.</p>

@see reservedElasticsearchInstanceOfferingId(String)",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "querystring",
  "marshallLocation": "QUERY_PARAM",
  "marshallLocationName": "offeringId",
  "queryString": true,
  "statusCode": false,
  "unmarshallLocationName": "offeringId",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.

```
@param reservedElasticsearchInstanceOfferingId
The offering identifier filter value. Use this parameter to show only the available offering that matches the specified reservation identifier.
```

```
@see #maxResults(Integer)
```

```
@link Integer.Builder
```

```
returns a reference to this object so that method calls can be chained together.
```

```
@link Integer.Builder
```

```
when the @link Consumer completes, @link Integer.Builder#build() is called immediately and its result is passed to @link #maxResults(Integer).
```

```
@link Integer.Builder
```

```
@returns
```

```
@returns
```

```
@returns
```

```
@returns
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```

```
@returns
```
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.\n@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.\n@return Returns a reference to this object so that method calls can be chained together.\n</p>",
"getterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.\n@return Set this value to limit the number of results returned. If not specified, defaults to 100.\n</p>",
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "maxResults",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "maxResults",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.\n@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.\n</p>",
"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  }
}
Set this value to limit the number of results returned. If not specified, defaults to 100.

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String#builder#build() is called immediately and its result is passed to String.Builder. The method calls on String.Builder are called on the result of String.Builder#build().

Returns a reference to this object so that method calls can be chained together.

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

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NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"ListModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "nextToken",
"setterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination."
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
"simpleType" : "String",
  "variableSetterType" : "String"
{"xmlNameSpaceUri": null,
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "DescribeReservedElasticsearchInstanceOfferingsRequest",
"simpleMethod": true,
"unmarshaller": null,
"variable": {
  "variableDeclarationType": "DescribeReservedElasticsearchInstanceOfferingsRequest",
  "variableName": "describeReservedElasticsearchInstanceOfferingsRequest",
  "variableType": "DescribeReservedElasticsearchInstanceOfferingsRequest",
  "documentation": null,
  "simpleType": "DescribeReservedElasticsearchInstanceOfferingsRequest",
  "variableSetterType": "DescribeReservedElasticsearchInstanceOfferingsRequest"
},
"wrapper": false,
"DescribeReservedElasticsearchInstanceOfferingsResponse": {
  "c2jName": "DescribeReservedElasticsearchInstanceOfferingsResponse",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": "<p>Container for results from <code>DescribeReservedElasticsearchInstanceOfferings</code></p>",
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": null,
  "marshaller": null,
  "members": [
    {
      "beanStyleGetterMethodName": "getNextToken",
      "beanStyleSetterMethodName": "setNextToken",
      "c2jName": "NextToken",
      "c2jShape": "NextToken",
      "defaultConsumerFluentSetterDocumentation": "<p>Provides an identifier to allow retrieval of paginated"}]}]}
This is a convenience that creates an instance of the [@link String.Builder](#) avoiding the need to create one manually via [@link String#builder()](#). When the [@link Consumer](#) completes, [@link String.Builder#build()](#) is called immediately and its result is passed to [@link #nextToken(String)](#). Return Returns a reference to this object so that method calls can be chained together.

```
@deprecated
public String nextToken(@param String nextToken)

Provides an identifier to allow retrieval of paginated results.

```

```
@see #nextToken(String)
```

```
@getter
public String nextToken()

Provides an identifier to allow retrieval of paginated results.

```

```
@getterModel
{ returnType: String, documentation: null }
```

```
@http
```
"setterDocumentation" : "Provides an identifier to allow retrieval of paginated results.
\n@\nnextToken Provides an identifier to allow retrieval of paginated results."
,
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "Provides an identifier to allow retrieval of paginated results.
\n@\n\nnextToken Provides an identifier to allow retrieval of paginated results."
,
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferings",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferings",
  "c2jName" : "ReservedElasticsearchInstanceOfferings",
  "c2jShape" : "ReservedElasticsearchInstanceOfferingList",
  "defaultConsumerFluentSetterDocumentation" : "List of reserved Elasticsearch instance offerings\nThis is a convenience that creates an instance of the \n\nList<ReservedElasticsearchInstanceOffering>.Builder\navoiding the need to create one manually via \n\nList<ReservedElasticsearchInstanceOffering>#builder()\n\nWhen the \n\nConsumer\ncompletes, \n\nList<ReservedElasticsearchInstanceOffering>.Builder#build()\nis called immediately and its result is passed to \n\nList<ReservedElasticsearchInstanceOffering>\n\n@\n\nreservedElasticsearchInstanceOfferings a consumer that will call methods on \n\nreservedElasticsearchInstanceOfferings\n\n\n@\n\nreturn Returns a reference to this object so that method calls can be chained together.\n\n\n#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
  "deprecated" : false,
  "documentation" : "List of reserved Elasticsearch instance offerings\n\n\n\n@\n\nreservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings\n\n\n@\n\nreturn Returns a reference to this object so that method calls can be chained together.\n",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferings",
  "fluentSetterDocumentation" : "List of reserved Elasticsearch instance offerings\n\n\n@\n\nreservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings\n\n\n@\n\nreturn Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "reservedElasticsearchInstanceOfferings",
"getterDocumentation" : "List of reserved Elasticsearch instance offerings
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
\n\n\@return List of reserved Elasticsearch instance offerings",
"getterModel" : {
  "returnType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstanceOfferings",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferings",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ReservedElasticsearchInstanceOffering",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the { @link
ReservedElasticsearchInstanceOffering.Builder} avoiding the need to create one manually via { @link
ReservedElasticsearchInstanceOffering#builder}().\nWhen the { @link Consumer} completes, { @link
ReservedElasticsearchInstanceOffering.Builder#build}() is called immediately and its result is passed to { @link
ReservedElasticsearchInstanceOffering.Builder#build}().\n\n@see #member(ReservedElasticsearchInstanceOffering)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.",
"getterModel" : {
  "returnType" : "ReservedElasticsearchInstanceOffering",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "ReservedElasticsearchInstanceOffering",
  "variableName" : "member",
  "variableType" : "ReservedElasticsearchInstanceOffering",
  "documentation" : null,
  "simpleType" : "ReservedElasticsearchInstanceOffering"}
"defaultConsumerFluentSetterDocumentation": "<p>Provides an identifier to allow retrieval of paginated results. This is a convenience that creates an instance of the <a>String.Builder</a> avoiding the need to create one manually via <a>String.Builder()</a>. When the <a>Consumer</a> completes, <a>String.Builder#build()</a> is called immediately and its result is passed to <a>#nextToken(String)</a>. @param nextToken a consumer that will call methods on <a>String.Builder</a>.

@returns Returns a reference to this object so that method calls can be chained together.

@see #nextToken(String)",

"deprecated": false,

"documentation": "<p>Provides an identifier to allow retrieval of paginated results.</p>

"enumType": null,

"eventHeader": false,

"eventPayload": false,

"fluentEnumGetterMethodName": null,

"fluentEnumSetterMethodName": null,

"fluentGetterMethodName": "nextToken",

"fluentSetterMethodName": "nextToken",

"getterDocumentation": "<p>Provides an identifier to allow retrieval of paginated results.</p>

@returns Provides an identifier to allow retrieval of paginated results.

@see #nextToken(String)",

"getterModel": {

"returnType": "String",

"documentation": null

},

"http": {

"additionalMarshallingPath": null,

"additionalUnmarshallingPath": null,

"flattened": false,

"greedy": false,

"header": false,

"isPayload": false,

"isStreaming": false,

"location": null,

"marshallLocation": "PAYLOAD",

"marshallLocationName": "NextToken",

"queryString": false,

"statusCode": false,

"unmarshallLocationName": "NextToken",

"uri": false
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>\n@param
nextToken Provides an identifier to allow retrieval of paginated results."

"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null

"ReservedElasticsearchInstanceOfferings" : {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferings",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferings",
  "c2jName" : "ReservedElasticsearchInstanceOfferings",
  "c2jShape" : "ReservedElasticsearchInstanceOfferingList",
  "defaultConsumerFluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>\nThis is a convenience that creates an instance of the { @link List<ReservedElasticsearchInstanceOffering>.Builder} avoiding the need to create one manually via { @link List<ReservedElasticsearchInstanceOffering>#builder()}.\n\nWhen the { @link Consumer} completes, { @link List<ReservedElasticsearchInstanceOffering>.Builder#build()} is called immediately and its result is passed to { @link #reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)}.\n\n@param
reservedElasticsearchInstanceOfferings a consumer that will call methods on { @link List<ReservedElasticsearchInstanceOffering>.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see
#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)"
"deprecated" : false,
"documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferings",
"fluentSetterDocumentation" : ""<p>List of reserved Elasticsearch instance offerings</p>\n@<p><p>@param reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings\n@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "reservedElasticsearchInstanceOfferings",
"getterDocumentation" : ""<p>List of reserved Elasticsearch instance offerings</p>\n<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n</p>\n@return List of reserved Elasticsearch instance offerings",
"getterModel" : {
"returnType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceOfferings",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceOfferings",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "ReservedElasticsearchInstanceOffering",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object.

This is a convenience that creates an instance of the \{ @link 
ReservedElasticsearchInstanceOffering.Builder \} avoiding the need to create one manually via \{ @link 
ReservedElasticsearchInstanceOffering#builder() \}.

When the \{ @link Consumer \} completes, \{ @link 
ReservedElasticsearchInstanceOffering.Builder#build() \} is called immediately and its result is passed to \{ @link 
#member(ReservedElasticsearchInstanceOffering) \}.

\param member a consumer that will call methods on
\{ @link ReservedElasticsearchInstanceOffering.Builder \}\n\n\return Returns a reference to this object so that method
calls can be chained together.\n\nsee #member(ReservedElasticsearchInstanceOffering)

"deprecated" : false,
"documentation" : ",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(ReservedElasticsearchInstanceOffering)",

\@param member
The new value for the Member property for this object.\n\n\@return Returns a reference to this object so that method
calls can be chained together.\n
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@see #member(ReservedElasticsearchInstanceOffering)",

\@return The value of
the Member property for this object.\n
"getterModel" : {
  "returnType" : "ReservedElasticsearchInstanceOffering",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : {
"variableDeclarartionType" : "ReservedElasticsearchInstanceOffering",
"variableName" : "member",
"variableType" : "ReservedElasticsearchInstanceOffering",
"documentation" : null,
"simpleType" : "ReservedElasticsearchInstanceOffering",
"variableSetterType" : "ReservedElasticsearchInstanceOffering"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarartionType" : "ReservedElasticsearchInstanceOffering",
"variableName" : "member",
"variableType" : "ReservedElasticsearchInstanceOffering",
"documentation" : "List of reserved Elasticsearch instance offerings",
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"templateImplType" : "java.util.ArrayList<ReservedElasticsearchInstanceOffering>",
"templateType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ReservedElasticsearchInstanceOfferings",
"setterDocumentation" : "List of reserved Elasticsearch instance offerings",
"setterMethodName" : "setReservedElasticsearchInstanceOfferings",
"setterModel" : {
"variableDeclarartionType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"variableName" : "reservedElasticsearchInstanceOfferings",
"variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : null,
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
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"setterDocumentation" : "List of reserved Elasticsearch instance offerings",
"setterMethodName" : "setReservedElasticsearchInstanceOfferings",
"setterModel" : {
"variableDeclarartionType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"variableName" : "reservedElasticsearchInstanceOfferings",
"variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : null,
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ReservedElasticsearchInstanceOfferings",
"setterDocumentation" : "List of reserved Elasticsearch instance offerings",
"setterMethodName" : "setReservedElasticsearchInstanceOfferings",
"setterModel" : {
"variableDeclarartionType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"variableName" : "reservedElasticsearchInstanceOfferings",
"variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : null,
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ReservedElasticsearchInstanceOfferings",
"setterDocumentation" : "List of reserved Elasticsearch instance offerings",
"setterMethodName" : "setReservedElasticsearchInstanceOfferings",
"setterModel" : {
"variableDeclarartionType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"variableName" : "reservedElasticsearchInstanceOfferings",
"variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : null,
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ReservedElasticsearchInstanceOfferings",
"setterDocumentation" : "List of reserved Elasticsearch instance offerings",
"setterMethodName" : "setReservedElasticsearchInstanceOfferings",
"setterModel" : {
"variableDeclarartionType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"variableName" : "reservedElasticsearchInstanceOfferings",
"variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : null,
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ReservedElasticsearchInstanceOfferings",
"setterDocumentation" : "List of reserved Elasticsearch instance offerings",
"setterMethodName" : "setReservedElasticsearchInstanceOfferings",
"setterModel" : {
"variableDeclarartionType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"variableName" : "reservedElasticsearchInstanceOfferings",
"variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : null,
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"map" : false,
"mapModel" : null,
"variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>" },
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"variableName" : "reservedElasticsearchInstanceOfferings",
"variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>"
},
"xmlNameSpaceUri" : null,

"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultValue" : "null",
"defaultConsumerFluentSetterDocumentation" : "Provides an identifier to allow retrieval of paginated results.<p>This is a convenience that creates an instance of the {<link String.Builder}> avoiding the need to create one manually via {<link String#builder()>. When the {<link Consumer>} completes, {<link String.Builder#build()}> is called immediately and its result is passed to {<link #nextToken(String)}>.

@see #nextToken(String)"
",
"deprecated" : false,
"documentation" : "Provides an identifier to allow retrieval of paginated results.<p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "null",
"fluentEnumSetterMethodName" : "null",
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Provides an identifier to allow retrieval of paginated results.<p>Provides an identifier to allow retrieval of paginated results.<p>Provides an identifier to allow retrieval of paginated results.<p>Provides an identifier to allow retrieval of paginated results.<p>Provides an identifier to allow retrieval of paginated results.<p>Provides an identifier to allow retrieval of paginated results.
",
"getDocumentation" : "Provides an identifier to allow retrieval of paginated results.<p>",
"getters" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : "null",
"additionalUnmarshallingPath" : "null",
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param
nextToken Provides an identifier to allow retrieval of paginated results.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferings",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferings",
  "c2jName" : "ReservedElasticsearchInstanceOfferings",
  "c2jShape" : "ReservedElasticsearchInstanceOfferingList",
"greedy" : false,
"defaultConsumerFluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
This is a convenience that creates an instance of the{@link List<ReservedElasticsearchInstanceOffering>.Builder} avoiding the need to create one manually via {@link List<ReservedElasticsearchInstanceOffering>#builder()}. When the{@link Consumer} completes, {@link List<ReservedElasticsearchInstanceOffering>.Builder#build()} is called immediately and its result is passed to{@link reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)}.

@see reservedElasticsearchInstanceOfferings a consumer that will call methods on

```
#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
```

"deprecated" : false,
"documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferings",
"fluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
@param reservedElasticsearchInstanceOfferings a consumer that will call methods on
@return Returns a reference to this object so that method calls can be chained together.

```

#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
```

"deprecated" : false,
"documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferings",
"fluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
@param reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings
@return Returns a reference to this object so that method calls can be chained together.

```

#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
```

"deprecated" : false,
"documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferings",
"fluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
@param reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings
@return Returns a reference to this object so that method calls can be chained together.

```

#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
```

"deprecated" : false,
"documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferings",
"fluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
@param reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings
@return Returns a reference to this object so that method calls can be chained together.

```

#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
```

"deprecated" : false,
"documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferings",
"fluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
@param reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings
@return Returns a reference to this object so that method calls can be chained together.

```

#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
```

"deprecated" : false,
"documentation" : "<p>List of reserved Elasticsearch instance offerings</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferings",
"fluentSetterDocumentation" : "<p>List of reserved Elasticsearch instance offerings</p>
@param reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings
@return Returns a reference to this object so that method calls can be chained together.

```

#reservedElasticsearchInstanceOfferings(List<ReservedElasticsearchInstanceOffering>)",
```

"deprecated" : false,
"list": true,
"listModel": {
    "implType": "java.util.ArrayList",
    "interfaceType": "java.util.List",
    "listMemberModel": {
        "beanStyleGetterMethodName": "getMember",
        "beanStyleSetterMethodName": "setMember",
        "c2jName": "member",
        "c2jShape": "ReservedElasticsearchInstanceOffering",
        "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [ReservedElasticsearchInstanceOffering] avoiding the need to create one manually via [ReservedElasticsearchInstanceOffering#builder()]. When the [Consumer] completes, [ReservedElasticsearchInstanceOffering.Builder#build()] is called immediately and its result is passed to [ReservedElasticsearchInstanceOffering#member(ReservedElasticsearchInstanceOffering)].

@param member a consumer that will call methods on [ReservedElasticsearchInstanceOffering.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #member(ReservedElasticsearchInstanceOffering)
",
        "deprecated": false,
        "documentation": ""
    },
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "member",
    "fluentSetterMethodName": "member",
    "fluentSetterDocumentation": "Sets the value of the Member property for this object. The new value for the Member property for this object.

@param member
@return Returns a reference to this object so that method calls can be chained together.
",
    "getterDocumentation": "Returns the value of the Member property for this object.

@return The value of the Member property for this object.
",
    "getterModel": {
        "returnType": "ReservedElasticsearchInstanceOffering",
        "documentation": null
    },
    "http": {
        "additionalMarshallingPath": null,
        "additionalUnmarshallingPath": null,
        "flattened": false,
        "greedy": false,
        "header": false,
        "isPayload": false,
        "isStreaming": false,
        "location": null,
        "marshallLocation": "PAYLOAD",
        "marshallLocationName": "member",
        "queryString": false,
        "statusCode": false
    }
}
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "ReservedElasticsearchInstanceOffering",
  "variableName" : "member",
  "variableType" : "ReservedElasticsearchInstanceOffering",
  "documentation" : null,
  "simpleType" : "ReservedElasticsearchInstanceOffering",
  "variableSetterType" : "ReservedElasticsearchInstanceOffering"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ReservedElasticsearchInstanceOffering",
  "variableName" : "member",
  "variableType" : "ReservedElasticsearchInstanceOffering",
  "documentation" : "",
  "simpleType" : "ReservedElasticsearchInstanceOffering",
  "variableSetterType" : "ReservedElasticsearchInstanceOffering"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "ReservedElasticsearchInstanceOffering",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "ReservedElasticsearchInstanceOffering",
"templateImplType" : "java.util.ArrayList<ReservedElasticsearchInstanceOffering>",
"templateType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"variable" : {
  "variableDeclarationType" : "ReservedElasticsearchInstanceOffering",
  "variableName" : "member",
  "variableType" : "ReservedElasticsearchInstanceOffering",
  "documentation" : "",
  "simpleType" : "ReservedElasticsearchInstanceOffering",
  "variableSetterType" : "ReservedElasticsearchInstanceOffering"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",  

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"name" : "ReservedElasticsearchInstanceOfferings",
"setterDocumentation" : "List of reserved Elasticsearch instance offerings\n@param reservedElasticsearchInstanceOfferings List of reserved Elasticsearch instance offerings",
"setterMethodName" : "setReservedElasticsearchInstanceOfferings",
"setterModel" : {
"variableDeclarationType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"variableName" : "reservedElasticsearchInstanceOfferings",
"variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : null,
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"variableName" : "reservedElasticsearchInstanceOfferings",
"variableType" : "java.util.List<ReservedElasticsearchInstanceOffering>",
"documentation" : "List of reserved Elasticsearch instance offerings",
"simpleType" : "List<ReservedElasticsearchInstanceOffering>",
"variableSetterType" : "java.util.Collection<ReservedElasticsearchInstanceOffering>",
},
"xmlnsNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DescribeReservedElasticsearchInstanceOfferingsResponse",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "DescribeReservedElasticsearchInstanceOfferingsResponse",
"variableName" : "describeReservedElasticsearchInstanceOfferingsResponse",
"variableType" : "DescribeReservedElasticsearchInstanceOfferingsResponse",
"documentation" : null,
"simpleType" : "DescribeReservedElasticsearchInstanceOfferingsResponse",
"variableSetterType" : "DescribeReservedElasticsearchInstanceOfferingsResponse"
},
"wrapper" : false
},
"DescribeReservedElasticsearchInstancesRequest" : {
"c2jName" : "DescribeReservedElasticsearchInstancesRequest",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"artistResultWrapp
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Container for parameters to
<code>DescribeReservedElasticsearchInstances</code></p>

"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
  "action" : "DescribeReservedElasticsearchInstances",
  "locationName" : null,
  "requestUri" : "/2015-01-01/es/reservedInstances",
  "target" : null,
  "verb" : "GET",
  "xmlNameSpaceUri" : null
},
"members" : [ {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
  "c2jName" : "ReservedElasticsearchInstanceId",
  "c2jShape" : "GUID",
  "defaultConsumerFluentSetterDocumentation" : "<p>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</p>

This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via {link String#builder()}. When the [link Consumer] completes, {link String.Builder#build()} is called immediately and its result is passed to {link #reservedElasticsearchInstanceId(String)}.

@see
#reservedElasticsearchInstanceId(String)

"deprecated" : false,
"documentation" : "<p>The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.</p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "<p>The reserved instance identifier filter value. Use this parameter to show"}
only the reservation that matches the specified reserved Elasticsearch instance ID.

@param

reservedElasticsearchInstanceId The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

@return

Returns a reference to this object so that method calls can be chained together.

"setterDocumentation" : "reservedElasticsearchInstanceId",

"getterDocumentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

@return

The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

"getterModel" : {

"returnType" : "String",

"documentation" : null

},

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : false,

"header" : false,

"isPayload" : false,

"isStreaming" : false,

"location" : "querystring",

"marshallLocation" : "QUERY_PARAM",

"marshallLocationName" : "reservationId",

"queryString" : true,

"statusCode" : false,

"unmarshallLocationName" : "reservationId",

"uri" : false

},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "ReservedElasticsearchInstanceId",

"setterDocumentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

@return

reservedElasticsearchInstanceId The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

"setterMethodName" : "setReservedElasticsearchInstanceId",

"setterModel" : {

"variableDeclarationType" : "String",

"variableName" : "reservedElasticsearchInstanceId",

"variableType" : "String",

"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "reservedElasticsearchInstanceId",
"variableType" : "String",
"documentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
],

"beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults",
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "Set this value to limit the number of results returned. If not specified, defaults to 100. This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}. When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #maxResults(Integer)}.\n\n@see #maxResults(Integer)",
"deprecated" : false,
"documentation" : "Set this value to limit the number of results returned. If not specified, defaults to 100."
,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "Set this value to limit the number of results returned. If not specified, defaults to 100.\n\n@see #maxResults(Integer)",
"getterDocumentation" : "Set this value to limit the number of results returned. If not specified, defaults to 100.\n\n@see #maxResults(Integer)",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.",
"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}
"defaultConsumerFluentSetterDocumentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.";

"documentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.";

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.";

"getterDocumentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.";

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NextToken",
"setterDocumentation": "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p><p>@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
</p>",
"setterMethodName": "setNextToken",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String",
  "documentation": "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"membersAsMap": {
  "MaxResults": {
    "beanStyleGetterMethodName": "getMaxResults",
    "beanStyleSetterMethodName": "setMaxResults",
    "c2jName": "MaxResults",
    "c2jShape": "MaxResults",
    "defaultConsumerFluentSetterDocumentation": "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p><p>This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}.\n\nWhen the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #maxResults(Integer)}.\n@param maxResults a consumer that will call methods on {@link Integer.Builder} on return. Returns a reference to this object so that method calls can be chained together.\n@see #maxResults(Integer)",
    "deprecated": false,
"documentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@return Set this value to limit the number of results returned. If not specified, defaults to 100.",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>
@param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.
",
"setterMethodName" : "setMaxResults",
"setterModel" : {
"returnType" : "MaxResults",
"documentation" : null
}
"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : "Set this value to limit the number of results returned. If not specified, defaults to 100.<p>
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"NextToken" : {
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.<p>
"deprecated" : false,
"documentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.<p>
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.<p>
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination."}
getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "queryString",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "nextToken",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "nextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.",
"setterMethodName" : "setNextToken",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "nextToken",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "nextToken",
"variableType" : "String"}
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to reservedElasticsearchInstanceId(String)

@see #reservedElasticsearchInstanceId(String)

@deprecated

The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

@see #reservedElasticsearchInstanceId(String)

@deprecated

The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.
The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

```xml

Simple

<param>${reservedElasticsearchInstanceId}</param>

Handler

<string>${reservedElasticsearchInstanceId}</string>

```

The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.

```

Simple

<param>${reservedElasticsearchInstanceId}</param>

Handler

<string>${reservedElasticsearchInstanceId}</string>

```
"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceIds",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceIds",
"c2jName" : "ReservedElasticsearchInstanceIds",
"c2jShape" : "GUID",
"defaultValueConsumerFluentSetterDocumentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String.Builder#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #reservedElasticsearchInstanceId(String)\}.\n\n@see #reservedElasticsearchInstanceId(String)"
"deprecated" : false,
"documentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID."
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.\n\n@see #reservedElasticsearchInstanceId(String)"
"fluentSetterMethodName" : "reservedElasticsearchInstanceId",
"getterDocumentation" : "The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.\n\n@see #reservedElasticsearchInstanceId(String)"
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "querystring",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "reservationId",
    "queryString" : true,
    "statusCode" : false,
"unmarshallLocationName" : "reservationId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"setterDocumentation" : "\<p>\nThe reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.\</p>\n@param reservedElasticsearchInstanceId The reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.",
"setterMethodName" : "setReservedElasticsearchInstanceId",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "reservedElasticsearchInstanceId",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "reservedElasticsearchInstanceId",
 "variableType" : "String",
 "documentation" : "\<p>\nThe reserved instance identifier filter value. Use this parameter to show only the reservation that matches the specified reserved Elasticsearch instance ID.\</p>\",
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults",
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "\<p>\nSet this value to limit the number of results returned. If not specified, defaults to 100.\</p>\n\nThis is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer.Builder#builder()}.\n\nWhen the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to the consumer that will call methods on the [[link Integer.Builder#build()]].\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see
#maxResults(Integer)

"deprecated" : false,
"documentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.

@return Set this value to limit the number of results returned. If not specified, defaults to 100.

"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "maxResults",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "maxResults",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.

@Param maxResults Set this value to limit the number of results returned. If not specified, defaults to 100.

"setterModel" : {
  "returnType" : "Integer",
  "documentation" : null
}"
"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "<p>Set this value to limit the number of results returned. If not specified, defaults to 100.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "NextToken",
  "defaultConsumerFluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}.
@method
@see #nextToken(String)",
  "deprecated" : false,
  "documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "nextToken",
  "fluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@method
@see #nextToken(String)",
  "deprecated" : false,
  "documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@method
@see #nextToken(String)";
"getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@method
@see #nextToken(String)";
  "fluentSetterMethodName" : "nextToken",
  "getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@method
@see #nextToken(String)";
NextToken. It is used for pagination.

```
"getterModel" : {
   "returnType" : "String",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : "querystring",
   "marshallLocation" : "QUERY_PARAM",
   "marshallLocationName" : "nextToken",
   "queryString" : true,
   "statusCode" : false,
   "unmarshallLocationName" : "nextToken",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.",
"setterMethodName" : "setNextToken",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "nextToken",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "nextToken",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
}
```
NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

Container for results from DescribeReservedElasticsearchInstances</code></p>

"variable" : {
    "variableDeclarationType" : "DescribeReservedElasticsearchInstancesRequest",
    "variableName" : "describeReservedElasticsearchInstancesRequest",
    "variableType" : "DescribeReservedElasticsearchInstancesRequest",
    "documentation" : null,
    "simpleType" : "DescribeReservedElasticsearchInstancesRequest",
    "variableSetterType" : "DescribeReservedElasticsearchInstancesRequest"
},
"wrapper" : false
},
"DescribeReservedElasticsearchInstancesResponse" : {
    "c2jName" : "DescribeReservedElasticsearchInstancesResponse",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "Container for results from DescribeReservedElasticsearchInstances</code></p>

"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
    "beanStyleGetterMethodName" : "getNextToken","documentation" : "Container for results from DescribeReservedElasticsearchInstances</code></p>"},
"simpleMethod" : true,
"unmarshaller" : null,

"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null } ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DescribeReservedElasticsearchInstancesRequest",
"simpleMethod" : true,
"unmarshaller" : null,
"variable" : {
    "variableDeclarationType" : "DescribeReservedElasticsearchInstancesRequest",
    "variableName" : "describeReservedElasticsearchInstancesRequest",
    "variableType" : "DescribeReservedElasticsearchInstancesRequest",
    "documentation" : null,
    "simpleType" : "DescribeReservedElasticsearchInstancesRequest",
    "variableSetterType" : "DescribeReservedElasticsearchInstancesRequest"
},
"wrapper" : false
},
"DescribeReservedElasticsearchInstancesResponse" : {
    "c2jName" : "DescribeReservedElasticsearchInstancesResponse",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "Container for results from DescribeReservedElasticsearchInstances</code></p>"},
"simpleMethod" : true,
"unmarshaller" : null,
"variable" : {
    "variableDeclarationType" : "DescribeReservedElasticsearchInstancesRequest",
    "variableName" : "describeReservedElasticsearchInstancesRequest",
    "variableType" : "DescribeReservedElasticsearchInstancesRequest",
    "documentation" : null,
    "simpleType" : "DescribeReservedElasticsearchInstancesRequest",
    "variableSetterType" : "DescribeReservedElasticsearchInstancesRequest"
},
"wrapper" : false
},
"DescribeReservedElasticsearchInstancesResponse" : {
    "c2jName" : "DescribeReservedElasticsearchInstancesResponse",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "Container for results from DescribeReservedElasticsearchInstances</code></p>"},
"simpleMethod" : true,
"unmarshaller" : null,
"variable" : {
    "variableDeclarationType" : "DescribeReservedElasticsearchInstancesRequest",
    "variableName" : "describeReservedElasticsearchInstancesRequest",
    "variableType" : "DescribeReservedElasticsearchInstancesRequest",
    "documentation" : null,
    "simpleType" : "DescribeReservedElasticsearchInstancesRequest",
    "variableSetterType" : "DescribeReservedElasticsearchInstancesRequest"
},
"wrapper" : false
},
"DescribeReservedElasticsearchInstancesResponse" : {
    "c2jName" : "DescribeReservedElasticsearchInstancesResponse",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "Container for results from DescribeReservedElasticsearchInstances</code></p>"},
"simpleMethod" : true,
"unmarshaller" : null,
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "String",
"defaultValueFluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
This is a convenience that creates an instance of the <code>String.Builder</code> avoiding the need to
create one manually via <code>String.Builder().build()</code>. When the <code>Consumer</code> completes, <code>String.Builder#build()</code> is called immediately and its result is passed to <code>#nextToken(String)</code>.

When the <code>Consumer</code> completes, <code>String.Builder#build()</code> is called immediately and its result is passed to <code>#nextToken(String)</code>.
@param nextToken a consumer that will call methods on <code>String.Builder</code>
@return Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)",
"deprecated" : false,
"documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param nextToken Provides an identifier to allow retrieval of paginated results.
@return Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)",
"getterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NextToken",
"setterDocumentation": "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param
nextToken Provides an identifier to allow retrieval of paginated results.",
"setterMethodName": "setNextToken",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String",
  "documentation": "<p>Provides an identifier to allow retrieval of paginated results.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
  { "c2jName": "ReservedElasticsearchInstances",
  "c2jShape": "ReservedElasticsearchInstanceList",
  "defaultConsumerFluentSetterDocumentation": "<p>List of reserved Elasticsearch instances.</p>
This is a convenience that creates an instance of the \[ @link List<ReservedElasticsearchInstance>.Builder \] avoiding the need to create one manually via { @link List<ReservedElasticsearchInstance>#builder() }\n\nWhen the \[ @link Consumer \] completes, \[ @link List<ReservedElasticsearchInstance>.Builder#build() \] is called immediately and its result is passed to \[ @link #reservedElasticsearchInstances(List<ReservedElasticsearchInstance>) \].\n@param
reservedElasticsearchInstances a consumer that will call methods on \[ @link List<ReservedElasticsearchInstance>.Builder \]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #reservedElasticsearchInstances(List<ReservedElasticsearchInstance>)",
  "deprecated": false,
  "documentation": "<p>List of reserved Elasticsearch instances.</p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "reservedElasticsearchInstances",
  "fluentSetterDocumentation": "<p>List of reserved Elasticsearch instances.</p>\n@param
reservedElasticsearchInstances List of reserved Elasticsearch instances.

@return Returns a reference to this object so that method calls can be chained together.

"getterDocumentation" : "List of reserved Elasticsearch instances.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return List of reserved Elasticsearch instances.

"getterModel" : {
  "returnType" : "java.util.List<ReservedElasticsearchInstance>",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstances",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstances",
  "uri" : false
},

"idempotencyToken" : false,

"list" : true,

"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ReservedElasticsearchInstance",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the { @link ReservedElasticsearchInstance.Builder} avoiding the need to create one manually via { @link ReservedElasticsearchInstance#builder()}. When the { @link Consumer} completes, { @link ReservedElasticsearchInstance.Builder#build()} is called immediately and its result is passed to { @link #member(ReservedElasticsearchInstance)}.

@param member a consumer that will call methods on { @link ReservedElasticsearchInstance.Builder}

@return Returns a reference to this object so that method calls can be chained together.

@see #member(ReservedElasticsearchInstance)

"deprecated" : false,

"documentation" : "",

"enumType" : null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "member",
"fluentSetterDocumentation": "Sets the value of the Member property for this object.\n\n@\n\n\n@param member
The new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together. ",
"fluentSetterMethodName": "member",
"getterDocumentation": "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object. ",
"getterModel": {
"returnType": "ReservedElasticsearchInstance",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.\n\n\n@param member
The new value for the Member property for this object."
"setterMethodName": "setMember",
"setterModel": {
"variableDeclarationType": "ReservedElasticsearchInstance",
"variableName": "member",
"variableType": "ReservedElasticsearchInstance",
"documentation": null
}
"simpleType" : "ReservedElasticsearchInstance",
"variableSetterType" : "ReservedElasticsearchInstance"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ReservedElasticsearchInstance",
  "variableName" : "member",
  "variableType" : "ReservedElasticsearchInstance",
  "documentation" : "",
  "simpleType" : "ReservedElasticsearchInstance",
  "variableSetterType" : "ReservedElasticsearchInstance"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "ReservedElasticsearchInstance",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "ReservedElasticsearchInstance",
"templateImplType" : "java.util.ArrayList<ReservedElasticsearchInstance>",
"templateType" : "java.util.List<ReservedElasticsearchInstance>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ReservedElasticsearchInstances",
"setterDocumentation" : "<p>List of reserved Elasticsearch instances.</p>
@param reservedElasticsearchInstances List of reserved Elasticsearch instances.",
"setterMethodName" : "setReservedElasticsearchInstances",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<ReservedElasticsearchInstance>",
  "variableName" : "reservedElasticsearchInstances",
  "variableType" : "java.util.List<ReservedElasticsearchInstance>",
  "documentation" : null,
  "simpleType" : "List<ReservedElasticsearchInstance>",
  "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstance>",
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<ReservedElasticsearchInstance>",
  "variableName" : "reservedElasticsearchInstances",
  "variableType" : "java.util.List<ReservedElasticsearchInstance>",
  "documentation" : "<p>List of reserved Elasticsearch instances.</p>",
  "simpleType" : "List<ReservedElasticsearchInstance>",
  "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstance>",
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<ReservedElasticsearchInstance>",
  "variableName" : "reservedElasticsearchInstances",
  "variableType" : "java.util.List<ReservedElasticsearchInstance>",
  "documentation" : "<p>List of reserved Elasticsearch instances.</p>",
  "simpleType" : "List<ReservedElasticsearchInstance>",
  "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstance>",
"simple" : false,
"timestampFormat" : null,
"variableSetterType" : "java.util.Collection<ReservedElasticsearchInstance>"
],
"xmlNameSpaceUri" : null
]
],
"membersAsMap" : {
"NextToken" : {
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to
create one manually via {@link String.Builder#builder()}.
When the {@link Consumer} completes, the caller of
@link String.Builder#build() is called immediately and its result is passed to
@link #nextToken(String).
@returns Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)",
"deprecated" : false,
"documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@returns Returns a reference to this object so that method calls can be chained together.
",n@return
"fluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@returns Returns a reference to this object so that method calls can be chained together.
",n@return
"getterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@returns Provides an identifier to allow retrieval of paginated results.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken"
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"isList" : false,
"listModel" : null,
"list" : false,
"mapModel" : null,
"map" : false,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>
@param
nextToken Provides an identifier to allow retrieval of paginated results.
",
"setterMethodName" : "setNextToken",
"setterModel" : {
"variableDeclarationType" : "String",
"simple" : true,
"name" : "nextToken",
"documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
"variableType" : "String",
"simpleType" : "String",
"variableSetterType" : "String"
},
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableType" : "String",
"documentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>",
"variableName" : "nextToken",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ReservedElasticsearchInstances" : {
"beanStyleGetterMethodName" : "getReservedElasticsearchInstances",
"c2jName" : "ReservedElasticsearchInstances",
"c2jShape" : "ReservedElasticsearchInstanceList",
"defaultConsumerFluentSetterDocumentation" : "<p>List of reserved Elasticsearch instances.</p>
@This is a convenience that creates an instance of the List<ReservedElasticsearchInstance>.Builder avoiding the need to create one manually via List<ReservedElasticsearchInstance>#builder(). When the Consumer completes, List<ReservedElasticsearchInstance>.Builder#build() is called immediately and its result is passed to List<ReservedElasticsearchInstances(List<ReservedElasticsearchInstance>)>.@return
Returns a reference to this object so that method calls can be chained together.@see #reservedElasticsearchInstances(List<ReservedElasticsearchInstance>)",
"deprecated" : false,
"documentation" : "List of reserved Elasticsearch instances.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstances",
"fluentSetterDocumentation" : "List of reserved Elasticsearch instances.
@param reservedElasticsearchInstances List of reserved Elasticsearch instances.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservedElasticsearchInstances",
"getterDocumentation" : "List of reserved Elasticsearch instances.
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return List of reserved Elasticsearch instances.",
"getterModel" : {
"returnType" : "java.util.List<ReservedElasticsearchInstance>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstances",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstances",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "ReservedElasticsearchInstance",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the [ @link ReservedElasticsearchInstance.Builder]
avoiding the need to create one manually via \{@link ReservedElasticsearchInstance#builder()\}.\n
When the \{@link Consumer\} completes, \{@link ReservedElasticsearchInstance.Builder#build()\} is called immediately and its result is passed to \{@link #member(ReservedElasticsearchInstance)\}.\n
@throws NullPointerException if \(member\) is null

@see #member(ReservedElasticsearchInstance)
"setterDocumentation": "Sets the value of the Member property for this object.\n
@param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "ReservedElasticsearchInstance",
  "variableName": "member",
  "variableType": "ReservedElasticsearchInstance",
  "documentation": null,
  "simpleType": "ReservedElasticsearchInstance",
  "variableSetterType": "ReservedElasticsearchInstance"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ReservedElasticsearchInstance",
  "variableName": "member",
  "variableType": "ReservedElasticsearchInstance",
  "documentation": null,
  "simpleType": "ReservedElasticsearchInstance",
  "variableSetterType": "ReservedElasticsearchInstance"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "ReservedElasticsearchInstance",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "ReservedElasticsearchInstance",
"mapModel": null,
"marshallingType": "LIST",
"name": "ReservedElasticsearchInstances",
"setterDocumentation": "<p>List of reserved Elasticsearch instances.</p>
@param reservedElasticsearchInstances List of reserved Elasticsearch instances.",
"setterMethodName": "setReservedElasticsearchInstances",
"setterModel": {
  "variableDeclarationType": "java.util.List<ReservedElasticsearchInstance>",
  "variableName": "reservedElasticsearchInstances",
  "variableType": "java.util.List<ReservedElasticsearchInstance>",
  "documentation": null,
  "simpleType": "List<ReservedElasticsearchInstance>",
  "variableSetterType": "java.util.Collection<ReservedElasticsearchInstance>"}
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<ReservedElasticsearchInstance>",
  "variableName" : "reservedElasticsearchInstances",
  "variableType" : "java.util.List<ReservedElasticsearchInstance>",
  "documentation" : "<p>List of reserved Elasticsearch instances.</p>",
  "simpleType" : "List<ReservedElasticsearchInstance>",
  "variableSetterType" : "java.util.Collection<ReservedElasticsearchInstance>"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ { 
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "<p>Provides an identifier to allow retrieval of paginated results.</p>

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, the String.Builder is called immediately and its result is passed to {@link #nextToken(String)}.

@see #nextToken(String)
"}
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "Provides an identifier to allow retrieval of paginated results.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "Provides an identifier to allow retrieval of paginated results.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getReservedElasticsearchInstances",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstances",
"c2jName" : "ReservedElasticsearchInstances",
"c2jShape" : "ReservedElasticsearchInstanceList",
"defaultConsumerFluentSetterDocumentation" : "List of reserved Elasticsearch instances.",

This is a convenience that creates an instance of the @link List<ReservedElasticsearchInstance>.Builder avoiding the need
to create one manually via {@link List<ReservedElasticsearchInstance>#builder()}.

When the {@link Consumer} completes, {@link List<ReservedElasticsearchInstance>.Builder#build()} is called immediately and its result is passed to {@link reservedElasticsearchInstances(List<ReservedElasticsearchInstance>)}.

@param reservedElasticsearchInstances a consumer that will call methods on {@link List<ReservedElasticsearchInstance>.Builder}

@return Returns a reference to this object so that method calls can be chained together.

@see reservedElasticsearchInstances(List<ReservedElasticsearchInstance>)

"deprecated" : false,
"documentation" : "<p>List of reserved Elasticsearch instances.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstances",
"fluentSetterDocumentation" : "<p>List of reserved Elasticsearch instances.</p>
@return List of reserved Elasticsearch instances.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "reservedElasticsearchInstances",
"getterDocumentation" : "<p>List of reserved Elasticsearch instances.</p>

"getters" : "<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>"

"getterModel" : {
"returnType" : "java.util.List<ReservedElasticsearchInstance>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstances",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstances",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List"
"listMemberModel": {
  "beanStyleGetterMethodName": "getMember",
  "beanStyleSetterMethodName": "setMember",
  "c2jName": "member",
  "c2jShape": "ReservedElasticsearchInstance",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object. This is a convenience that creates an instance of the {\@link ReservedElasticsearchInstance.Builder} avoiding the need to create one manually via {\@link ReservedElasticsearchInstance#builder()}. When the {\@link Consumer} completes, {\@link ReservedElasticsearchInstance.Builder#build()} is called immediately and its result is passed to {\@link #member(ReservedElasticsearchInstance)}.\n\n@param member a consumer that will call methods on {\@link ReservedElasticsearchInstance.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(ReservedElasticsearchInstance)",
  "deprecated": false,
  "documentation": "",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "member",
  "fluentSetterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(ReservedElasticsearchInstance)",
  "getterDocumentation": "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object."
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "member",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "member",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : { 
  "variableDeclarationType" : "ReservedElasticsearchInstance",
  "variableName" : "member",
  "variableType" : "ReservedElasticsearchInstance",
  "documentation" : null,
  "simpleType" : "ReservedElasticsearchInstance",
  "variableSetterType" : "ReservedElasticsearchInstance"
},
"simple" : false,
"timestampFormat" : null,
"variable" : { 
  "variableDeclarationType" : "ReservedElasticsearchInstance",
  "variableName" : "member",
  "variableType" : "ReservedElasticsearchInstance",
  "documentation" : "",
  "simpleType" : "ReservedElasticsearchInstance",
  "variableSetterType" : "ReservedElasticsearchInstance"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "ReservedElasticsearchInstance",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "ReservedElasticsearchInstance",
"templateImplType" : "java.util.ArrayList<ReservedElasticsearchInstance>",
"templateType" : "java.util.List<ReservedElasticsearchInstance>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ReservedElasticsearchInstances",
"setterDocumentation" : "List of reserved Elasticsearch instances.

@param reservedElasticsearchInstances List of reserved Elasticsearch instances.",
"setterMethodName" : "setReservedElasticsearchInstances",
"setterModel" : {
An error occurred because the client wanted to access a not supported operation. Gives http status code of 409.
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ 
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code></p>.
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the {@link Consumer} completes, }{@link String.Builder#build()} is called
immediately and its result is passed to }{@link #domainName(String)}. When the
param @domainName a consumer that will
call methods on }{@link String.Builder}.
@returns Returns a reference to this object so that method calls can be
chained together.
@see #domainName(String)
",
  "deprecated" : false,
  "documentation" : "<p> Specifies the <code>DomainName</code></p>.
",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code></p>.
This is a convenience that creates an instance of the
{@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the
{@link Consumer} completes, }{@link String.Builder#build()} is called
immediately and its result is passed to }{@link #domainName(String)}. When the
param @domainName a consumer that will
call methods on }{@link String.Builder}.
@returns Returns a reference to this object so that method calls can be
chained together.
",
  "fluentSetterMethodName" : "domainName",
  "getterDocumentation" : "<p> Specifies the <code>DomainName</code></p>.
This is a convenience that creates an instance of the
{@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the
{@link Consumer} completes, }{@link String.Builder#build()} is called
immediately and its result is passed to }{@link #domainName(String)}. When the
param @domainName a consumer that will
call methods on }{@link String.Builder}.
@returns Returns a reference to this object so that method calls can be
chained together.
",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "DomainName",
    "queryString" : false,
    "statusCode" : false,
  }
]
"unmarshallLocationName" : "DomainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p> Specifies the <code>DomainName</code>.
</p>
@param domainName
Specifies the <code>DomainName</code>.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p> Specifies the <code>DomainName</code>.
</p>
","xmlNameSpaceUri" : null
}
"membersAsMap" : {
  "DomainName" : {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code>.
</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.
@pre condition @param domainName a consumer that will call methods on
{@link String.Builder#n@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)"
,"deprecated" : false,
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "\n<p> Specifies the <code>DomainName</code>.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code></p>\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via {
@link String.Builder#builder()}.\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #domainName(String)}\n@var domainName a consumer that will call methods on { @link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #domainName(String)",
"deprecated" : false,
"documentation" : "<p> Specifies the <code>DomainName</code></p>\n"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p> Specifies the <code>DomainName</code></p>\n@var domainName Specifies the <code>DomainName</code>\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p> Specifies the <code>DomainName</code></p>\n@return Specifies the <code>DomainName</code>\n"
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p> Specifies the <code>DomainName</code>.
@param domainName Specifies the <code>DomainName</code>.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p> Specifies the <code>DomainName</code>.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "DomainInfo",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "DomainInfo",
  "variableName" : "domainInfo",
  "variableType" : "DomainInfo",
  "documentation" : null,
  "simpleType" : "DomainInfo",
  "variableSetterType" : "DomainInfo"
},
"wrapper" : false
},
"EBSOptions" : {
  "c2jName" : "EBSOptions",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Options to enable, disable, and specify the properties of EBS storage volumes. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs" target="_blank"> Configuring EBS-based Storage</a>.",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [ { 
    "beanStyleGetMethod" : "getEbsEnabled",
    "beanStyleSetterMethodName" : "setEbsEnabled",
    "c2jName" : "EBSEnabled",
    "c2jShape" : "Boolean" 
  } ]
}
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.\nThis is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}\nWhen the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link Boolean#ebsEnabled(Boolean)}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #ebsEnabled(Boolean)",
  "deprecated" : false,
  "documentation" : "<p>Specifies whether EBS-based storage is enabled.\n\nWhen the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link Boolean#ebsEnabled(Boolean)}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #ebsEnabled(Boolean)",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "ebsEnabled",
  "fluentSetterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.\n\nWhen the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link Boolean#ebsEnabled(Boolean)}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #ebsEnabled(Boolean)",
  "fluentSetterMethodName" : "ebsEnabled",
  "getterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.\n\nWhen the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link Boolean#ebsEnabled(Boolean)}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #ebsEnabled(Boolean)",
  "getterModel" : {
    "returnType" : "Boolean",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "EBSEnabled",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "EBSEnabled",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
"marshallerType" : "BOOLEAN",
"name" : "EBSEnabled",
"setterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>
@param ebsEnabled Specifies whether EBS-based storage is enabled."

"setterMethodName" : "setEbsEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "ebsEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "ebsEnabled",
  "variableType" : "Boolean",
  "documentation" : "<p>SPECIFIES WHETHER EBS-BASED STORAGE IS ENABLED.</p>
@PARAM ebsEnabled SPECIFIES WHETHER EBS-BASED STORAGE IS ENABLED.",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},

{ "beanStyleGetterMethodName" : "getVolumeTypeAsString",
 "beanStyleSetterMethodName" : "setVolumeType",
 "c2jName" : "VolumeType",
 "c2jShape" : "VolumeType",
 "defaultConsumerFluentSetterDocumentation" : "<p>SPECIFIES THE VOLUME TYPE FOR EBS-BASED STORAGE.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #volumeTypeAsString(String)}.
@param volumeType a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #volumeType(String)",
  "deprecated" : false,
  "documentation" : "<p>SPECIFIES THE VOLUME TYPE FOR EBS-BASED STORAGE.</p>",
  "enumType" : "VolumeType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "volumeType",
  "fluentEnumSetterMethodName" : "volumeType",
  "fluentGetterMethodName" : "volumeTypeAsString",
  "fluentSetterDocumentation" : "<p>SPECIFIES THE VOLUME TYPE FOR EBS-BASED STORAGE.</p>
@PARAM volumeType Specifies the volume type for EBS-based storage.){@link VolumeType}{@link return Returns a reference to this object so that method calls can be chained together.}
@see VolumeType",
  "fluentSetterMethodName" : "volumeType"
If the service returns an enum value that is not available in the current SDK version, [@link #volumeType] will return [@link VolumeType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #volumeTypeAsString].

@return Specifies the volume type for EBS-based storage.

@see VolumeType

Specifies the volume type for EBS-based storage.

@param volumeType

@see VolumeType

"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "volumeType",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "volumeType",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,
"statusCode": false,
"unmarshallLocationName": "VolumeSize",
"uri": false
],
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "VolumeSize",
"setterDocumentation": "<p> Integer to specify the size of an EBS volume.</p>
@param volumeSize Integer to specify the size of an EBS volume.",
"setterMethodName": "setVolumeSize",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "volumeSize",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "volumeSize",
  "variableType": "Integer",
  "documentation": "<p> Integer to specify the size of an EBS volume.\n</p>",
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
}, {
  "beanStyleGetterMethodName": "getIops",
  "beanStyleSetterMethodName": "setIops",
  "c2jName": "Iops",
  "c2jShape": "IntegerClass",
  "defaultValueConsumerFluentSetterDocumentation": "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>
This is a convenience that creates an instance of the [ @link Integer.Builder] avoiding the need to create one manually via [ @link Integer#builder()].

When the [ @link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [ @link #iops(Integer)].

@param iops a consumer that will call methods on [ @link Iops(Integer)].

@return Returns a reference to this object so that method calls can be chained together.

@see #iops(Integer)",
  "deprecated": false,
  "documentation": "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\n</p>"
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "iops",
"fluentSetterDocumentation": 
"<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
@param iops Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
@return Returns a reference to this object so that method calls can be chained together.
</p>"
"fluentSetterMethodName": "iops",
"getterDocumentation": 
"<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
@return Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
</p>"
"getterModel": {
"returnType": "Integer",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Iops",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Iops",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "Iops",
"setterDocumentation": 
"<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
@param iops Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).
</p>"
"setterMethodName": "setIops",
"setterModel": {
"variableDeclarationType": "Integer",
"variableName": "iops",
"variableType": "Integer"}
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "EBSEnabled",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EBSEnabled",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "EBSEnabled",
"setterDocumentation" : "<p>Specifies whether EBS-based storage is enabled.</p>
@param ebsEnabled
Specifies whether EBS-based storage is enabled.",
"setterMethodName" : "setEbsEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "ebsEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "ebsEnabled",
  "variableType" : "Boolean",
  "documentation" : "<p>Specifies whether EBS-based storage is enabled.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"Iops" : {
"beanStyleGetterMethodName" : "getIops",
"beanStyleSetterMethodName" : "setIops",
"c2jName" : "Iops",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).&lt;/p&gt;&lt;p&gt;This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}.&lt;/p&gt;&lt;p&gt;When the {@link Consumer} completes, the method calls on the Integer.Builder#build() is called immediately and its result is passed to the method (Integer).&lt;/p&gt;

@link #iops(String) consumer that will call methods on the Integer.Builder&lt;p&gt;@return Returns a reference to this object so that method calls can be chained together.&lt;/p&gt;&lt;p&gt;@see #iops(String)"

"deprecated" : false,
"documentation" : "&lt;p&gt;Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).&lt;/p&gt;&quot;
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "iops",
"fluentSetterDocumentation" : "&lt;p&gt;Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).&lt;/p&gt;&lt;p&gt;Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).&lt;/p&gt;&lt;p&gt;@return Returns a reference to this object so that method calls can be chained together.&lt;/p&gt;

"fluentSetterMethodName" : "iops",
"getterDocumentation" : "&lt;p&gt;Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).&lt;/p&gt;&lt;p&gt;Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).&lt;/p&gt;&lt;p&gt;@return Returns a reference to this object so that method calls can be chained together.&lt;/p&gt;

"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Iops",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Iops",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "iops",
"setterDocumentation": "\<p\>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\</p\>\n@param iops Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).",
"setterMethodName": "setIops",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "iops",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "iops",
  "variableType": "Integer",
  "documentation": "\<p\>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\</p\>",
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
},
"VolumeSize": {
  "beanStyleGetterMethodName": "getVolumeSize",
  "beanStyleSetterMethodName": "setVolumeSize",
  "c2jName": "VolumeSize",
  "c2jShape": "IntegerClass",
  "defaultConsumerFluentSetterDocumentation": "\<p\> Integer to specify the size of an EBS volume.\</p\>\nThis is a convenience that creates an instance of the \{@link Integer.Builder\} avoiding the need to create one manually via \{@link Integer#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link Integer.Builder#build()\} is called immediately and its result is passed to \{@link #volumeSize(Integer)\}.\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #volumeSize(Integer)",
  "deprecated": false,
  "documentation": "\<p\> Integer to specify the size of an EBS volume.\</p\>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "volumeSize",
  "fluentSetterDocumentation": "\<p\> Integer to specify the size of an EBS volume.\</p\>\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #volumeSize(Integer)"}
Integer to specify the size of an EBS volume.

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "volumeSize",
"getterDocumentation" : "<p>Integer to specify the size of an EBS volume.</p>

@returns Integer to specify the size of an EBS volume.

"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "VolumeSize",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "VolumeSize",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "VolumeSize",
"setterDocumentation" : "<p>Integer to specify the size of an EBS volume.</p>

@returns Integer to specify the size of an EBS volume.

"setterMethodName" : "setVolumeSize",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "volumeSize",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},

"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "volumeSize",
"variableType" : "Integer",
"documentation" : "<p> Integer to specify the size of an EBS volume.</p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"VolumeType" : {
"beanStyleGetterMethodName" : "getVolumeTypeAsString",
"beanStyleSetterMethodName" : "setVolumeType",
"c2jName" : "VolumeType",
"c2jShape" : "VolumeType",
"defaultValueFluentSetterDocumentation" : "<p> Specifies the volume type for EBS-based storage.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to
create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link
String.Builder#build()} is called immediately and its result is passed to {@link
#volumeTypeAsString(String)}. @param volumeType a consumer that will call methods on {@link
String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see
#volumeType(String)",
"deprecated" : false,
"documentation" : "<p> Specifies the volume type for EBS-based storage.</p>",
"enumType" : "VolumeType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "volumeType",
"fluentEnumSetterMethodName" : "volumeType",
"fluentGetterMethodName" : "volumeTypeAsString",
"fluentSetterDocumentation" : "<p> Specifies the volume type for EBS-based storage.</p>
@see VolumeType
@return Returns a reference to this object so that method calls can be chained together.
@see VolumeType",
"getterDocumentation" : "<p> Specifies the volume type for EBS-based storage.</p>
If the service
returns an enum value that is not available in the current SDK version, {@link #volumeType} will return {@link
VolumeType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link
#volumeTypeAsString}. @return Specifies the volume type for EBS-based storage.@see VolumeType",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
Specifies the volume type for EBS-based storage.

@see VolumeType

"setterMethodName" : "setVolumeType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "volumeType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "volumeType",
  "variableType" : "String",
  "documentation" : "Specifies the volume type for EBS-based storage.

@see VolumeType",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ 
  "beanStyleGetterMethodName" : "getEbsEnabled",
  "beanStyleSetterMethodName" : "setEbsEnabled",
  "c2jName" : "EBSEnabled",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "Specifies whether EBS-based storage is
This is a convenience that creates an instance of the {link Boolean.Builder} avoiding the need to create one manually via {link Boolean#builder()}. When the {link Consumer} completes, {link BooleanBuilder#build()} is called immediately and its result is passed to {link #ebsEnabled(Boolean)}. Returns a reference to this object so that method calls can be chained together.

Specifies whether EBS-based storage is enabled.

@see #ebsEnabled(Boolean)

### ebsEnabled

```
@deprecated
```

Specifies whether EBS-based storage is enabled.

@link Boolean.Builder#build()
Specifies whether EBS-based storage is enabled. 

@param ebsEnabled Specifies whether EBS-based storage is enabled.

@see EBSEnabled

@deprecated 

@see VolumeType

@see VolumeType

If the service
returns an enum value that is not available in the current SDK version, [@link #volumeType] will return [@link VolumeType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #volumeTypeAsString].

```java
@return Specifies the volume type for EBS-based storage.
@see VolumeType,

```

getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "VolumeType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "VolumeType",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "VolumeType",

"setterDocumentation" : "<p> Specifies the volume type for EBS-based storage.</p>

"setterMethodName" : "setVolumeType",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "volumeType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "volumeType",
```
"variableType" : "String",
"documentation" : "<p> Specifies the volume type for EBS-based storage.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
],
{
"beanStyleGetterMethodName" : "getVolumeSize",
"beanStyleSetterMethodName" : "setVolumeSize",
"c2jName" : "VolumeSize",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #volumeSize(Integer)}.

@param volumeSize a consumer that will call methods on {@link Integer.Builder}\n@return Returns a reference to this object so that method calls can be chained together.

@see #volumeSize(Integer)",
"deprecated" : false,
"documentation" : "<p> Integer to specify the size of an EBS volume.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "volumeSize",
"fluentSetterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
@param volumeSize Integer to specify the size of an EBS volume.
@return Returns a reference to this object so that method calls can be chained together.

@see #volumeSize(Integer)",
"fluentSetterMethodName" : "volumeSize",
"getterDocumentation" : "<p> Integer to specify the size of an EBS volume.</p>
@return Integer to specify the size of an EBS volume.

@see #volumeSize(Integer)",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VolumeSize",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VolumeSize",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "VolumeSize",
"setterDocumentation" : "\n<p> Integer to specify the size of an EBS volume.\n</p>@param volumeSize Integer to specify the size of an EBS volume.\n",
"setterMethodName" : "setVolumeSize",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "volumeSize",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "volumeSize",
  "variableType" : "Integer",
  "documentation" : "\n<p> Integer to specify the size of an EBS volume.\n</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getIops",
  "beanStyleSetterMethodName" : "setIops",
  "c2jName" : "Iops",
  "c2jShape" : "IntegerClass",
  "defaultValueConsumerFluentSetterDocumentation" : "\n<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\n</p>\nThis is a convenience that creates an instance of the { @link Integer.Builder } avoiding the need to create one manually via { @link Integer#builder() }.\n\nWhen the { @link Consumer } completes, { @link Integer.Builder#build() } is called immediately and its result is passed to { @link #iops(Integer) }.\n@param iops a consumer that will call methods on { @link Integer.Builder }\n@return Returns a reference to this object so that method calls can be chained together.\n@see #iops(Integer)",
  "deprecated" : false,
  "documentation" : "\n<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\n</p>",
  "enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentMethodName" : "iops",
"fluentSetterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\n@param iops Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\n@return Returns a reference to this object so that method calls can be chained together.\n</p>\n@return Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\n",
"fluentSetterMethodName" : "iops",
"getterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\n@return Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\n",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "iops",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "iops",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "iops",
"setterDocumentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\n@param iops Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).\n",
"setterMethodName" : "setIops",
"setterModel" : {
"variableDeclarationType" : "Integer",
"variableName" : "iops",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "iops",
  "variableType" : "Integer",
  "documentation" : "<p>Specifies the IOPD for a Provisioned IOPS EBS volume (SSD).</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
] }
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "EBSOptions",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
  "documentation" : null,
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"wrapper" : false
},
"EBSOptionsStatus" : {
  "c2jName" : "EBSOptionsStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Status of the EBS options for the specified Elasticsearch domain.</p>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ 
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "EBSOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. </p>\nThis is a convenience that creates an instance of the [@link EBSOptions.Builder] avoiding the need to create one manually via [@link EBSOptions#builder()].\nWhen the [@link Consumer] completes, [@link EBSOptions.Builder#build()] is called immediately and its result is passed to [@link #options(EBSOptions)]\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #options(EBSOptions)",
    "deprecated" : false,
    "documentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. </p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "options",
    "fluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. </p>\n@param options Specifies the EBS options for the specified Elasticsearch domain.\n@returns Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "options",
    "getterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. </p>\n@returns Specifies the EBS options for the specified Elasticsearch domain.",
    "getterModel" : {
        "returnType" : "EBSOptions",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "httpAdditionalMarshallingPath" : null,
        "httpAdditionalUnmarshallingPath" : null,
        "httpFlattened" : false,
        "httpGreedy" : false,
        "httpHeader" : false,
        "httpIsPayload" : false,
        "httpIsStreaming" : false,
        "httpLocation" : null,
        "httpMarshallLocation" : "PAYLOAD",
        "httpParameters" : null,
        "httpResponseBodyMember" : null
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    "httpAttribute" : false,
    "httpAttributePassing" : false,
    "httpBodyMember" : false,
    "httpResponseMember" : false
}
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "\<p> Specifies the EBS options for the specified Elasticsearch domain.\</p>\n@param options Specifies the EBS options for the specified Elasticsearch domain.\",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "options",
  "variableType" : "EBSOptions",
  "documentation" : null,
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "options",
  "variableType" : "EBSOptions",
  "documentation" : "\<p> Specifies the EBS options for the specified Elasticsearch domain.\</p>\",
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
{"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "\<p> Specifies the status of the EBS options for the specified Elasticsearch domain.\</p>\n\@param status a consumer that will call methods on \@link OptionStatus.Builder\n\@return Returns a reference to this object so that method calls can be chained
"deprecated" : false,
"documentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>
@param status Specifies the status of the EBS options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>
@param status Specifies the status of the EBS options for the specified Elasticsearch domain.
@return Specifies the status of the EBS options for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
}}
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : null,
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p>",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlnsNameSpaceUri" : null
}],
"membersAsMap" : {
"Options" : {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>\nThis is a convenience that creates an instance of the {@link EBSOptions.Builder} avoiding the need to create one manually via {@link EBSOptions#builder()}.\nWhen the {@link Consumer} completes, {@link EBSOptions.Builder#build()} is called immediately and its result is passed to {@link 
#options(EBSOptions)}.\n@param options a consumer that will call methods on {@link 
EBSOptions.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(EBSOptions)",
"deprecated" : false,
"documentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>\n@returns\nSpecifies the EBS options for the specified Elasticsearch domain.\n@returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>\n@return\nSpecifies the EBS options for the specified Elasticsearch domain.",
"getterModel" : {
"returnType" : "EBSOptions",
"parameterType" : "EBSOptions"
}}

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"documentation" : null,
],
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. </p>

@param options Specifies the EBS options for the specified Elasticsearch domain."
,"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "options",
  "variableType" : "EBSOptions",
  "documentation" : null,
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "options",
  "variableType" : "EBSOptions",
  "documentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain. </p>",
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
"Status" : {
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}.

When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link #status(OptionStatus)}.

@returns Returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>
@see #status(OptionStatus)",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>
@returns Returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)",
"getterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>
@returns Specifies the status of the EBS options for the specified Elasticsearch domain.

@see #status(OptionStatus)",
"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
}.
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the EBS options for the specified Elasticsearch domain."
,"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.</p>
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getOptions",
  "beanStyleSetterMethodName" : "setOptions",
  "c2jName" : "Options",
  "c2jShape" : "EBSOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>"
},
This is a convenience that creates an instance of the { @link EBSOptions.Builder} avoiding the need to create one manually via { @link EBSOptions#builder}.
When the { @link Consumer} completes, { @link EBSOptions.Builder#build} is called immediately and its result is passed to { @link #options(EBSOptions)}.
@throws IllegalArgumentException if the result of the consumer is not a valid instance of { @link EBSOptions.Builder}

\n\n\n\n@see #options(EBSOptions)
\n@deprecated" : false,
"documentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.\n@return Specifies the EBS options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
  "returnType" : "EBSOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the EBS options for the specified Elasticsearch domain.\n@return Specifies the EBS options for the specified Elasticsearch domain."
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "options",
  "variableType" : "EBSOptions",
  "documentation" : null,
}
"simpleType": "EBSOptions",
"variableSetterType": "EBSOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "EBSOptions",
"variableName": "options",
"variableType": "EBSOptions",
"documentation": "<p> Specifies the EBS options for the specified Elasticsearch domain. </p>",
"simpleType": "EBSOptions",
"variableSetterType": "EBSOptions"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>\nThis is a convenience that creates an instance of the { @link OptionStatus.Builder } avoiding the need to create one manually via { @link OptionStatus.Builder#builder() }.\n\nWhen the { @link Consumer } completes, { @link OptionStatus.Builder#build() } is called immediately and its result is passed to { @link #status(OptionStatus) }\n@see #status(OptionStatus)",
"deprecated": false,
"documentation": "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>
\n@param status a consumer that will call methods on { @link OptionStatus.Builder }\n@return Returns a reference to this object so that method calls can be chained together.\n@see #status(OptionStatus)",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "status",
"fluentSetterDocumentation": "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>\n@return Specifies the status of the EBS options for the specified Elasticsearch domain.\n@see #status(OptionStatus)",
"fluentSetterMethodName": "status",
"getterDocumentation": "<p> Specifies the status of the EBS options for the specified Elasticsearch domain. </p>\n@return Specifies the status of the EBS options for the specified Elasticsearch domain.\n@see #status(OptionStatus)",
"getterModel": {
"returnType": "OptionStatus",
"documentation": null
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"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch
domain.<p Blasiopt param status Specifies the status of the EBS options for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
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"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p> Specifies the status of the EBS options for the specified Elasticsearch domain.<p />",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
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"xmlNameSpaceUri" : null
}
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "EBSOptionsStatus",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "EBSOptionsStatus",
  "variableName": "ebsOptionsStatus",
  "variableType": "EBSOptionsStatus",
  "documentation": null,
  "simpleType": "EBSOptionsStatus",
  "variableSetterType": "EBSOptionsStatus"
},
"wrapper": false
},
"ESPartitionInstanceType": {
  "c2jName": "ESPartitionInstanceType",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
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  "documentation": "",
  "enums": [
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      "name": "M3_MEDIUM_ELASTICSEARCH",
      "value": "m3.medium.elasticsearch"
    },
    {
      "name": "M3_LARGE_ELASTICSEARCH",
      "value": "m3.large.elasticsearch"
    },
    {
      "name": "M3_XLARGE_ELASTICSEARCH",
      "value": "m3.xlarge.elasticsearch"
    },
    {
      "name": "M3_2_XLARGE_ELASTICSEARCH",
      "value": "m3.2xlarge.elasticsearch"
    },
    {
      "name": "M4_LARGE_ELASTICSEARCH",
      "value": "m4.large.elasticsearch"
    },
    {
      "name": "M4_XLARGE_ELASTICSEARCH",
      "value": "m4.xlarge.elasticsearch"
    },
    {
      "name": "M4_2_XLARGE_ELASTICSEARCH",
      "value": "m4.2xlarge.elasticsearch"
    }
  ]}
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"value" : "m4.4xlarge.elasticsearch"
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"name" : "M4_10_XLARGE_ELASTICSEARCH",
"value" : "m4.10xlarge.elasticsearch"
},
"name" : "T2_MICRO_ELASTICSEARCH",
"value" : "t2.micro.elasticsearch"
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"name" : "T2_SMALL_ELASTICSEARCH",
"value" : "t2.small.elasticsearch"
},
"name" : "T2_MEDIUM_ELASTICSEARCH",
"value" : "t2.medium.elasticsearch"
},
"name" : "R3_LARGE_ELASTICSEARCH",
"value" : "r3.large.elasticsearch"
},
"name" : "R3_XLARGE_ELASTICSEARCH",
"value" : "r3.xlarge.elasticsearch"
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"name" : "R3_2_XLARGE_ELASTICSEARCH",
"value" : "r3.2xlarge.elasticsearch"
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"name" : "R3_4_XLARGE_ELASTICSEARCH",
"value" : "r3.4xlarge.elasticsearch"
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"name" : "R3_8_XLARGE_ELASTICSEARCH",
"value" : "r3.8xlarge.elasticsearch"
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"name" : "I2_XLARGE_ELASTICSEARCH",
"value" : "i2.xlarge.elasticsearch"
},
"name" : "I2_2_XLARGE_ELASTICSEARCH",
"value" : "i2.2xlarge.elasticsearch"
},
"name" : "D2_XLARGE_ELASTICSEARCH",
"value" : "d2.xlarge.elasticsearch"
},
"name" : "D2_2_XLARGE_ELASTICSEARCH",
"value" : "d2.2xlarge.elasticsearch"
},
"name" : "D2_4_XLARGE_ELASTICSEARCH",
"value" : "d2.4xlarge.elasticsearch"
},
"name" : "D2_8_XLARGE_ELASTICSEARCH",
"value" : "d2.8xlarge.elasticsearch"
}
"name" : "C4_LARGE_ELASTICSEARCH",
"value" : "c4.large.elasticsearch"
}, {
"name" : "C4_XLARGE_ELASTICSEARCH",
"value" : "c4.xlarge.elasticsearch"
}, {
"name" : "C4_2_XLARGE_ELASTICSEARCH",
"value" : "c4.2xlarge.elasticsearch"
}, {
"name" : "C4_4_XLARGE_ELASTICSEARCH",
"value" : "c4.4xlarge.elasticsearch"
}, {
"name" : "C4_8_XLARGE_ELASTICSEARCH",
"value" : "c4.8xlarge.elasticsearch"
}, {
"name" : "R4_LARGE_ELASTICSEARCH",
"value" : "r4.large.elasticsearch"
}, {
"name" : "R4_XLARGE_ELASTICSEARCH",
"value" : "r4.xlarge.elasticsearch"
}, {
"name" : "R4_2_XLARGE_ELASTICSEARCH",
"value" : "r4.2xlarge.elasticsearch"
}, {
"name" : "R4_4_XLARGE_ELASTICSEARCH",
"value" : "r4.4xlarge.elasticsearch"
}, {
"name" : "R4_8_XLARGE_ELASTICSEARCH",
"value" : "r4.8xlarge.elasticsearch"
}, {
"name" : "R4_16_XLARGE_ELASTICSEARCH",
"value" : "r4.16xlarge.elasticsearch"
}, {
"name" : "I3_LARGE_ELASTICSEARCH",
"value" : "i3.large.elasticsearch"
}, {
"name" : "I3_XLARGE_ELASTICSEARCH",
"value" : "i3.xlarge.elasticsearch"
}, {
"name" : "I3_2_XLARGE_ELASTICSEARCH",
"value" : "i3.2xlarge.elasticsearch"
}, {
"name" : "I3_4_XLARGE_ELASTICSEARCH",
"value" : "i3.4xlarge.elasticsearch"
}, {
"name" : "I3_8_XLARGE_ELASTICSEARCH",
"value" : "i3.8xlarge.elasticsearch"
}.
"name": "i3_16_XLARGE_ELASTICSEARCH",
"value": "i3.16xlarge.elasticsearch"
}]
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [],
"membersAsMap": {},
"nonStreamingMembers": [],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "ESPartitionInstanceType",
"simpleMethod": false,
"marshaller": {
"flattened": false,
"resultWrapper": null
},
"variable": {
"variableDeclarationType": "ESPartitionInstanceType",
"variableName": "esPartitionInstanceType",
"variableType": "ESPartitionInstanceType",
"documentation": null,
"simpleType": "ESPartitionInstanceType",
"variableSetterType": "ESPartitionInstanceType"
},
"wrapper": false
},
"ElasticsearchClusterConfig": {
"c2jName": "ElasticsearchClusterConfig",
"customization": {
"artificialResultWrapper": null,
"skipGeneratingMarshaller": false,
"skipGeneratingModelClass": false,
"skipGeneratingUnmarshaller": false,
"staxTargetDepthOffset": 0
},
"deprecated": false,
"documentation": "<p>Specifies the configuration for the domain cluster, such as the type and number of instances.</p>"},
"enums": null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getInstanceTypeAsString",
  "beanStyleSetterMethodName" : "setInstanceType",
  "c2jName" : "InstanceType",
  "c2jShape" : "ESPartitionInstanceType",
  "defaultConsumerFluentSetterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #instanceTypeAsString(String)\}.\n\n@param instanceType a consumer that will call methods on \{@link String.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #instanceType(String)",
  "deprecated" : false,
  "documentation" : "<p>The instance type for an Elasticsearch cluster.</p>",
  "enumType" : "ESPartitionInstanceType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "instanceType",
  "fluentEnumSetterMethodName" : "instanceType",
  "fluentGetterMethodName" : "instanceTypeAsString",
  "fluentSetterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>
### This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #instanceTypeAsString(String)\}.\n\n@param instanceType a consumer that will call methods on \{@link String.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #instanceType(String)",
  "fluentSetterMethodName" : "instanceType",
  "getterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>
### The instance type for an Elasticsearch cluster.\n\n@see ESPartitionInstanceType\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see ESPartitionInstanceType",
  "getterModel" : { 
    "returnType" : "String",
    "documentation" : null 
  },
  "http" : { 
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceType",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "InstanceType",
"setterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>
@see ESPartitionInstanceType",
"setterMethodName" : "setInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : "<p>The instance type for an Elasticsearch cluster.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"defaultConsumerFluentSetterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>

This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to
create one manually via \{@link Integer#builder()\}. When the \{@link Consumer\} completes, \{@link Integer.Builder#build()\} is called immediately and its result is passed to \{@link #instanceCount(Integer)\}. \n\n@param instanceCount a consumer that will call methods on \{@link Integer.Builder\} \n\n@return Returns a reference to this object so that method calls can be chained together. \n\n@see #instanceCount(Integer)
"deprecated" : false, 
"documentation" : "<p>The number of instances in the specified domain cluster. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceCount",
"fluentSetterDocumentation" : "<p>The number of instances in the specified domain cluster. </p>
@param instanceCount The number of instances in the specified domain cluster.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "instanceCount",
"getterDocumentation" : "<p>The number of instances in the specified domain cluster. </p>
@return The number of instances in the specified domain cluster.",
"getterModel" : { 
"returnType" : "Integer",
"documentation" : null 
},
"http" : { 
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceCount",
"uri" : false 
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "instanceCount","
"setterDocumentation" : "The number of instances in the specified domain cluster.
@param instanceCount The number of instances in the specified domain cluster.

"setterMethodName" : "setInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : "The number of instances in the specified domain cluster.

"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getDedicatedMasterEnabled",
"beanStyleSetterMethodName" : "setDedicatedMasterEnabled",
"c2jName" : "DedicatedMasterEnabled",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "A boolean value to indicate whether a dedicated master
node is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-
managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master
Nodes</a> for more information.&lt;/p&gt;&lt;p&gt;This is a convenience that creates an instance of the {@link
Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}.&lt;/p&gt;When the {@link
Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link
#dedicatedMasterEnabled(Boolean)}&lt;ref name="dedicatedMasterEnabled(Boolean)"&gt;Returns a reference to this object so that method calls can be chained
together.&lt;/ref&gt;&lt;para&gt;A boolean value to indicate whether a dedicated master node is enabled. See &lt;a
href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.&lt;/p&gt;&lt;p&gt;
"deprecated" : false,
"documentation" : "A boolean value to indicate whether a dedicated master node is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.&lt;/p&gt;";
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentMethodName" : "dedicatedMasterEnabled",
"fluentSetterDocumentation" : "A boolean value to indicate whether a dedicated master node is enabled. See
A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.

```json
"fluentSetterMethodName" : "dedicatedMasterEnabled",
"getterDocumentation" : "A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.

@return A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.

"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DedicatedMasterEnabled",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DedicatedMasterEnabled",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "DedicatedMasterEnabled",
"setterDocumentation" : "A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.

@param dedicatedMasterEnabled A boolean value to indicate whether a dedicated master node is enabled.

@return Returns a reference to this object so that method calls can be chained together.

"setterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
}
```

```json
"setterMethodName" : "setDedicatedMasterEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "dedicatedMasterEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "dedicatedMasterEnabled",
  "variableType" : "Boolean",
  "documentation" : "A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
}
```

```java
"beanStyleGetterMethodName" : "getZoneAwarenessEnabled",
"beanStyleSetterMethodName" : "setZoneAwarenessEnabled",
"c2jName" : "ZoneAwarenessEnabled",
"c2jShape" : "Boolean",

This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #zoneAwarenessEnabled(Boolean)}. This consumer accepts a Boolean and returns a reference to this object so that method calls can be chained together.

@see #zoneAwarenessEnabled(Boolean)
@deprecated" : false,
"documentation" : "A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
```

---

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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "zoneAwarenessEnabled",
"fluentSetterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="\_blank\">About Zone Awareness</a> for more information.&lt;/p&gt;&lt;p&gt;\@param zoneAwarenessEnabled A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="\_blank\">About Zone Awareness</a> for more information.&lt;/p&gt;&lt;p&gt;\@return Returns a reference to this object so that method calls can be chained together.&lt;/p&gt;",
"fluentSetterMethodName" : "zoneAwarenessEnabled",
"getterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="\_blank\">About Zone Awareness</a> for more information.&lt;/p&gt;&lt;p&gt;\@return A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="\_blank\">About Zone Awareness</a> for more information.&lt;/p&gt;",
"getterModel" : {
    "returnType" : "Boolean",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ZoneAwarenessEnabled",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ZoneAwarenessEnabled",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "ZoneAwarenessEnabled",
"setterDocumentation" : "&lt;p&gt;A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="\_blank\">About Zone Awareness</a> for more
A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.

```
"setterMethodName" : "setZoneAwarenessEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "zoneAwarenessEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "zoneAwarenessEnabled",
  "variableType" : "Boolean",
  "documentation" : "A boolean value to indicate whether zone awareness is enabled. See &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
}
```

"getterDocumentation" : "The instance type for a dedicated master node.
If the service returns an enum value that is not available in the current SDK version, [@link #dedicatedMasterType] will return [@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #dedicatedMasterTypeAsString].

@return The instance type for a dedicated master node.
@see ESPartitionInstanceType",

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DedicatedMasterType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DedicatedMasterType",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "DedicatedMasterType",

"setterDocumentation" : "The instance type for a dedicated master node.

@param dedicatedMasterType The instance type for a dedicated master node.

@see ESPartitionInstanceType",

"setterMethodName" : "setDedicatedMasterType",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "dedicatedMasterType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
"variableDeclarationType" : "String",
"variableName" : "dedicatedMasterType",
"variableType" : "String",
"documentation" : "<p>The instance type for a dedicated master node.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getDedicatedMasterCount",
"beanStyleSetterMethodName" : "setDedicatedMasterCount",
"c2jName" : "DedicatedMasterCount",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>
This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer#builder()].
When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link
#dedicatedMasterCount(Integer)].
@returns Returns a reference to this object so that method calls can be chained together.
@see #dedicatedMasterCount(Integer)",
"deprecated" : false,
"documentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "dedicatedMasterCount",
"fluentSetterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>
@returns Total number of dedicated master nodes, active and on standby, for the cluster.
@see #dedicatedMasterCount(Integer)",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",}
"marshallLocationName" : "DedicatedMasterCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DedicatedMasterCount",
"uri" : false
}
,"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "DedicatedMasterCount",
"setterDocumentation" : "Total number of dedicated master nodes, active and on standby, for the cluster.",
"setterMethodName" : "setDedicatedMasterCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "dedicatedMasterCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "dedicatedMasterCount",
  "variableType" : "Integer",
  "documentation" : "Total number of dedicated master nodes, active and on standby, for the cluster."
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "DedicatedMasterCount" : {
    "beanStyleGetterMethodName" : "getDedicatedMasterCount",
    "beanStyleSetterMethodName" : "setDedicatedMasterCount",
    "c2jName" : "DedicatedMasterCount",
    "c2jShape" : "IntegerClass",
    "defaultConsumerFluentSetterDocumentation" : "Total number of dedicated master nodes, active and on standby, for the cluster.
This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}.When the { @link Consumer} completes,
Integer.Builder#build()} is called immediately and its result is passed to { @link
#dedicatedMasterCount(Integer)}. @param dedicatedMasterCount a consumer that will call methods on { @link
Integer.Builder}\n@returns Returns a reference to this object so that method calls can be chained together. @see
#dedicatedMasterCount(Integer)

"deprecated" : false,
"documentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "dedicatedMasterCount",
"fluentSetterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the
cluster.</p>@param dedicatedMasterCount Total number of dedicated master nodes, active and on standby, for
the cluster. @returns Total number of dedicated master nodes, active and on standby, for the cluster.

"getterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the
cluster.</p>

@returns Total number of dedicated master nodes, active and on standby, for the cluster.",

"getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "DedicatedMasterCount",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "DedicatedMasterCount",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "DedicatedMasterCount",
"setterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the
cluster.

```java
@Param

/**
 * Total number of dedicated master nodes, active and on standby, for the cluster.
 */

@Setter
String dedicatedMasterCount = 0;

/**
 * A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.
 */

@DefaultConsumerFluentSetter
Boolean dedicatedMasterEnabled = Boolean.TRUE;
```

This is a convenience that creates an instance of the `Boolean.Builder` avoiding the need to create one manually via `Boolean.builder()`. When the `@link Consumer` completes, `Boolean.Builder#build()` is called immediately and its result is passed to `#dedicatedMasterEnabled(Boolean)`.

```java
@link

@See

@Deprecated
```

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A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.

```
@fluentSetterMethodName : "dedicatedMasterEnabled",

@getterDocumentation : "A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.

@getterModel : {
    "returnType" : "Boolean",
    "documentation" : null
},

@http : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "DedicatedMasterEnabled",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "DedicatedMasterEnabled",
    "uri" : false
},

@idempotencyToken : false,

@isBinary : false,

@jsonValue : false,

@list : false,

@listModel : null,

@map : false,

@mapModel : null,

@marshallingType : "BOOLEAN",

@name : "DedicatedMasterEnabled",

@setterDocumentation : "A boolean value to indicate whether a dedicated master node is enabled. See [About Dedicated Master Nodes](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes) for more information.
```
@param dedicatedMasterEnabled A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.

"setterMethodName" : "setDedicatedMasterEnabled",

"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "dedicatedMasterEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "dedicatedMasterEnabled",
  "variableType" : "Boolean",
  "documentation" : "A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information."
},
"xmlNameSpaceUri" : null

"DedicatedMasterType" : {
  "beanStyleGetterMethodName" : "getDedicatedMasterTypeAsString",
  "beanStyleSetterMethodName" : "setDedicatedMasterType",
  "c2jName" : "DedicatedMasterType",
  "c2jShape" : "ESPartitionInstanceType",
  "defaultConsumerFluentSetterDocumentation" : "The instance type for a dedicated master node.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #dedicatedMasterTypeAsString(String)}. Returns a reference to this object so that method calls can be chained together.

@see #dedicatedMasterType(String)",
  "deprecated" : false,
  "documentation" : "The instance type for a dedicated master node.

enumType" : "ESPartitionInstanceType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "dedicatedMasterType",
  "fluentEnumSetterMethodName" : "dedicatedMasterType",
  "fluentGetterMethodName" : "dedicatedMasterTypeAsString"}
"fluentSetterDocumentation" : "<p>The instance type for a dedicated master node.</p>
@param
@see ESPartitionInstanceType
@return
A reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType",
"fluentSetterMethodName" : "dedicatedMasterType",
"getterDocumentation" : "<p>The instance type for a dedicated master node.</p>
<p>If the service returns an enum value that is not available in the current SDK version, [@link #dedicatedMasterType] will return [@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #dedicatedMasterTypeAsString].</p>
@return
The instance type for a dedicated master node.
@see ESPartitionInstanceType",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DedicatedMasterType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DedicatedMasterType",
  "uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DedicatedMasterType",
"setterDocumentation" : "<p>The instance type for a dedicated master node.</p>
@param
@see ESPartitionInstanceType",
"setterMethodName" : "setDedicatedMasterType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "dedicatedMasterType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "dedicatedMasterType",
  "variableType" : "String",
  "documentation" : "\p> The instance type for a dedicated master node.\p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"InstanceCount" : {
  "beanStyleGetterMethodName" : "getInstanceCount",
  "beanStyleSetterMethodName" : "setInstanceCount",
  "c2jName" : "InstanceCount",
  "c2jShape" : "IntegerClass",
  "defaultConsumerFluentSetterDocumentation" : "\p> The number of instances in the specified domain cluster.\p>
This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}.\nWhen the { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #instanceCount(Integer)}\n@see #instanceCount(Integer)",
  "deprecated" : false,
  "documentation" : "\p> The number of instances in the specified domain cluster.\p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "instanceCount",
  "fluentSetterDocumentation" : "\p> The number of instances in the specified domain cluster.\p>
@see #instanceCount(Integer)",
  "getterDocumentation" : "\p> The number of instances in the specified domain cluster.\p>
@see #instanceCount(Integer)",
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceCount",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "InstanceCount",
"setterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
@param
instanceCount The number of instances in the specified domain cluster.",
"setterMethodName" : "setInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of instances in the specified domain cluster.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"InstanceType" : {
  "beanStyleGetterMethodName" : "getInstanceTypeAsString",
  "beanStyleSetterMethodName" : "setInstanceType",
  "c2jName" : "InstanceType",
  "c2jShape" : "ESPartitionInstanceType"
"defaultConsumerFluentSetterDocumentation" : "The instance type for an Elasticsearch cluster.
This is a convenience that creates an instance of the \{@link String.Builder} avoiding the need to create one manually via \{@link String#builder()\}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #instanceTypeAsString(String)}. @param instanceType a consumer that will call methods on {@link String.Builder} @return Returns a reference to this object so that method calls can be chained together.@see #instanceType(String)",
"deprecated" : false,
"documentation" : "The instance type for an Elasticsearch cluster.",
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "instanceType",
"fluentEnumSetterMethodName" : "instanceType",
"fluentGetterMethodName" : "instanceTypeAsString",
"fluentSetterDocumentation" : "The instance type for an Elasticsearch cluster.
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.@see ESPartitionInstanceType",
"fluentSetterMethodName" : "instanceType",
"getterDocumentation" : "The instance type for an Elasticsearch cluster.
If the service returns an enum value that is not available in the current SDK version, {@link #instanceType} will return {@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #instanceTypeAsString}. @return The instance type for an Elasticsearch cluster.@see ESPartitionInstanceType",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceType",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "InstanceType",
"setterDocumentation" : "The instance type for an Elasticsearch cluster.\n@param instanceType The instance type for an Elasticsearch cluster.\n@see ESPartitionInstanceType",
"setterMethodName" : "setInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : "The instance type for an Elasticsearch cluster.\n"SimpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"ZoneAwarenessEnabled" : {
  "beanStyleGetterMethodName" : "getZoneAwarenessEnabled",
  "beanStyleSetterMethodName" : "setZoneAwarenessEnabled",
  "c2jName" : "ZoneAwarenessEnabled",
  "c2jShape" : "Boolean",
  "defaultValueFluentSetterDocumentation" : "A boolean value to indicate whether zone awareness is enabled. See \nAnAbout Zone Awareness for more information.\n\nThis is a convenience that creates an instance of the \n{@link Boolean.Builder} avoiding the need to create one manually via \n{@link Boolean#builder()}.\nWhere the \n{@link Consumer} completes, \n{@link Boolean.Builder} is called immediately and its result is passed to \n{@link ZoneAwarenessEnabled(Boolean)} a consumer that will call methods on \n{@link Boolean.Builder}.\n\nWhen a reference to this object so that method calls can be chained together.\n\n@see #zoneAwarenessEnabled(Boolean)",
  "deprecated" : false,
  "documentation" : "A boolean value to indicate whether zone awareness is enabled. See \nAAbout Zone Awareness for more information.\n\nenumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "zoneAwarenessEnabled",
"fluentSetterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>
@param zoneAwarenessEnabled A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.
@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>
@return A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.",
"getterModel" : {
   "returnType" : "Boolean",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "ZoneAwarenessEnabled",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "ZoneAwarenessEnabled",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "ZoneAwarenessEnabled",
"setterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-

A boolean value to indicate whether zone awareness is enabled. See [About Zone Awareness](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness) for more information.

```java
public class ManagedDomains
{
    private ZoneAwareness zoneAwareness;

    public ZoneAwareness getZoneAwareness()
    {
        return zoneAwareness;
    }

    public void setZoneAwareness(ZoneAwareness zoneAwareness)
    {
        this.zoneAwareness = zoneAwareness;
    }
}
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String.Builder}`. When the `{@link Consumer} is called immediately and its result is passed to `{@link String#builder(String)}` a consumer that will call methods on `{@link String.Builder}`. Returns a reference to this object so that method calls can be chained together.

```java
public ESManagedDomains withZoneAwareness(ZoneAwareness zoneAwareness)
{
    return withZoneAwareness(zoneAwareness.toString());
}
```

```java
public ESManagedDomains withZoneAwareness(String zoneAwareness)
{
    this.zoneAwareness = new ZoneAwareness();
    this.zoneAwareness.setZoneAwarenessEnabled(true);
    this.zoneAwareness.setZoneAwarenessEnabled(true);
    return this;
}
```
The instance type for an Elasticsearch cluster.

```
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType
```

```
"fluentSetterMethodName" : "instanceType",
"getterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>\nIf the service returns an enum value that is not available in the current SDK version, [ @link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION ] will return [ @link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION ]. The raw value returned by the service is available from [ @link #instanceTypeAsString ].
@return The instance type for an Elasticsearch cluster.
@see ESPartitionInstanceType",

```
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceType",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "InstanceId",
"setterDocumentation" : "<p>The instance type for an Elasticsearch cluster.</p>\n@param instanceType The instance type for an Elasticsearch cluster.
@see ESPartitionInstanceType",

```
"setterMethod" : {
"variableDeclarationType" : "String",
"variableName" : "instanceType",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"setterMethodName" : "setInstanceType",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "instanceType",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String""}
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "instanceType",
  "variableType" : "String",
  "documentation" : "<p>The instance type for an Elasticsearch cluster.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getInstanceCount",
  "beanStyleSetterMethodName" : "setInstanceCount",
  "c2jName" : "InstanceCount",
  "c2jShape" : "IntegerClass",
  "defaultConsumerFluentSetterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer.Builder()}. When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #instanceCount(Integer)}.\n@see #instanceCount(Integer)",
  "deprecated" : false,
  "documentation" : "<p>The number of instances in the specified domain cluster.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "instanceCount",
  "fluentSetterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
@param instanceCount The number of instances in the specified domain cluster.
@return Returns a reference to this object so that method calls can be chained together.\n@see #instanceCount(Integer)",
  "getDocumentation" : "<p>The number of instances in the specified domain cluster.</p>
@return The number of instances in the specified domain cluster.",
  "getModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceCount",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "InstanceCount",
"setterDocumentation" : "<p>The number of instances in the specified domain cluster.</p>\
@param instanceCount The number of instances in the specified domain cluster."

"setterMethodName" : "setInstanceCount",
"setterModel" : {

  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"

},

"simple" : true,
"timestampFormat" : null,
"variable" : {

  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of instances in the specified domain cluster.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"

},

"xmlnsSpaceUri" : null
},

{".beanStyleGetterMethodName" : "getDedicatedMasterEnabled",
"beanStyleSetterMethodName" : "setDedicatedMasterEnabled",
"c2jName" : "DedicatedMasterEnabled",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Node</a>"
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #dedicatedMasterEnabled(Boolean)}.

@param dedicatedMasterEnabled a consumer that will call methods on
{@link Boolean.Builder}
@return Returns a reference to this object so that method calls can be chained
together.

@see #dedicatedMasterEnabled(Boolean)

"deprecated" : false,
"documentation" : "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "dedicatedMasterEnabled",
"fluentSetterDocumentation" : "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.</p>

@Deprecated
@return A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.

@getterDocumentation" : "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.</p>

@getreturnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DedicatedMasterEnabled",}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DedicatedMasterEnabled",
"uri" : false
},
:idempotencyToken" : false,
:"isBinary" : false,
:jsonValue" : false,
:list" : false,
:listModel" : null,
"map" : false,
"mapModel" : null,
.marshallingType" : "BOOLEAN",
"name" : "DedicatedMasterEnabled",
"setterDocumentation" : "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.</p>
@param dedicatedMasterEnabled A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information."
,"setterMethodName" : "setDedicatedMasterEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "dedicatedMasterEnabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "dedicatedMasterEnabled",
  "variableType" : "Boolean",
  "documentation" : "<p>A boolean value to indicate whether a dedicated master node is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-dedicatedmasternodes" target="_blank">About Dedicated Master Nodes</a> for more information.</p>"
   ,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getZoneAwarenessEnabled",
"beanStyleSetterMethodName" : "setZoneAwarenessEnabled",
"c2jName" : "ZoneAwarenessEnabled",
"c2jShape" : "Boolean",

"defaultConsumerFluentSetterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>

This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean.Builder}. When the {@link Consumer} completes, the result is passed to the builder. Returns a reference to this object so that method calls can be chained together.

@see #zoneAwarenessEnabled(Boolean)",

"deprecated" : false,

"documentation" : "A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.

@param zoneAwarenessEnabled a consumer that will call methods on the builder

@return Returns a reference to this object so that method calls can be chained together.

@see #zoneAwarenessEnabled(Boolean)"

"enumType" : null,

"fluentEnumGetterMethodName" : "zoneAwarenessEnabled",

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "zoneAwarenessEnabled",

"fluentSetterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.</p>

@param zoneAwarenessEnabled A boolean value to indicate whether zone awareness is enabled.

@return Returns a reference to this object so that method calls can be chained together.

@see #zoneAwarenessEnabled(Boolean)"

"getterDocumentation" : "<p>A boolean value to indicate whether zone awareness is enabled. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-managedomains.html#es-managedomains-zoneawareness" target="_blank">About Zone Awareness</a> for more information.

@return A boolean value to indicate whether zone awareness is enabled.

@see #zoneAwarenessEnabled(Boolean)"

"getterModel" : {

"returnType" : "Boolean",

"documentation" : null
},

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : false,

"header" : false,

"isPayload" : false,

"isStreaming" : false,

"location" : null,

"marshallLocation" : "PAYLOAD",

"marshallLocationClass" : null,

"additionalMarshallingLocation" : null,

"additionalUnmarshallingLocation" : null,

"generatorPattern" : null,

"parameterJsonType" : null,

"protocolJsonType" : null,

"isMarshallingTarget" : true,

"isUnmarshallingTarget" : true,

"isDataTransferObject" : false,

"isTMF420DataModel" : false,

"isUsageContextDataModel" : false}

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"marshallLocationName" : "ZoneAwarenessEnabled",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ZoneAwarenessEnabled",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "ZoneAwarenessEnabled",

"setterDocumentation" : "\nA boolean value to indicate whether zone awareness is enabled. See \nabout Zone Awareness for more information.\n\n@\nA boolean value to indicate whether zone awareness is enabled. See about Zone Awareness for more information.\n\nsetterMethodName" : "setZoneAwarenessEnabled",
"setterModel" : {

"variableDeclarationType" : "Boolean",
"variableName" : "zoneAwarenessEnabled",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",

"variableSetterType" : "Boolean"
},

"simple" : true,
"timestampFormat" : null,

"variable" : {

"variableDeclarationType" : "Boolean",
"variableName" : "zoneAwarenessEnabled",
"variableType" : "Boolean",

"documentation" : "A boolean value to indicate whether zone awareness is enabled. See about Zone Awareness for more information."
},

"simpleSetterType" : "Boolean"
},

"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getDedicatedMasterTypeAsString",
"beanStyleSetterMethodName" : "setDedicatedMasterType",
"c2jName" : "DedicatedMasterType",
"c2jShape" : "ESPartitionInstanceType"
"defaultConsumerFluentSetterDocumentation" : "<p>The instance type for a dedicated master node.</p>

This is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via {link String#builder()}. When the {link Consumer} completes, {link String.Builder#build()} is called immediately and its result is passed to {link dedicatedMasterTypeAsString(String)}. 

@param dedicatedMasterType a consumer that will call methods on {link String.Builder}.
@return Returns a reference to this object so that method calls can be chained together.

@see #dedicatedMasterType(String)",

"deprecated" : false,

"documentation" : "<p>The instance type for a dedicated master node.</p>

"enumType" : "ESPartitionInstanceType",

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : "dedicatedMasterType",

"fluentEnumSetterMethodName" : "dedicatedMasterType",

"fluentGetterMethodName" : "dedicatedMasterTypeAsString",

"fluentSetterDocumentation" : "<p>The instance type for a dedicated master node.</p>

@param dedicatedMasterType The instance type for a dedicated master node.

@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.

@see ESPartitionInstanceType",

"fluentSetterMethodName" : "dedicatedMasterType",

"getterDocumentation" : "<p>The instance type for a dedicated master node.</p>

If the service returns an enum value that is not available in the current SDK version, {link dedicatedMasterType} will return {link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {link dedicatedMasterTypeAsString}."

@see ESPartitionInstanceType",

"getterModel" : {

"returnType" : "String",

"documentation" : null
},

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : false,

"header" : false,

"isPayload" : false,

"isStreaming" : false,

"location" : null,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "DedicatedMasterType",

"queryString" : false,

"statusCode" : false,

"unmarshallLocationName" : "DedicatedMasterType",

"uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,
The instance type for a dedicated master node.

@see ESPartitionInstanceType

The instance type for a dedicated master node.

Total number of dedicated master nodes, active and on standby, for the cluster.

When the Consumer completes, Integer.Builder#build() is called immediately and its result is passed to dedicatedMasterCount(Integer).

Total number of dedicated master nodes, active and on standby, for the cluster.
the cluster.\n@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "dedicatedMasterCount",
"getterDocumentation" : "<p>Total number of dedicated master nodes, active and on standby, for the cluster.</p>
@return Total number of dedicated master nodes, active and on standby, for the cluster.
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DedicatedMasterCount",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DedicatedMasterCount",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "DedicatedMasterCount",
"setterDocumentation" : "Total number of dedicated master nodes, active and on standby, for the cluster.\n@param dedicatedMasterCount Total number of dedicated master nodes, active and on standby, for the cluster."
"setterMethodName" : "setDedicatedMasterCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "dedicatedMasterCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "dedicatedMasterCount",
"variableType" : "Integer",
"documentation" : "Total number of dedicated master nodes, active and on standby, for the cluster.",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
} ]
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ElasticsearchClusterConfig",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"wrapper" : false
},
"ElasticsearchClusterConfigStatus" : {
  "c2jName" : "ElasticsearchClusterConfigStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Specifies the configuration status for the specified Elasticsearch domain.",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
This is a convenience that creates an instance of the {ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via {ElasticsearchClusterConfig#builder()}. When the {@link Consumer} completes, {ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to {ElasticsearchClusterConfig}. When the {ElasticsearchClusterConfig.Builder} returns a reference to this object so that method calls can be chained together. Param options Specifies the cluster configuration for the specified Elasticsearch domain.

Getters and Setters:

### Fluent Getters

- **ElasticsearchClusterConfig**: fluent Getter Documentation

### Fluent Setters

- **Options**: fluent Setter Documentation

### Marshalling

- **Additional Marshalling Path**:
- **Additional Unmarshalling Path**:
- **Flattened**: false
- **Greedy**: false
- **Header**: false
- **IsPayload**: false
- **IsStreaming**: false
- **Location**: null
- **MarshalLocation**: "PAYLOAD"
- **MarshalLocationName**: "Options"
- **QueryString**: false
- **StatusCode**: false
- **UnmarshalLocationName**: "Options"
- **Uri**: false
Specifies the cluster configuration for the specified Elasticsearch domain.

```java
@DefaultConsumerFluentSetterDocumentation("<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>"
)

@DefaultConsumerFluentSetterDocumentation("<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>"
)

@DefaultConsumerFluentSetterDocumentation("<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>"
)

@DefaultConsumerFluentSetterDocumentation("<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>"
)
```

This is a convenience that creates an instance of the [@link OptionStatus.Builder] avoiding the need to create one manually via [@link OptionStatus#builder()].

When the [@link Consumer] completes, [@link OptionStatus.Builder#build()] is called immediately and its result is passed to [@link OptionStatus.Builder#status(OptionStatus)]

@DefaultConsumerFluentSetterDocumentation("<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>"
)

@DefaultConsumerFluentSetterDocumentation("<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>"
)

@DefaultConsumerFluentSetterDocumentation("<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>"
)

@DefaultConsumerFluentSetterDocumentation("<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>"
)
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of the configuration for the specified Elasticsearch domain.<p>\n@param status Specifies the status of the configuration for the specified Elasticsearch domain.<p>\n@return Returns a reference to this object so that method calls can be chained together.<p>.
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of the configuration for the specified Elasticsearch domain.<p>\n@return Specifies the status of the configuration for the specified Elasticsearch domain.<p>.
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>Specifies the status of the configuration for the specified Elasticsearch domain.<p>\n@param status Specifies the status of the configuration for the specified Elasticsearch domain.<p>.
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain. </p>",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
] },
"membersAsMap" : {
"Options" : {
"beanStyleGetterMethodName" : "getOptions",
"beanStyleSetterMethodName" : "setOptions",
"c2jName" : "Options",
"c2jShape" : "ElasticsearchClusterConfig",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain. </p>
This is a convenience that creates an instance of the { @link ElasticsearchClusterConfig.Builder } avoiding the need to create one manually via { @link ElasticsearchClusterConfig#builder() }.
When the { @link Consumer } completes, { @link ElasticsearchClusterConfig.Builder#build() } is called immediately and its result is passed to { @link #options(ElasticsearchClusterConfig) }.
@param options a consumer that will call methods on { @link ElasticsearchClusterConfig.Builder } that returns a reference to this object so that method calls can be chained together.
@see #options(ElasticsearchClusterConfig)",
"deprecated" : false,
"documentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain. </p>
Specifies the cluster configuration for the specified Elasticsearch domain.
@returns a reference to this object so that method calls can be chained together.
@see #options(ElasticsearchClusterConfig)",
"getterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain. </p>
Specifies the cluster configuration for the specified Elasticsearch domain.
@returns a reference to this object so that method calls can be chained together.
@see #options(ElasticsearchClusterConfig)",
"getterModel" : {
"returnType" : "ElasticsearchClusterConfig",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p>\n@param options Specifies the cluster configuration for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchClusterConfig",
"variableName" : "options",
"variableType" : "ElasticsearchClusterConfig",
"documentation" : null,
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "ElasticsearchClusterConfig",
"variableName" : "options",
"variableType" : "ElasticsearchClusterConfig",
"documentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain.</p>",
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
},
"Status" : {
"beanStyleGetterMethodName" : "getStatus",}
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain. This is a convenience that creates an instance of the { @link OptionStatus.Builder} avoiding the need to create one manually via { @link OptionStatus#builder()}.
When the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link OptionStatus#status(OptionStatus)}. @param status a consumer that will call methods on { @link OptionStatus.Builder}.
@return Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>

@param status Specifies the status of the configuration for the specified Elasticsearch domain.
@return Specifies the status of the configuration for the specified Elasticsearch domain.
\n\n\n\n@see #status(OptionStatus)",
"getterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>

@return Specifies the status of the configuration for the specified Elasticsearch domain.
\n\n\n\n@see #status(OptionStatus)",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
@param status Specifies the status of the configuration for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : null,
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain.</p>
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "ElasticsearchClusterConfig",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain. </p>
This is a convenience that creates an instance of the { @link ElasticsearchClusterConfig.Builder } avoiding the need to create one manually via { @link ElasticsearchClusterConfig#builder() }. When the { @link Consumer } completes, { @link ElasticsearchClusterConfig.Builder#build() } is called immediately and its result is passed to { @link #options(ElasticsearchClusterConfig) }.

@param options a consumer that will call methods on { @link ElasticsearchClusterConfig.Builder } \n@return Returns a reference to this object so that method calls can be chained together. \n@see #options(ElasticsearchClusterConfig)",
    "deprecated" : false,
    "documentation" : "<p> Specifies the cluster configuration for the specified Elasticsearch domain. </p>
"enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the cluster configuration for the specified Elasticsearch domain.</p>
@param options Specifies the cluster configuration for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the cluster configuration for the specified Elasticsearch domain.</p>
@return Specifies the cluster configuration for the specified Elasticsearch domain.",
"getterModel" : {
"returnType" : "ElasticsearchClusterConfig",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p>Specifies the cluster configuration for the specified Elasticsearch domain.</p>
@param options Specifies the cluster configuration for the specified Elasticsearch domain.
@return Specifies the cluster configuration for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchClusterConfig",
"variableName" : "options",
"variableType" : "ElasticsearchClusterConfig",
"documentation" : null,
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "ElasticsearchClusterConfig",
  "variableName": "options",
  "variableType": "ElasticsearchClusterConfig",
  "documentation": "<p>Specifies the cluster configuration for the specified Elasticsearch domain.</p>",
  "simpleType": "ElasticsearchClusterConfig",
  "variableSetterType": "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of the configuration for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {
  @link #status(OptionStatus)}.
@return Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
"deprecated": false,
"documentation": "<p>Specifies the status of the configuration for the specified Elasticsearch domain.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "status",
"fluentSetterDocumentation": "<p>Specifies the status of the configuration for the specified Elasticsearch domain.</p>
@param status Specifies the status of the configuration for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
"getterModel": {
  "returnType": "OptionStatus",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain. </p>
@param status Specifies the status of the configuration for the specified Elasticsearch domain.",

"setterMethodName" : "setStatus",

"setterModel" : {

"variableDeclarationType" : "OptionStatus",

"variableName" : "status",

"variableType" : "OptionStatus",

"documentation" : null,

"simpleType" : "OptionStatus",

"variableSetterType" : "OptionStatus"
}
,

"simple" : false,

"timestampFormat" : null,

"variable" : {

"variableDeclarationType" : "OptionStatus",

"variableName" : "status",

"variableType" : "OptionStatus",

"documentation" : "<p> Specifies the status of the configuration for the specified Elasticsearch domain. </p>
"simpleType" : "OptionStatus",

"variableSetterType" : "OptionStatus"
}
,

"xmlNameSpaceUri" : null
}
,

"requestSignerAware" : false,

"requestSignerClassFqcn" : null,

"required" : [ "Options", "Status" ],

"shapeName" : "ElasticsearchClusterConfigStatus",

"simpleMethod" : false,

"unmarshaller" : {

"flattened" : false,
"resultWrapper" : null,
],
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
  "variableName" : "elasticsearchClusterConfigStatus",
  "variableType" : "ElasticsearchClusterConfigStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfigStatus",
  "variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"wrapper" : false
],
"ElasticsearchDomainConfig" : {
  "c2jName" : "ElasticsearchDomainConfig",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "The configuration of an Elasticsearch domain.
",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [
    "beanStyleGetterMethodName" : "getElasticsearchVersion",
    "beanStyleSetterMethodName" : "setElasticsearchVersion",
    "c2jName" : "ElasticsearchVersion",
    "c2jShape" : "ElasticsearchVersionStatus",
    "defaultConsumerFluentSetterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain.
"\nThis is a convenience that creates an instance of the \{\link ElasticsearchVersionStatus.Builder\} avoiding the need to create one manually via \{\link ElasticsearchVersionStatus#builder()\}.
"\nWhen the \{\link Consumer\} completes, \{\link ElasticsearchVersionStatus.Builder#build()\} is called immediately and its result is passed to \{\link #elasticsearchVersion(ElasticsearchVersionStatus)\}.\n@param elasticsearchVersion a consumer that will call methods on \{\link ElasticsearchVersionStatus.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #elasticsearchVersion(ElasticsearchVersionStatus)",
  "deprecated" : false,
"documentation" : "String of format X.Y to specify version for the Elasticsearch domain."
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain. String of format X.Y to specify version for the Elasticsearch domain. Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain."
"getterModel" : {
"returnType" : "ElasticsearchVersionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchVersion",
"setterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain. String of format X.Y to specify version for the Elasticsearch domain."
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchVersionStatus",
"variableName" : "elasticsearchVersion"
"variableType": "ElasticsearchVersionStatus",
"documentation": null,
"simpleType": "ElasticsearchVersionStatus",
"variableSetterType": "ElasticsearchVersionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "ElasticsearchVersionStatus",
"variableName": "elasticsearchVersion",
"variableType": "ElasticsearchVersionStatus",
"documentation": "String of format X.Y to specify version for the Elasticsearch domain.",
"simpleType": "ElasticsearchVersionStatus",
"variableSetterType": "ElasticsearchVersionStatus"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getElasticsearchClusterConfig",
"beanStyleSetterMethodName": "setElasticsearchClusterConfig",
"c2jName": "ElasticsearchClusterConfig",
"c2jShape": "ElasticsearchClusterConfigStatus",
"defaultConsumerFluentSetterDocumentation": "Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
This is a convenience that creates an instance of the ElasticsearchClusterConfigStatus.Builder avoiding the need to create one manually via ElasticsearchClusterConfigStatus#builder().
When the Consumer completes, ElasticsearchClusterConfigStatus.Builder#build() is called immediately and its result is passed to ElasticsearchClusterConfig#elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)

When the @Consumer completes, ElasticsearchClusterConfigStatus.Builder#build() is called immediately and its result is passed to ElasticsearchClusterConfig#elasticsearchClusterConfig(ElasticsearchClusterConfigStatus)

@returns Returns a reference to this object so that method calls can be chained together.

@see ElasticsearchClusterConfigStatus",
"deprecated": false,
"documentation": "Specifies the ElasticsearchClusterConfig for the Elasticsearch domain."
,"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "elasticsearchClusterConfig",
"fluentSetterDocumentation": "Specifies the ElasticsearchClusterConfig for the Elasticsearch domain."
,"fluentSetterMethodName": "elasticsearchClusterConfig",
"getterDocumentation": "Specifies the ElasticsearchClusterConfig for the Elasticsearch domain."
,"getterModel": {
"returnType": "ElasticsearchClusterConfigStatus",
"@param elasticsearchClusterConfig Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
@returns Returns a reference to this object so that method calls can be chained together."
,"getterSetterMethodName": "elasticsearchClusterConfig",
"getterDocumentation": "Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
@returns Specifies the ElasticsearchClusterConfig for the Elasticsearch domain."
,"getterModel": {
"returnType": "ElasticsearchClusterConfigStatus",
"@param elasticsearchClusterConfig Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
@returns Returns a reference to this object so that method calls can be chained together."
,"getterSetterMethodName": "elasticsearchClusterConfig",
"getterDocumentation": "Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
@returns Specifies the ElasticsearchClusterConfig for the Elasticsearch domain."
,"getterModel": {
"returnType": "ElasticsearchClusterConfigStatus",
"@param elasticsearchClusterConfig Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
@returns Returns a reference to this object so that method calls can be chained together."
,"getterSetterMethodName": "elasticsearchClusterConfig",
"getterDocumentation": "Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
@returns Specifies the ElasticsearchClusterConfig for the Elasticsearch domain."
,"getterModel": {
"returnType": "ElasticsearchClusterConfigStatus",
"@param elasticsearchClusterConfig Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
@returns Returns a reference to this object so that method calls can be chained together."
,"getterSetterMethodName": "elasticsearchClusterConfig",
"getterDocumentation": "Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
@returns Specifies the ElasticsearchClusterConfig for the Elasticsearch domain."
,"getterModel": {
"returnType": "ElasticsearchClusterConfigStatus",
"@param elasticsearchClusterConfig Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
@returns Returns a reference to this object so that method calls can be chained together."
,"getterSetterMethodName": "elasticsearchClusterConfig",
"getterDocumentation": "Specifies the ElasticsearchClusterConfig for the Elasticsearch domain.
@returns Specifies the ElasticsearchClusterConfig for the Elasticsearch domain."
,"getterModel": {
"returnType": "ElasticsearchClusterConfigStatus",}
"setterDocumentation" : "Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.",
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfigStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfigStatus",
  "variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfigStatus",
  "documentation" : "Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.",
  "simpleType" : "ElasticsearchClusterConfigStatus"
"variableSetterType": "ElasticsearchClusterConfigStatus",
"xmlNameSpaceUri": null,
{"beanStyleGetterMethodName": "getEbsOptions",
"beanStyleSetterMethodName": "setEbsOptions",
"c2jName": "EBSOptions",
"c2jShape": "EBSOptionsStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.

This is a convenience that creates an instance of the <a href="#{link #EBSOptionsStatus.Builder}#{link #EBSOptionsStatus.Builder#builder()}">EBSOptionsStatus.Builder</a> avoiding the need to create one manually via <a href="#{link #EBSOptionsStatusBuilder#builder()}">EBSOptionsStatus.Builder#build()</a>.

When the <a href="#{link #Consumer}>Consumer</a> completes, <a href="#{link #EBSOptionsStatusBuilder#build()}">EBSOptionsStatus.Builder#build()</a> is called immediately and its result is passed to <a href="#{link #EbsOptions(EBSOptionsStatus)>ebsOptions(EBSOptionsStatus)}">@param ebsOptions a consumer that will call methods on <a href="#{link #EBSOptionsStatusBuilder#builder()}">EBSOptionsStatus.Builder</a>\n</p>
@return Returns a reference to this object so that method calls can be chained together.\n@see #ebsOptions(EBSOptionsStatus)\n"",
"deprecated": false,
"documentation": "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "ebsOptions",
"fluentSetterDocumentation": "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.
@return Specifies the <code>EBSOptions</code> for the Elasticsearch domain.
@see #ebsOptions(EBSOptionsStatus)\n"",
"getterDocumentation": "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@return Specifies the <code>EBSOptions</code> for the Elasticsearch domain.
@see #ebsOptions(EBSOptionsStatus)\n"",
"getterModel": {
"returnType": "EBSOptionsStatus",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "EBSOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "EBSOptions",
"uri": false
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "EBSOptions",
"setterDocumentation": "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>".
"setterMethodName": "setEbsOptions",
"setterModel": {
  "variableDeclarationType": "EBSOptionsStatus",
  "variableName": "ebsOptions",
  "variableType": "EBSOptionsStatus",
  "documentation": null,
  "simpleType": "EBSOptionsStatus",
  "variableSetterType": "EBSOptionsStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EBSOptionsStatus",
  "variableName": "ebsOptions",
  "variableType": "EBSOptionsStatus",
  "documentation": null,
  "simpleType": "EBSOptionsStatus",
  "variableSetterType": "EBSOptionsStatus"
},
"xmlNamespaceUri": null
},

"beanStyleGetterMethodName": "getAccessPolicies",
"beanStyleSetterMethodName": "setAccessPolicies",
"c2jName": "AccessPolicies",
"c2jShape": "AccessPoliciesStatus",
"defaultConsumerFluentSetterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>

This is a convenience that creates an instance of the {@link AccessPoliciesStatus.Builder} avoiding the need to create one manually via {@link AccessPoliciesStatus#builder()}. When the {@link Consumer} completes, {@link AccessPoliciesStatus.Builder#build()} is called immediately and its result is passed to {@link AccessPoliciesStatus(Builder)}.

@see #accessPolicies(AccessPoliciesStatus)

@deprecated false,
"documentation": "<p>IAM access policy as a JSON-formatted string.</p>",
"enumType": null,
"eventType": false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>@param accessPolicies IAM access policy as a JSON-formatted string.@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>@return IAM access policy as a JSON-formatted string.",
"getterModel" : {
"returnType" : "AccessPoliciesStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AccessPolicies",
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>@param accessPolicies IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
"variableDeclarationType" : "AccessPoliciesStatus",
"variableName" : "accessPolicies",
"variableType" : "AccessPoliciesStatus",
"documentation" : null,
"simpleType" : "AccessPoliciesStatus"}
"variableSetterType" : "AccessPoliciesStatus",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : "<p>IAM access policy as a JSON-formatted string.</p>",
  "simpleType" : "AccessPoliciesStatus",
  "variableSetterType" : "AccessPoliciesStatus"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getSnapshotOptions",
  "beanStyleSetterMethodName" : "setSnapshotOptions",
  "c2jName" : "SnapshotOptions",
  "c2jShape" : "SnapshotOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link SnapshotOptionsStatus.Builder} avoiding the need to create one manually via {@link SnapshotOptionsStatus#builder()}. When the {@link Consumer} completes, {@link SnapshotOptionsStatus.Builder#build()} is called immediately and its result is passed to {@link SnapshotOptionsStatus}.

When the {@link Consumer} completes, {@link SnapshotOptionsStatus.Builder#build()} is called immediately and its result is passed to {@link SnapshotOptionsStatus}.

<param>
Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.
</param>
@return Returns a reference to this object so that method calls can be chained together.

<see>
{snapshotOptions(SnapshotOptionsStatus)}
</see>
"deprecated" : false,
"documentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "snapshotOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.
"getterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
@return Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.
"getterModel" : {
  "returnType" : "SnapshotOptionsStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "SnapshotOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "SnapshotOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "SnapshotOptions",
"setterDocumentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
@param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.",
"setterMethodName": "setSnapshotOptions",
"setterModel": {
  "variableDeclarationType": "SnapshotOptionsStatus",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptionsStatus",
  "documentation": null,
  "simpleType": "SnapshotOptionsStatus",
  "variableSetterType": "SnapshotOptionsStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "SnapshotOptionsStatus",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptionsStatus",
  "documentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>",
  "simpleType": "SnapshotOptionsStatus",
  "variableSetterType": "SnapshotOptionsStatus"
},
"xmlNameSpaceUri": null
},
{"beanStyleGetterMethodName": "getVpcOptions",
"beanStyleSetterMethodName": "setVpcOptions",
"c2jName": "VPCOptions"}
"c2jShape" : "VPCDerivedInfoStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. When the Consumer completes, the VPCDerivedInfoStatus.Builder#build() is called immediately and its result is passed to the VPCOptions(VPCDerivedInfoStatus). A convenience that creates an instance of the VPCDerivedInfoStatus.Builder avoiding the need to create one manually via VPCDerivedInfoStatus.Builder#build().

When the Consumer completes, the VPCOptions(VPCDerivedInfoStatus).build() is called immediately and its result is passed to the VPCOptions(VPCDerivedInfoStatus).

This is a convenience that creates an instance of the VPCDerivedInfoStatus.Builder avoiding the need to create one manually via VPCDerivedInfoStatus.Builder#build().

When the Consumer completes, the VPCOptions(VPCDerivedInfoStatus).build() is called immediately and its result is passed to the VPCOptions(VPCDerivedInfoStatus).

@see #vpcOptions(VPCDerivedInfoStatus),
"deprecated" : false,
"documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.

When the Consumer completes, the VPCOptions(VPCDerivedInfoStatus).build() is called immediately and its result is passed to the VPCOptions(VPCDerivedInfoStatus).

This is a convenience that creates an instance of the VPCDerivedInfoStatus.Builder avoiding the need to create one manually via VPCDerivedInfoStatus.Builder#build().

When the Consumer completes, the VPCOptions(VPCDerivedInfoStatus).build() is called immediately and its result is passed to the VPCOptions(VPCDerivedInfoStatus).

@see #vpcOptions(VPCDerivedInfoStatus),
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. When the Consumer completes, the VPCOptions(VPCDerivedInfoStatus).build() is called immediately and its result is passed to the VPCOptions(VPCDerivedInfoStatus).

This is a convenience that creates an instance of the VPCDerivedInfoStatus.Builder avoiding the need to create one manually via VPCDerivedInfoStatus.Builder#build().

When the Consumer completes, the VPCOptions(VPCDerivedInfoStatus).build() is called immediately and its result is passed to the VPCOptions(VPCDerivedInfoStatus).

@see #vpcOptions(VPCDerivedInfoStatus),
"getterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. When the Consumer completes, the VPCOptions(VPCDerivedInfoStatus).build() is called immediately and its result is passed to the VPCOptions(VPCDerivedInfoStatus).

This is a convenience that creates an instance of the VPCDerivedInfoStatus.Builder avoiding the need to create one manually via VPCDerivedInfoStatus.Builder#build().

When the Consumer completes, the VPCOptions(VPCDerivedInfoStatus).build() is called immediately and its result is passed to the VPCOptions(VPCDerivedInfoStatus).

@see #vpcOptions(VPCDerivedInfoStatus),
"getterModel" : {
    "returnType" : "VPCDerivedInfoStatus",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"setterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.<p>
@param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.
"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.<p>"simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getCognitoOptions",
"beanStyleSetterMethodName" : "setCognitoOptions",
"c2jName" : "CognitoOptions",
"c2jShape" : "CognitoOptionsStatus"
The `CognitoOptions` for the specified domain. For more information, see Amazon Cognito Authentication for Kibana. This is a convenience that creates an instance of the `CognitoOptionsStatus.Builder` avoiding the need to create one manually via `CognitoOptionsStatus.Builder().` When the consumer completes, `CognitoOptionsStatus.Builder.build()` is called immediately and its result is passed to `CognitoOptionsStatus.Builder().` @return Returns a reference to this object so that method calls can be chained together.

```java
@param cognitoOptions a consumer that will call methods on `CognitoOptionsStatus`
@return Returns a reference to this object so that method calls can be chained together.
@see #cognitoOptions(CognitoOptionsStatus)
```

```java
public CognitoOptionsStatus withCognitoOptions(CognitoOptions cognitoOptions) {
    return putCognitoOptions(cognitoOptions);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptions(CognitoOptions cognitoOptions) {
    return putCognitoOptions(cognitoOptions);
}
```

```java
public CognitoOptionsStatus withCognitoOptions(CognitoOptionsStatus cognitionOptionsStatus) {
    return putCognitoOptions(cognitionOptionsStatus);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptions(CognitoOptionsStatus cognitionOptionsStatus) {
    return putCognitoOptions(cognitionOptionsStatus);
}
```

```java
public CognitoOptionsStatus withCognitoOptionsSupplier(CognitoOptionsSupplier cognitoOptionsSupplier) {
    return putCognitoOptions(cognitoOptionsSupplier);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptionsSupplier(CognitoOptionsSupplier cognitoOptionsSupplier) {
    return putCognitoOptions(cognitoOptionsSupplier);
}
```

```java
public CognitoOptionsStatus withCognitoOptionsSupplier(CognitoOptionsStatusSupplier cognitionOptionsStatusSupplier) {
    return putCognitoOptions(cognitionOptionsStatusSupplier);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptionsSupplier(CognitoOptionsStatusSupplier cognitionOptionsStatusSupplier) {
    return putCognitoOptions(cognitionOptionsStatusSupplier);
}
```

```java
public CognitoOptionsStatus withCognitoOptionsRunnable(CognitoOptionsSupplier cognitoOptionsSupplier) {
    return putCognitoOptions(cognitoOptionsSupplier);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptionsRunnable(CognitoOptionsSupplier cognitoOptionsSupplier) {
    return putCognitoOptions(cognitoOptionsSupplier);
}
```

```java
public CognitoOptionsStatus withCognitoOptionsRunnable(CognitoOptionsStatusSupplier cognitionOptionsStatusSupplier) {
    return putCognitoOptions(cognitionOptionsStatusSupplier);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptionsRunnable(CognitoOptionsStatusSupplier cognitionOptionsStatusSupplier) {
    return putCognitoOptions(cognitionOptionsStatusSupplier);
}
```

```java
public CognitoOptionsStatus withCognitoOptionsWrapRunnable(CognitoOptionsSupplier cognitoOptionsSupplier) {
    return putCognitoOptions(cognitoOptionsSupplier);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptionsWrapRunnable(CognitoOptionsSupplier cognitoOptionsSupplier) {
    return putCognitoOptions(cognitoOptionsSupplier);
}
```

```java
public CognitoOptionsStatus withCognitoOptionsWrapRunnable(CognitoOptionsStatusSupplier cognitionOptionsStatusSupplier) {
    return putCognitoOptions(cognitionOptionsStatusSupplier);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptionsWrapRunnable(CognitoOptionsStatusSupplier cognitionOptionsStatusSupplier) {
    return putCognitoOptions(cognitionOptionsStatusSupplier);
}
```

```java
public CognitoOptionsStatus withCognitoOptionsDefaultConsumer(CognitoOptionsSupplier cognitoOptionsSupplier) {
    return putCognitoOptions(cognitoOptionsSupplier);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptionsDefaultConsumer(CognitoOptionsSupplier cognitoOptionsSupplier) {
    return putCognitoOptions(cognitoOptionsSupplier);
}
```

```java
public CognitoOptionsStatus withCognitoOptionsDefaultConsumer(CognitoOptionsStatusSupplier cognitionOptionsStatusSupplier) {
    return putCognitoOptions(cognitionOptionsStatusSupplier);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptionsDefaultConsumer(CognitoOptionsStatusSupplier cognitionOptionsStatusSupplier) {
    return putCognitoOptions(cognitionOptionsStatusSupplier);
}
```

```java
public CognitoOptionsStatus withCognitoOptionsDefaultConsumerRunnable(CognitoOptionsSupplier cognitoOptionsSupplier) {
    return putCognitoOptions(cognitoOptionsSupplier);
}
```

```java
public CognitoOptionsStatusBuilder withCognitoOptionsDefaultConsumerRunnable(CognitoOptionsSupplier cognitoOptionsSupplier) {
    return putCognitoOptions(cognitoOptionsSupplier);
}
```

```java
public CognitoOptionsStatus withCognitoOptionsDefaultConsumerRunnable(CognitoOptionsStatusSupplier cognitionOptionsStatusSupplier) {
    return putCognitoOptions(cognitionOptionsStatusSupplier);
}
```
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CognitoOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"setterDocumentation" : "&lt;p&gt;The &lt;code&gt;CognitoOptions&lt;/code&gt; for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank"&gt;Amazon Cognito Authentication for Kibana&lt;/a&gt;.&lt;/p&gt;&lt;p&gt;The &lt;code&gt;CognitoOptions&lt;/code&gt; for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank"&gt;Amazon Cognito Authentication for Kibana&lt;/a&gt;.&lt;/p&gt;&lt;p&gt;Specifies the &lt;code&gt;EncryptionAtRestOptions&lt;/code&gt; for the specified domain. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank"&gt;Amazon Cognito Authentication for Kibana&lt;/a&gt;.&lt;/p&gt;

"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptionsStatus",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptionsStatus",
  "documentation" : null,
  "simpleType" : "CognitoOptionsStatus",
  "variableSetterType" : "CognitoOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptionsStatus",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptionsStatus",
  "documentation" : null,
  "simpleType" : "CognitoOptionsStatus",
  "variableSetterType" : "CognitoOptionsStatus"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
"beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
"c2jName" : "EncryptionAtRestOptions",
"c2jShape" : "EncryptionAtRestOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : 

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This is a convenience that creates an instance of the [@link EncryptionAtRestOptionsStatus.Builder](#encryptionAtRestOptionsStatus) avoiding the need to create one manually via [@link EncryptionAtRestOptionsStatus#builder](#encryptionAtRestOptionsStatusbuilder). When the [@link Consumer](#encryptionAtRestOptionsStatusBuilderBuild) completes, [@link EncryptionAtRestOptionsStatus.Builder#build](#encryptionAtRestOptionsStatusBuilderBuild) is called immediately and its result is passed to [@link #encryptionAtRestOptions(EncryptionAtRestOptionsStatus)](#encryptionAtRestOptionsEncryptionAtRestOptionsStatus) a consumer that will call methods on [@link EncryptionAtRestOptionsStatus.Builder](#encryptionAtRestOptionsStatusBuilder) @return Returns a reference to this object so that method calls can be chained together.

@see #encryptionAtRestOptions(EncryptionAtRestOptionsStatus)
Specifies the `<code>EncryptionAtRestOptions</code>` for the Elasticsearch domain.

@p specifies the `<code>EncryptionAtRestOptions</code>` for the Elasticsearch domain.

@p Specifies the `<code>EncryptionAtRestOptions</code>` for the Elasticsearch domain.

This is a convenience that creates an instance of the class avoiding the need to create one manually via the `NodeToNodeEncryptionOptionsStatus.Builder()` method. When the call is made and its result is passed to the `NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)` method, a consumer that will call methods on the object is returned. A reference to this object so that method calls can be chained together.

@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the
Elasticsearch domain.</p>@param nodeToNodeEncryptionOptions Specifies the
<code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the
Elasticsearch domain.</p>
@return Specifies the <code>NodeToNodeEncryptionOptions</code> for the
Elasticsearch domain.",
"getterModel" : {
"returnType" : "NodeToNodeEncryptionOptionsStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NodeToNodeEncryptionOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NodeToNodeEncryptionOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"setterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the
Elasticsearch domain.</p>@param nodeToNodeEncryptionOptions Specifies the
<code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.",
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : {
"variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
"variableName" : "nodeToNodeEncryptionOptions",
"variableType" : "NodeToNodeEncryptionOptionsStatus",
"documentation" : null,
"simpleType" : "NodeToNodeEncryptionOptionsStatus",
"variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
"variableName" : "nodeToNodeEncryptionOptions",
"variableType" : "NodeToNodeEncryptionOptionsStatus",
"documentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>",
"simpleType" : "NodeToNodeEncryptionOptionsStatus",
"variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getAdvancedOptions",
"beanStyleSetterMethodName" : "setAdvancedOptions",
"c2jName" : "AdvancedOptions",
"c2jShape" : "AdvancedOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.</p>\nThis is a convenience that creates an instance of the { @link AdvancedOptionsStatus.Builder} avoiding the need to create one manually via { @link AdvancedOptionsStatus#builder()}. When the { @link Consumer} completes, { @link AdvancedOptionsStatus.Builder#build()} is called immediately and its result is passed to { @link AdvancedOptions<AdvancedOptionsStatus>}.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #advancedOptions(AdvancedOptionsStatus)",
"deprecated" : false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.</p>\n@param advancedOptions Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "advancedOptions",
"getterModel" : {
"returnType" : "AdvancedOptionsStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AdvancedOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AdvancedOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AdvancedOptions",
"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
"variableDeclarationType" : "AdvancedOptionsStatus",
"variableName" : "advancedOptions"
"variableType" : "AdvancedOptionsStatus",
"documentation" : null,
"simpleType" : "AdvancedOptionsStatus",
"variableSetterType" : "AdvancedOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AdvancedOptionsStatus",
  "variableName" : "advancedOptions",
  "variableType" : "AdvancedOptionsStatus",
  "simpleType" : "AdvancedOptionsStatus",
  "variableSetterType" : "AdvancedOptionsStatus"
},
"xmlNameSpaceUri" : null
],
{
  "beanStyleGetterMethodName" : "getLogPublishingOptions",
  "beanStyleSetterMethodName" : "setLogPublishingOptions",
  "c2jName" : "LogPublishingOptions",
  "c2jShape" : "LogPublishingOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Log publishing options for the given domain.&lt;/p&gt;\nThis is a convenience that creates an instance of the {@link LogPublishingOptionsStatus.Builder} avoiding the need to create one manually via {@link LogPublishingOptionsStatus.Builder#builder}().\n\nWhen the {@link Consumer} completes, {@link LogPublishingOptionsStatus.Builder#build}() is called immediately and its result is passed to {@link LogPublishingOptions}.
@param logPublishingOptions a consumer that will call methods on {@link LogPublishingOptionsStatus.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #logPublishingOptions(LogPublishingOptionsStatus)",
  "deprecated" : false,
  "documentation" : "<p>Log publishing options for the given domain.&lt;/p&gt;",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "logPublishingOptions",
  "fluentSetterMethodName" : "logPublishingOptions",
  "fluentSetterDocumentation" : "<p>Log publishing options for the given domain.&lt;/p&gt;\n@param logPublishingOptions Log publishing options for the given domain.\n@return Returns a reference to this object so that method calls can be chained together."
},
"getterDocumentation" : "<p>Log publishing options for the given domain.&lt;/p&gt;\n@return Log publishing options for the given domain.";
"getterModel" : {
  "returnType" : "LogPublishingOptionsStatus",
  "documentation" : null
}
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "LogPublishingOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "LogPublishingOptions",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "LogPublishingOptions",
"setterDocumentation": "<p>Log publishing options for the given domain.</p>
@param
logPublishingOptions Log publishing options for the given domain.
"",
"setterMethodName": "setLogPublishingOptions",
"setterModel": {
  "variableDeclarationType": "LogPublishingOptionsStatus",
  "variableName": "logPublishingOptions",
  "variableType": "LogPublishingOptionsStatus",
  "documentation": null,
  "simpleType": "LogPublishingOptionsStatus",
  "variableSetterType": "LogPublishingOptionsStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "LogPublishingOptionsStatus",
  "variableName": "logPublishingOptions",
  "variableType": "LogPublishingOptionsStatus",
  "documentation": "<p>Log publishing options for the given domain.</p>",
  "simpleType": "LogPublishingOptionsStatus",
  "variableSetterType": "LogPublishingOptionsStatus"
},
"xmlNameSpaceUri": null
"membersAsMap" : {
  "AccessPolicies" : {
    "beanStyleGetterMethodName" : "getAccessPolicies",
    "beanStyleSetterMethodName" : "setAccessPolicies",
    "c2jName" : "AccessPolicies",
    "c2jShape" : "AccessPoliciesStatus",
    "defaultConsumerFluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
This is a convenience that creates an instance of the {@link AccessPoliciesStatus.Builder} avoiding the need to create one manually via {@link AccessPoliciesStatus.Builder#builder()}. When the {@link Consumer} completes, {@link AccessPoliciesStatus.Builder#build()} is called immediately and its result is passed to {@link #accessPolicies(AccessPoliciesStatus)}.

When the {@link Consumer} completes, {@link AccessPoliciesStatus.Builder#build()} is called immediately and its result is passed to {@link AccessPoliciesStatus.Builder#build()}.

@param accessPolicies a consumer that will call methods on {@link AccessPoliciesStatus.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #accessPolicies(AccessPoliciesStatus)",
    "deprecated" : false,
    "documentation" : "<p>IAM access policy as a JSON-formatted string.</p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "accessPolicies",
    "fluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "accessPolicies",
    "getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
    "getterModel" : {
      "returnType" : "AccessPoliciesStatus",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : null,
      "marshallLocation" : "PAYLOAD",
      "marshallLocationName" : "AccessPolicies",
      "queryString" : false,
      "statusCode" : false,
      "unmarshallLocationName" : "AccessPolicies",
      "uri" : false
    }
  }
}

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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AccessPolicies",
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.\</p>\n@param accessPolicies IAM access policy as a JSON-formatted string.\",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : null,
  "simpleType" : "AccessPoliciesStatus",
  "variableSetterType" : "AccessPoliciesStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : "<p>IAM access policy as a JSON-formatted string.\</p>\n"simpleType" : "AccessPoliciesStatus",
  "variableSetterType" : "AccessPoliciesStatus"
},
"xmlNameSpaceUri" : null
},
"AdvancedOptions" : {
  "beanStyleGetterMethodName" : "getAdvancedOptions",
  "beanStyleSetterMethodName" : "setAdvancedOptions",
  "c2jName" : "AdvancedOptions",
  "c2jShape" : "AdvancedOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>AdvancedOptions</code> for the domain. See \a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options\" target="_blank\">Configuring Advanced Options</a> for more information.</p>\n
This is a convenience that creates an instance of the { @link AdvancedOptionsStatus.Builder} avoiding the need to create one manually via { @link AdvancedOptionsStatus#builder}. When the { @link Consumer} completes, { @link AdvancedOptionsStatus.Builder#build()} is called immediately and its result is passed to { @link #advancedOptions(AdvancedOptionsStatus)}.\n@param advancedOptions a consumer that will call methods on { @link AdvancedOptionsStatus.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #advancedOptions(AdvancedOptionsStatus)",
  "deprecated" : false,
"enumType": null,  
"eventHeader": false,  
"eventPayload": false,  
"fluentEnumGetterMethodName": null,  
"fluentEnumSetterMethodName": null,  
"fluentGetterMethodName": "advancedOptions",  
"fluentSetterDocumentation": "<p>Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options\" target="_blank\">Configuring Advanced Options</a> for more information.\</p>@param advancedOptions Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options\" target="_blank\">Configuring Advanced Options</a> for more information.\</p>@return Returns a reference to this object so that method calls can be chained together.\",  
"fluentSetterMethodName": "advancedOptions",  
"getterModel": {  
"returnType": "AdvancedOptionsStatus",  
"documentation": null  },  
"http": {  
"additionalMarshallingPath": null,  
"additionalUnmarshallingPath": null,  
"flattened": false,  
"greedy": false,  
"header": false,  
"isPayload": false,  
"isStreaming": false,  
"location": null,  
"marshallLocation": "PAYLOAD",  
"marshallLocationName": "AdvancedOptions",  
"queryString": false,  
"statusCode": false,  
"unmarshallLocationName": "AdvancedOptions",  
"uri": false  },  
"idempotencyToken": false,  
"isBinary": false,  
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "AdvancedOptions",
@param advancedOptions Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.",(n)

,,
"setterMethodName": "setAdvancedOptions",
"setterModel": {

"variableDeclarationType": "AdvancedOptionsStatus",
"variableName": "advancedOptions",
"variableType": "AdvancedOptionsStatus",
"documentation": null,
"simpleType": "AdvancedOptionsStatus",
"variableSetterType": "AdvancedOptionsStatus",
}

,,
"simple": false,
"timestampFormat": null,
"variable": {

"variableDeclarationType": "AdvancedOptionsStatus",
"variableName": "advancedOptions",
"variableType": "AdvancedOptionsStatus",
"documentation": null,
"simpleType": "AdvancedOptionsStatus",
"variableSetterType": "AdvancedOptionsStatus",

,,
"xmlNameSpaceUri": null

},

"CognitoOptions": {

"beanStyleGetterMethodName": "getCognitoOptions",
"beanStyleSetterMethodName": "setCognitoOptions",
"c2jName": "CognitoOptions",
"c2jShape": "CognitoOptionsStatus",
"defaultConsumerFluentSetterDocumentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>

This is a convenience that creates an instance of the @link CognitoOptionsStatus.Builder avoiding the need to create one manually via @link CognitoOptionsStatus#builder(). When the @link Consumer completes, @link CognitoOptionsStatus.Builder#build() is called immediately and its result is passed
to {[@link cognitoOptions(CognitoOptionsStatus)]}.\n@param cognitoOptions a consumer that will call methods on
{[@link CognitoOptionsStatus.Builder]}\n@return Returns a reference to this object so that method calls can be
chained together.\n@see #cognitoOptions(CognitoOptionsStatus)

"deprecated" : false,
"documentation" : "\nThe <code>CognitoOptions</code> for the specified domain. For more information,
see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n\n\n"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cognitoOptions",
"fluentSetterDocumentation" : "\nThe <code>CognitoOptions</code> for the specified domain. For more information,
see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n\n\n"getterDocumentation" : "\nThe <code>CognitoOptions</code> for the specified domain. For more information,
see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n\n\n"getterModel" : {
  "returnType" : "CognitoOptionsStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "CognitoOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "CognitoOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "CognitoOptions",
"setterDocumentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>
@param cognitoOptions The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"setterMethodName": "setCognitoOptions",
"setterModel": {
  "variableDeclarationType": "CognitoOptionsStatus",
  "variableName": "cognitoOptions",
  "variableType": "CognitoOptionsStatus",
  "documentation": null,
  "simpleType": "CognitoOptionsStatus",
  "variableSetterType": "CognitoOptionsStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "CognitoOptionsStatus",
  "variableName": "cognitoOptions",
  "variableType": "CognitoOptionsStatus",
  "documentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>",
  "simpleType": "CognitoOptionsStatus",
  "variableSetterType": "CognitoOptionsStatus"
},
"xmlNameSpaceUri": null
},
"EBSOptions": {
  "beanStyleGetterMethodName": "getEbsOptions",
  "beanStyleSetterMethodName": "setEbsOptions",
  "c2jName": "EBSOptions",
  "c2jShape": "EBSOptionsStatus",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>\nThis is a convenience that creates an instance of the <code>EBSOptionsStatus.Builder</code> avoiding the need to create one manually via <code>EBSOptionsStatus#builder()</code>.\nWhen the <code>EBSOptionsStatus.Builder#build()</code> is called immediately and its result is passed to <code>EBSOptions#ebsOptions(EBSOptionsStatus)</code>.\n@param ebsOptions a consumer that will call methods on <code>EBSOptionsStatus.Builder</code>\n@return Returns a reference to this object so that method calls can be chained
@see #ebsOptions(EBSOptionsStatus)

"deprecated" : false,
"documentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "ebsOptions",
"getterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@return Specifies the <code>EBSOptions</code> for the Elasticsearch domain.",
"getterModel" : {
"returnType" : "EBSOptionsStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "EBSOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EBSOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"setterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.
@return Specifies the <code>EBSOptions</code> for the Elasticsearch domain.",
"setterMethodName" : "setEbsOptions",
"setterModel" : {"returnType" : "EBSOptionsStatus", "documentation" : null}
"variableDeclarationType" : "EBSOptionsStatus",
"variableName" : "ebsOptions",
"variableType" : "EBSOptionsStatus",
"documentation" : null,
"simpleType" : "EBSOptionsStatus",
"variableSetterType" : "EBSOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "EBSOptionsStatus",
"variableName" : "ebsOptions",
"variableType" : "EBSOptionsStatus",
"documentation" : "<p>SPECIFIES THE <code>EBSOptions</code> FOR THE ELASTICSEARCH DOMAIN.</p>"

This is a convenience that creates an instance of the <code>ElasticsearchClusterConfigStatus</code> avoiding the need to create one manually via <code>ElasticsearchClusterConfigStatus#builder()</code>. When the <code>Consumer</code> completes, <code>ElasticsearchClusterConfigStatus.Builder#build()</code> is called immediately and its result is passed to <code>ElasticsearchClusterConfig</code> a consumer that will call methods on <code>ElasticsearchClusterConfigStatus.Builder</code> a reference to this object so that method calls can be chained together.

@see #elasticsearchClusterConfig(ElasticsearchClusterConfigStatus),
"deprecated" : false,
"documentation" : "<p>SPECIFIES THE <code>ElasticsearchClusterConfig</code> FOR THE ELASTICSEARCH DOMAIN.</p>";
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterDocumentation" : "<p>SPECIFIES THE <code>ElasticsearchClusterConfig</code> FOR THE ELASTICSEARCH DOMAIN.</p>";
"param elasticsearchClusterConfig Specifies the <code>ElasticsearchClusterConfig</code> FOR THE ELASTICSEARCH DOMAIN.
"return Returns a reference to this object so that method calls can be chained together.
"getterDocumentation" : "<p>SPECIFIES THE <code>ElasticsearchClusterConfig</code> FOR THE ELASTICSEARCH DOMAINE.
domain.

@return Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

}@return Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

}.

"getterModel" : {
    "returnType" : "ElasticsearchClusterConfigStatus",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ElasticsearchClusterConfig",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ElasticsearchClusterConfig",
    "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"name" : "ElasticsearchClusterConfig",

"setterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

@param elasticsearchClusterConfig Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

,"setterMethodName" : "setElasticsearchClusterConfig",

"setterModel" : {
    "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
    "variableName" : "elasticsearchClusterConfig",
    "variableType" : "ElasticsearchClusterConfigStatus",
    "documentation" : null,
    "simpleType" : "ElasticsearchClusterConfigStatus",
    "variableSetterType" : "ElasticsearchClusterConfigStatus"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {
    "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
    "variableName" : "elasticsearchClusterConfig",
    "variableType" : "ElasticsearchClusterConfigStatus",
    "getterModel" : {
        "returnType" : "ElasticsearchClusterConfigStatus",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "ElasticsearchClusterConfig",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "ElasticsearchClusterConfig",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
    "map" : false,
    "mapModel" : null,
    "marshallingType" : "SDK_POJO",
    "name" : "ElasticsearchClusterConfig",
    "setterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

@param elasticsearchClusterConfig Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

,"setterMethodName" : "setElasticsearchClusterConfig",
    "setterModel" : {
        "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
        "variableName" : "elasticsearchClusterConfig",
        "variableType" : "ElasticsearchClusterConfigStatus",
        "documentation" : null,
        "simpleType" : "ElasticsearchClusterConfigStatus",
        "variableSetterType" : "ElasticsearchClusterConfigStatus"
    },
    "simple" : false,
    "timestampFormat" : null,
    "variable" : {
        "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
        "variableName" : "elasticsearchClusterConfig",
        "variableType" : "ElasticsearchClusterConfigStatus",
        "getterModel" : {
            "returnType" : "ElasticsearchClusterConfigStatus",
            "documentation" : null
        },
        "http" : {
            "additionalMarshallingPath" : null,
            "additionalUnmarshallingPath" : null,
            "flattened" : false,
            "greedy" : false,
            "header" : false,
            "isPayload" : false,
            "isStreaming" : false,
            "location" : null,
            "marshallLocation" : "PAYLOAD",
            "marshallLocationName" : "ElasticsearchClusterConfig",
            "queryString" : false,
            "statusCode" : false,
            "unmarshallLocationName" : "ElasticsearchClusterConfig",
            "uri" : false
        },
        "idempotencyToken" : false,
        "isBinary" : false,
        "jsonValue" : false,
        "list" : false,
        "listModel" : null,
        "map" : false,
        "mapModel" : null,
        "marshallingType" : "SDK_POJO",
        "name" : "ElasticsearchClusterConfig",
        "setterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

@param elasticsearchClusterConfig Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

,"setterMethodName" : "setElasticsearchClusterConfig",
    "setterModel" : {
        "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
        "variableName" : "elasticsearchClusterConfig",
        "variableType" : "ElasticsearchClusterConfigStatus",
        "documentation" : null,
        "simpleType" : "ElasticsearchClusterConfigStatus",
        "variableSetterType" : "ElasticsearchClusterConfigStatus"
    },
    "simple" : false,
    "timestampFormat" : null,
    "variable" : {
        "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
        "variableName" : "elasticsearchClusterConfig",
        "variableType" : "ElasticsearchClusterConfigStatus",
        "getterModel" : {
            "returnType" : "ElasticsearchClusterConfigStatus",
            "documentation" : null
        },
        "http" : {
            "additionalMarshallingPath" : null,
            "additionalUnmarshallingPath" : null,
            "flattened" : false,
            "greedy" : false,
            "header" : false,
            "isPayload" : false,
            "isStreaming" : false,
            "location" : null,
            "marshallLocation" : "PAYLOAD",
            "marshallLocationName" : "ElasticsearchClusterConfig",
            "queryString" : false,
            "statusCode" : false,
            "unmarshallLocationName" : "ElasticsearchClusterConfig",
            "uri" : false
        },
        "idempotencyToken" : false,
        "isBinary" : false,
        "jsonValue" : false,
        "list" : false,
        "listModel" : null,
        "map" : false,
        "mapModel" : null,
        "marshallingType" : "SDK_POJO",
        "name" : "ElasticsearchClusterConfig",
        "setterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

@param elasticsearchClusterConfig Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

,"setterMethodName" : "setElasticsearchClusterConfig",
    "setterModel" : {
        "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
        "variableName" : "elasticsearchClusterConfig",
        "variableType" : "ElasticsearchClusterConfigStatus",
        "documentation" : null,
        "simpleType" : "ElasticsearchClusterConfigStatus",
        "variableSetterType" : "ElasticsearchClusterConfigStatus"
    },
    "simple" : false,
    "timestampFormat" : null,
    "variable" : {
        "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
        "variableName" : "elasticsearchClusterConfig",
        "variableType" : "ElasticsearchClusterConfigStatus",
        "getterModel" : {
            "returnType" : "ElasticsearchClusterConfigStatus",
            "documentation" : null
        },
        "http" : {
            "additionalMarshallingPath" : null,
            "additionalUnmarshallingPath" : null,
            "flattened" : false,
            "greedy" : false,
            "header" : false,
            "isPayload" : false,
"documentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>",
"simpleType" : "ElasticsearchClusterConfigStatus",
"variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchVersion" : {
"beanStyleGetterMethodName" : "getElasticsearchVersion",
"beanStyleSetterMethodName" : "setElasticsearchVersion",
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain. This is a convenience that creates an instance of the {@link ElasticsearchVersionStatus#builder()} avoiding the need to create one manually via {@link ElasticsearchVersionStatus.Builder#build()} immediately and its result is passed to {@link ElasticsearchVersionVersionStatus#builder()} for a consumer that will call methods on {@link ElasticsearchVersionStatus.Builder#return}.

@see #elasticsearchVersion(ElasticsearchVersionStatus)",
"deprecated" : false,
"documentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>

@see #elasticsearchVersion(ElasticsearchVersionStatus)",
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",}
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchVersion",
"setterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>
@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchVersionStatus",
  "variableName" : "elasticsearchVersion",
  "variableType" : "ElasticsearchVersionStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchVersionStatus",
  "variableSetterType" : "ElasticsearchVersionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchVersionStatus",
  "variableName" : "elasticsearchVersion",
  "variableType" : "ElasticsearchVersionStatus",
  "documentation" : "String of format X.Y to specify version for the Elasticsearch domain.
  "variableSetterType" : "ElasticsearchVersionStatus"
},
"xmlNameSpaceUri" : null
},
"EncryptionAtRestOptions" : {
  "beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
  "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
  "c2jName" : "EncryptionAtRestOptions",
  "c2jShape" : "EncryptionAtRestOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>
  This is a convenience that creates an instance of the <code>EncryptionAtRestOptionsStatus.Builder</code> avoiding the need to create one manually via <code>EncryptionAtRestOptionsStatus#builder()</code>. When the <code>Consumer</code> completes, <code>EncryptionAtRestOptionsStatus.Builder#build()</code> is called immediately and its result is passed to
@param encryptionAtRestOptions a consumer that will call methods on
 {@link EncryptionAtRestOptionsStatus.Builder}
@return Returns a reference to this object so that method calls can
be chained together.
@see #encryptionAtRestOptions(EncryptionAtRestOptionsStatus)

Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch
domain.

The Elasticsearch domain.

param encryptionAtRestOptions Specifies the
<code>EncryptionAtRestOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can
be chained together.

@see #encryptionAtRestOptions(EncryptionAtRestOptionsStatus)

Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.

returnType : EncryptionAtRestOptionsStatus,
documentation : null
}
http : {
    additionalMarshallingPath : null,
    additionalUnmarshallingPath : null,
    flattened : false,
    greedy : false,
    header : false,
    isPayload : false,
    isStreaming : false,
    location : null,
    marshallLocation : "PAYLOAD",
    marshallLocationName : "EncryptionAtRestOptions",
    queryString : false,
    statusCode : false,
    unmarshallLocationName : "EncryptionAtRestOptions",
    uri : false
},
idempotencyToken : false,
isBinary : false,
jsonValue : false,
list : false,
listModel : null,
map : false,
mapModel : null,
marshallingType : "SDK_POJO",
name : "EncryptionAtRestOptions", 
"setterDocumentation": "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>
@<param>encryptionAtRestOptions</param> Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain."

"setterMethodName": "setEncryptionAtRestOptions",
"setterModel": {
    "variableDeclarationType": "EncryptionAtRestOptionsStatus",
    "variableName": "encryptionAtRestOptions",
    "variableType": "EncryptionAtRestOptionsStatus",
    "documentation": null,
    "simpleType": "EncryptionAtRestOptionsStatus",
    "variableSetterType": "EncryptionAtRestOptionsStatus"
}
,"simple": false,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "EncryptionAtRestOptionsStatus",
    "variableName": "encryptionAtRestOptions",
    "variableType": "EncryptionAtRestOptionsStatus",
    "documentation": "Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.",
    "simple": "EncryptionAtRestOptionsStatus",
    "variableSetterType": "EncryptionAtRestOptionsStatus"
},
"xmlnsNameSpaceUri": null
"LogPublishingOptions": {
    "beanStyleGetterMethodName": "getLogPublishingOptions",
    "beanStyleSetterMethodName": "setLogPublishingOptions",
    "c2jName": "LogPublishingOptions",
    "c2jShape": "LogPublishingOptionsStatus",
    "defaultConsumerFluentSetterDocumentation": "<p>Log publishing options for the given domain. This is a convenience that creates an instance of the <code>LogPublishingOptionsStatus.Builder</code> avoiding the need to create one manually via <code>LogPublishingOptionsStatus#builder()</code>. When the <code>Consumer</code> completes, <code>LogPublishingOptionsStatus.Builder#build()</code> is called immediately and its result is passed to <code>logPublishingOptions(LogPublishingOptionsStatus)</code>. 
@<param>logPublishingOptions</param> a consumer that will call methods on <code>LogPublishingOptionsStatus.Builder</code>
@return Returns a reference to this object so that method calls can be chained together.
@see #logPublishingOptions(LogPublishingOptionsStatus)"
,"deprecated": false,
"documentation": "<p>Log publishing options for the given domain.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "logPublishingOptions",
"fluentSetterDocumentation": "<p>Log publishing options for the given domain.</p>
@<param>logPublishingOptions</param> Log publishing options for the given domain.
@return Returns a reference to this object so that method calls can be chained together."}
"fluentSetterMethodName" : "logPublishingOptions",
"getterDocumentation" : "<p>Log publishing options for the given domain.</p>
@return Log publishing options for the given domain.",
"getterModel" : {
  "returnType" : "LogPublishingOptionsStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LogPublishingOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LogPublishingOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "LogPublishingOptions",
"setterDocumentation" : "<p>Log publishing options for the given domain.</p>
@param logPublishingOptions Log publishing options for the given domain.",
"setterMethodName" : "setLogPublishingOptions",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOptionsStatus",
  "variableName" : "logPublishingOptions",
  "variableType" : "LogPublishingOptionsStatus",
  "documentation" : null,
  "simpleType" : "LogPublishingOptionsStatus",
  "variableSetterType" : "LogPublishingOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOptionsStatus",
  "variableName" : "logPublishingOptions"
"variableType" : "LogPublishingOptionsStatus",
"documentation" : "Log publishing options for the given domain."
"simpleType" : "LogPublishingOptionsStatus",
"variableSetterType" : "LogPublishingOptionsStatus"
},
"xmlNamespaceUri" : null
},
"NodeToNodeEncryptionOptions" : {
              "beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
              "beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
              "c2jName" : "NodeToNodeEncryptionOptions",
              "c2jShape" : "NodeToNodeEncryptionOptionsStatus",
              "defaultConsumerFluentSetterDocumentation" : "Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
This is a convenience that creates an instance of the {NodeToNodeEncryptionOptionsStatus.Builder} avoiding the need to create one manually via {NodeToNodeEncryptionOptionsStatus#builder()}. When the {Consumer} completes, {NodeToNodeEncryptionOptionsStatus.Builder#build()} is called immediately and its result is passed to {NodeToNodeEncryptionOptionsStatus}. Return a reference to this object so that method calls can be chained together.
@param nodeToNodeEncryptionOptions a consumer that will call methods on {NodeToNodeEncryptionOptionsStatus.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)",
              "deprecated" : false,
              "documentation" : "Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
"getterDocumentation" : "Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.
"getterModel" : {
              "returnType" : "NodeToNodeEncryptionOptionsStatus",
              "documentation" : null
            },
            "http" : {
              "additionalMarshallingPath" : null,
              "additionalUnmarshallingPath" : null,
              "flattened" : false,
              "greedy" : false,
              "header" : false,
              "documentation" : "NodeToNodeEncryptionOptions for the Elasticseach domain."
            }
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NodeToNodeEncryptionOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NodeToNodeEncryptionOptions",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"setterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>
@param nodeToNodeEncryptionOptions Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.",
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : {

"variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
"variableName" : "nodeToNodeEncryptionOptions",
"variableType" : "NodeToNodeEncryptionOptionsStatus",
"documentation" : null,
"simpleType" : "NodeToNodeEncryptionOptionsStatus",
"variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
"variableName" : "nodeToNodeEncryptionOptions",
"variableType" : "NodeToNodeEncryptionOptionsStatus",
"documentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>",
"simpleType" : "NodeToNodeEncryptionOptionsStatus",
"variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"xmlNameSpaceUri" : null
},
"SnapshotOptions" : {
"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions"
"c2jShape" : "SnapshotOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link SnapshotOptionsStatus.Builder} avoiding the need to create one manually via {@link SnapshotOptionsStatus#builder()}. When the {@link Consumer} completes, the method is called immediately and it's result is passed to the Builder. Returns a reference to this object so that methods can be chained together.

"deprecated" : false,
"documentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticseach domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "snapshotOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticseach domain.</p>
@overwrite snapshotOptions a consumer that will call methods on the Builder.

"getterDocumentation" : "<p>Specifies the <code>SnapshotOptions</code> for the Elasticseach domain.</p>
@return Returns a reference to this object so that method calls can be chained together.

"getterModel" : {
  "returnType" : "SnapshotOptionsStatus",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "SnapshotOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "SnapshotOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"setterDocumentation" : "Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain."
@param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain."
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptionsStatus",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptionsStatus",
  "documentation" : null,
  "simpleType" : "SnapshotOptionsStatus",
  "variableSetterType" : "SnapshotOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptionsStatus",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptionsStatus",
  "documentation" : "Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain."
},
"xmlnsNameSpaceUri" : null
},
"VPCOptions" : {
  "beanStyleGetterMethodName" : "getVpcOptions",
  "beanStyleSetterMethodName" : "setVpcOptions",
  "c2jName" : "VPCOptions",
  "c2jShape" : "VPCDerivedInfoStatus",
  "defaultConsumerFluentSetterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>."
\nThis is a convenience that creates an instance of the {@link VPCDerivedInfoStatus.Builder} avoiding the need to create one manually via {@link VPCDerivedInfoStatus.Builder}.\n\nWhen the {@link Consumer} completes, {@link VPCDerivedInfoStatus.Builder#build()} is called immediately and its result is passed to {@link #vpcOptions(VPCDerivedInfoStatus)}\n\n@param vpcOptions a consumer that will call methods on {@link VPCDerivedInfoStatus.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #vpcOptions(VPCDerivedInfoStatus)"
  "deprecated" : false,
  "documentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>."
  "enumType" : null,
  "eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\n\n@return Returns a reference to this object so that method calls can be chained together.
\ngetterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.
\n@return The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.\n\ngetterModel" : {\n    "returnType" : "VPCDerivedInfoStatus",
    "documentation" : null
},
"http" : {\n    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "VPCOptions",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "VPCOptions",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"setterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more

```
@param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.

"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.

"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>

"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
}.
```

"nonStreamingMembers" : [
  "beanStyleGetterMethodName" : "getElasticsearchVersion",
  "beanStyleSetterMethodName" : "setElasticsearchVersion",
  "c2jName" : "ElasticsearchVersion",
  "c2jShape" : "ElasticsearchVersionStatus",
  "defaultConsumerFluentSetterDocumentation" : "String of format X.Y to specify version for the Elasticsearch domain. This is a convenience that creates an instance of the \{\@link ElasticsearchVersionStatus.Builder\} avoiding the need to create one manually via \{\@link ElasticsearchVersionStatus#builder()\}. When the \{\@link Consumer\} completes, \{\@link ElasticsearchVersionStatus.Builder#build()\} is called immediately and its result is passed to \{\@link ElasticsearchVersion(ElasticsearchVersionStatus)\}.\n\n@see ElasticsearchVersion(ElasticsearchVersionStatus)",
  "deprecated" : false,
  "documentation" : "String of format X.Y to specify version for the Elasticsearch domain.\n  ℹ️ See #elasticsearchVersion(ElasticsearchVersionStatus)",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>
@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.
@return String of format X.Y to specify version for the Elasticsearch domain.",
"getterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>
@return String of format X.Y to specify version for the Elasticsearch domain.",
"setterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>
@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.",
"http" : {
    "returnType" : "ElasticsearchVersionStatus",
    "documentation" : null
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchVersion",
"setterDocumentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>
@param elasticsearchVersion String of format X.Y to specify version for the Elasticsearch domain.",
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
    "variableDeclarationType" : "ElasticsearchVersionStatus",
    "variableName" : "elasticsearchVersion",
    "variableType" : "ElasticsearchVersionStatus",
    "documentation" : null,
    "simpleType" : "ElasticsearchVersionStatus",
    "variableSetterType" : "ElasticsearchVersionStatus"
}
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchVersionStatus",
  "variableName" : "elasticsearchVersion",
  "variableType" : "ElasticsearchVersionStatus",
  "documentation" : "<p>String of format X.Y to specify version for the Elasticsearch domain.</p>",
  "simpleType" : "ElasticsearchVersionStatus",
  "variableSetterType" : "ElasticsearchVersionStatus"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
"beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
"c2jName" : "ElasticsearchClusterConfig",
"c2jShape" : "ElasticsearchClusterConfigStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

This is a convenience that creates an instance of the <code>ElasticsearchClusterConfigStatus.Builder</code> avoiding the need to create one manually via <code>@link ElasticsearchClusterConfigStatus#builder()</code>. When the <code>@link Consumer</code> completes, <code>@link ElasticsearchClusterConfigStatus.Builder#build()</code> is called immediately and its result is passed to <code>@link ElasticsearchClusterConfig(ElasticsearchClusterConfigStatus)</code>.<code>@param</code> elasticsearchClusterConfig a consumer that will call methods on <code>@link ElasticsearchClusterConfigStatus.Builder</code>.
<code>@return</code> Returns a reference to this object so that method calls can be chained together.
<code>@see</code> ElasticsearchClusterConfig(ElasticsearchClusterConfigStatus)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "elasticsearchClusterConfig",
  "fluentSetterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>
  <p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>
  <p>@return</p>
  <p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.

<code>@param</code> elasticsearchClusterConfig <code>@see</code> ElasticsearchClusterConfig(ElasticsearchClusterConfigStatus)
  <code>@return</code> Returns a reference to this object so that method calls can be chained together.
  "getterModel" : {
    "returnType" : "ElasticsearchClusterConfigStatus",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"setterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>
@param elasticsearchClusterConfig Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
    "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
    "variableName" : "elasticsearchClusterConfig",
    "variableType" : "ElasticsearchClusterConfigStatus",
    "documentation" : null,
    "simpleType" : "ElasticsearchClusterConfigStatus",
    "variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
    "variableName" : "elasticsearchClusterConfig",
    "variableType" : "ElasticsearchClusterConfigStatus",
    "documentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.</p>
"simpleType" : "ElasticsearchClusterConfigStatus",
"variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getEbsOptions",
"getterDocumentation" : "<p>Specifies the <code>ElasticsearchClusterConfig</code> for the Elasticsearch domain.
"getterGetMethod" : "getEbsOptions",
"getterMethodName" : "getEbsOptions",
"getterModel" : {
    "variableDeclarationType" : "ElasticsearchClusterConfigStatus",
    "variableName" : "elasticsearchClusterConfig",
    "variableType" : "ElasticsearchClusterConfigStatus",
    "documentation" : null,
    "simpleType" : "ElasticsearchClusterConfigStatus",
    "variableSetterType" : "ElasticsearchClusterConfigStatus"
},
"xmlNameSpaceUri" : null
}
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptionsStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain. This is a convenience that creates an instance of the <a>builder()</a> avoiding the need to create one manually via <a>builder()</a>. When the <a>CompletableFuture</a> completes, <a>build()</a> is called immediately and its result is passed to <a>get()</a>. Returns a reference to this object so that method calls can be chained together.<a>get()</a>.

@see #ebsOptions(EBSOptionsStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@param ebsOptions a consumer that will call methods on <a>EBSOptionsStatus.Builder</a>
@return Returns a reference to this object so that method calls can be chained together.
@see #ebsOptions(EBSOptionsStatus)",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",
"fluentSetterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.<a>get()</a>
@return Specifies the <code>EBSOptions</code> for the Elasticsearch domain.
@see #ebsOptions(EBSOptionsStatus)"
"getterDocumentation" : "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@return Specifies the <code>EBSOptions</code> for the Elasticsearch domain.
@see #ebsOptions(EBSOptionsStatus)",
"getterModel" : {
"returnType" : "EBSOptionsStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "EBSOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EBSOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "EBSOptions",
"setterDocumentation": "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
@param ebsOptions Specifies the <code>EBSOptions</code> for the Elasticsearch domain.",
"setterMethodName": "setEbsOptions",
"setterModel": {
  "variableDeclarationType": "EBSOptionsStatus",
  "variableName": "ebsOptions",
  "variableType": "EBSOptionsStatus",
  "documentation": null,
  "simpleType": "EBSOptionsStatus",
  "variableSetterType": "EBSOptionsStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EBSOptionsStatus",
  "variableName": "ebsOptions",
  "variableType": "EBSOptionsStatus",
  "documentation": "<p>Specifies the <code>EBSOptions</code> for the Elasticsearch domain.</p>
  "simpleType": "EBSOptionsStatus",
  "variableSetterType": "EBSOptionsStatus"
},
"xmlNameSpaceUri": null
},
{
  "beanStyleGetterMethodName": "getAccessPolicies",
  "beanStyleSetterMethodName": "setAccessPolicies",
  "c2jName": "AccessPolicies",
  "c2jShape": "AccessPoliciesStatus",
  "defaultConsumerFluentSetterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>
  @param accessPolicies a consumer that will call methods on <code>AccessPoliciesStatus</code>
  @return Returns a reference to this object so that method calls can be chained together.
  @see #accessPolicies(AccessPoliciesStatus)"
  "deprecated": false,
  "documentation": "<p>IAM access policy as a JSON-formatted string.</p>
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "accessPolicies",
  "fluentSetterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>
  @param accessPolicies"
accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.

"setterMethodName" : "accessPolicies",
"getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.",
"getterModel" : {
  "returnType" : "AccessPoliciesStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AccessPolicies",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AccessPolicies",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "AccessPolicies",
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "AccessPoliciesStatus",
  "variableName" : "accessPolicies",
  "variableType" : "AccessPoliciesStatus",
  "documentation" : null,
  "simpleType" : "AccessPoliciesStatus",
  "variableSetterType" : "AccessPoliciesStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {


"variableDeclarationType": "AccessPoliciesStatus",
"variableName": "accessPolicies",
"variableType": "AccessPoliciesStatus",
"documentation": "<p>IAM access policy as a JSON-formatted string.</p>",
"simpleType": "AccessPoliciesStatus",
"variableSetterType": "AccessPoliciesStatus"
},
"xmlNameSpaceUri": null
},
{}
"beanStyleGetterMethodName": "getSnapshotOptions",
"beanStyleSetterMethodName": "setSnapshotOptions",
"c2jName": "SnapshotOptions",
"c2jShape": "SnapshotOptionsStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link SnapshotOptionsStatus.Builder} avoiding the need to create one manually via {@link SnapshotOptionsStatus#builder()}.

When the {@link Consumer} completes, {@link SnapshotOptionsStatus.Builder#build()} is called immediately and its result is passed to {@link SnapshotOptions(SnapshotOptionsStatus)}.

@see #snapshotOptions(SnapshotOptionsStatus)

"deprecated": false,
"documentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "snapshotOptions",
"fluentSetterDocumentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
@param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.
@see #snapshotOptions(SnapshotOptionsStatus)

http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"deprecated": false,
"documentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "snapshotOptions",
"fluentSetterDocumentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
@param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.
@see #snapshotOptions(SnapshotOptionsStatus)

http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "SnapshotOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "SnapshotOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "SnapshotOptions",
"setterDocumentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
@param snapshotOptions Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.",

"setterMethodName": "setSnapshotOptions",

"setterModel": {
  "variableDeclarationType": "SnapshotOptionsStatus",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptionsStatus",
  "documentation": null,
  "simpleType": "SnapshotOptionsStatus",
  "variableSetterType": "SnapshotOptionsStatus"
},

"simple": false,
"timestampFormat": null,

"variable": {
  "variableDeclarationType": "SnapshotOptionsStatus",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptionsStatus",
  "documentation": "<p>Specifies the <code>SnapshotOptions</code> for the Elasticsearch domain.</p>
  "simpleType": "SnapshotOptionsStatus",
  "variableSetterType": "SnapshotOptionsStatus"
},

"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getVpcOptions",

"beanStyleSetterMethodName": "setVpcOptions",

"c2jName": "VPCOptions",

"c2jShape": "VPCDerivedInfoStatus",

"defaultConsumerFluentSetterDocumentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="\_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>

This is a convenience that creates an instance of the <code>VPCDerivedInfoStatus.Builder</code> avoiding the need to create one
When the [link VPCDerivedInfoStatus#build()] completes, [link
VPCDerivedInfoStatus.Builder#build()] is called immediately and its result is passed to [link
vpcOptions(VPCDerivedInfoStatus)].

@returns Returns a reference to this object so that method calls can be chained together.

@see VPCDerivedInfoStatus#build()

### Documentation

The [VPCOptions](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html) for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html).

@returns Returns a reference to this object so that method calls can be chained together.

@see VPCOptions#build()
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "VPCOptions",
"setterDocumentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>
@param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.
"setterMethodName": "setVpcOptions",
"setterModel": {
  "variableDeclarationType": "VPCDerivedInfoStatus",
  "variableName": "vpcOptions",
  "variableType": "VPCDerivedInfoStatus",
  "documentation": null,
  "simpleType": "VPCDerivedInfoStatus",
  "variableSetterType": "VPCDerivedInfoStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "VPCDerivedInfoStatus",
  "variableName": "vpcOptions",
  "variableType": "VPCDerivedInfoStatus",
  "documentation": "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>
"variableSetterType": "VPCDerivedInfoStatus"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getCognitoOptions",
"beanStyleSetterMethodName": "setCognitoOptions",
"c2jName": "CognitoOptions",
"c2jShape": "CognitoOptionsStatus",
"defaultConsumerFluentSetterDocumentation": "<p>The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>

This is a convenience that creates an instance of the {@link CognitoOptionsStatus.Builder} avoiding the need to create one manually via {@link CognitoOptionsStatus#builder()}. When the
Consumer} completes, {@link CognitoOptionsStatus.Builder#build()} is called immediately and its result is passed to { @link CognitoOptionsStatus.Builder}.\n@returns a reference to this object so that method calls can be chained together.\n@see #cognitoOptions(CognitoOptionsStatus),
"deprecated" : false,
"documentation" : "\nThe <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n" eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cognitoOptions",
"fluentSetterDocumentation" : "\nThe <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n" getDocumentation" : "\nThe <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n"http" : {\n"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CognitoOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CognitoOptions",
"uri" : false
},

\@param cognitoOptions The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",

"setterMethodName" : "setCognitoOptions",

"setterModel" : {
  "variableDeclarationType" : "CognitoOptionsStatus",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptionsStatus",
  "documentation" : null,
  "simpleType" : "CognitoOptionsStatus",
  "variableSetterType" : "CognitoOptionsStatus"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "CognitoOptionsStatus",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptionsStatus",
  "documentation" : "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
  "simpleType" : "CognitoOptionsStatus",
  "variableSetterType" : "CognitoOptionsStatus"
},

"xmlNameSpaceUri" : null
},

{"beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
 "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
 "c2jName" : "EncryptionAtRestOptions",
 "c2jShape" : "EncryptionAtRestOptionsStatus",
 "defaultConsumerFluentSetterDocumentation" : "Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain. This is a convenience that creates an instance of the <code>EncryptionAtRestOptionsStatus.Builder</code> avoiding the need to create one manually via <code>EncryptionAtRestOptionsStatus#builder()</code>. 

When the <code>EncryptionAtRestOptionsStatus.Builder#build()</code> is called immediately and its result is passed to the <code>EncryptionAtRestOptions</code> a consumer that
will call methods on {@link EncryptionAtRestOptionsStatus.Builder}@n@return Returns a reference to this object so that method calls can be chained together.@n@see #encryptionAtRestOptions(EncryptionAtRestOptionsStatus)
  "deprecated" : false,
  "documentation" : "\t<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "encryptionAtRestOptions",
  "fluentSetterDocumentation" : "\t<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>@n@return Returns a reference to this object so that method calls can be chained together."
  "fluentSetterMethodName" : "encryptionAtRestOptions",
  "getterDocumentation" : "\t<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>
  @param encryptionAtRestOptions Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.
  @return Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.
  "getterModel" : {
    "returnType" : "EncryptionAtRestOptionsStatus",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "EncryptionAtRestOptions",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "EncryptionAtRestOptions",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "SDK_POJO",
  "name" : "EncryptionAtRestOptions",
  "setterDocumentation" : "\t<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch domain.</p>@n@return encryptionAtRestOptions Specifies the <code>EncryptionAtRestOptions</code> for the
Elasticsearch domain.

"setterMethodName" : "setEncryptionAtRestOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptionsStatus",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptionsStatus",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptionsStatus",
  "variableSetterType" : "EncryptionAtRestOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptionsStatus",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptionsStatus",
  "documentation" : "<p>Specifies the <code>EncryptionAtRestOptions</code> for the Elasticsearch
domain.</p>

  "simpleType" : "EncryptionAtRestOptionsStatus",
  "variableSetterType" : "EncryptionAtRestOptionsStatus"
},
"xmlNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
  "beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
  "c2jName" : "NodeToNodeEncryptionOptions",
  "c2jShape" : "NodeToNodeEncryptionOptionsStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the
<code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>

This is a convenience that creates an instance of the [NodeToNodeEncryptionOptionsStatus.Builder] avoiding the need to create one
manually via {NodeToNodeEncryptionOptionsStatus#builder()}. When the {Consumer}
completes, {NodeToNodeEncryptionOptionsStatus.Builder#build()} is called immediately and its result is
passed to {NodeToNodeEncryptionOptionsStatus(NodeToNodeEncryptionOptionsStatus)}. When the
NodeToNodeEncryptionOptions a consumer that will call methods on {NodeToNodeEncryptionOptionsStatus.Builder}.

@return Returns a reference to this object so that method calls can be chained together.
@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptionsStatus)
  "deprecated" : false,
  "documentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch
domain.</p>

  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
  "fluentSetterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the
Elasticsearch domain.</p>

@param nodeToNodeEncryptionOptions Specifies the
<code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Returns a reference to this
object so that method calls can be chained together.

"fluentlySetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@return Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

"getterModel" : {
  "returnType" : "NodeToNodeEncryptionOptionsStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "NodeToNodeEncryptionOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "NodeToNodeEncryptionOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"setterDocumentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

@param nodeToNodeEncryptionOptions Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.

"setterMethodname" : "setNodeToNodeEncryptionOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptionsStatus",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptionsStatus",
  "variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptionsStatus",
  "documentation" : "<p>Specifies the <code>NodeToNodeEncryptionOptions</code> for the Elasticsearch domain.</p>",
  "simpleType" : "NodeToNodeEncryptionOptionsStatus",
  "variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getAdvancedOptions",
"beanStyleSetterMethodName" : "setAdvancedOptions",
"c2jName" : "AdvancedOptions",
"c2jShape" : "AdvancedOptionsStatus",
This is a convenience that creates an instance of the {AdvancedOptionsStatus.Builder} avoiding the need to create one manually via {AdvancedOptionsStatus#builder()}. When the {AdvancedOptionsStatus.Builder} completes, {AdvancedOptionsStatus.Builder#build()} is called immediately and its result is passed to {AdvancedOptionsStatus}.<p>
@deprecated false,
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "advancedOptions",
@return Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createupdatedomains configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.
@deprecated false,
Configuring Advanced Options for more information.

```
"getterModel": {
"returnType": "AdvancedOptionsStatus",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "AdvancedOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "AdvancedOptions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "AdvancedOptions",

@param advancedOptions Specifies the <code>AdvancedOptions</code> for the domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuring Advanced Options</a> for more information.

"setterMethodName": "setAdvancedOptions",
"setterModel": {
"variableDeclarationType": "AdvancedOptionsStatus",
"variableName": "advancedOptions",
"variableType": "AdvancedOptionsStatus",
"documentation": null,
"simpleType": "AdvancedOptionsStatus",
"variableSetterType": "AdvancedOptionsStatus"
}
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"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "AdvancedOptionsStatus",
  "variableName": "advancedOptions",
  "variableType": "AdvancedOptionsStatus",
  "simpleType": "AdvancedOptionsStatus",
  "variableSetterType": "AdvancedOptionsStatus"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getLogPublishingOptions",
"beanStyleSetterMethodName": "setLogPublishingOptions",
"c2jName": "LogPublishingOptions",
"c2jShape": "LogPublishingOptionsStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Log publishing options for the given domain.</p>\nThis is a convenience that creates an instance of the {@link LogPublishingOptionsStatus.Builder} avoiding the need to
create one manually via {@link LogPublishingOptionsStatus#builder()}\n\nWhen the {@link Consumer} completes, {@link LogPublishingOptionsStatus.Builder#build()} is called immediately and its result is passed to
{@link LogPublishingOptionsStatus.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #logPublishingOptions(LogPublishingOptionsStatus)",
"deprecated": false,
"documentation": "<p>Log publishing options for the given domain.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "logPublishingOptions",
"fluentSetterDocumentation": "<p>Log publishing options for the given domain.</p>\n\n@param logPublishingOptions Log publishing options for the given domain.\n\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName": "logPublishingOptions",
"getterDocumentation": "<p>Log publishing options for the given domain.</p>\n\n@return Log publishing options for the given domain.\n",
"getterModel": {
  "returnType": "LogPublishingOptionsStatus",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "LogPublishingOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LogPublishingOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "LogPublishingOptions",
"setterDocumentation" : "<p>Log publishing options for the given domain.</p>
@param logPublishingOptions Log publishing options for the given domain.
",
"setterMethodName" : "setLogPublishingOptions",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOptionsStatus",
  "variableName" : "logPublishingOptions",
  "variableType" : "LogPublishingOptionsStatus",
  "documentation" : null,
  "simpleType" : "LogPublishingOptionsStatus",
  "variableSetterType" : "LogPublishingOptionsStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOptionsStatus",
  "variableName" : "logPublishingOptions",
  "variableType" : "LogPublishingOptionsStatus",
  "documentation" : "<p>Log publishing options for the given domain.</p>",
  "simpleType" : "LogPublishingOptionsStatus",
  "variableSetterType" : "LogPublishingOptionsStatus"
},
"xmlNameSpaceUri" : null
}]
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ElasticsearchDomainConfig"
"simpleMethod": false,
"unmarshaller": {
"flattened": false,
"resultWrapper": null
},
"variable": {
"variableDeclarationType": "ElasticsearchDomainConfig",
"variableName": "elasticsearchDomainConfig",
"variableType": "ElasticsearchDomainConfig",
"documentation": null,
"simpleType": "ElasticsearchDomainConfig",
"variableSetterType": "ElasticsearchDomainConfig"
},
"wrapper": false
},
"ElasticsearchDomainStatus": {
"c2jName": "ElasticsearchDomainStatus",
"customization": {
"artificialResultWrapper": null,
"skipGeneratingMarshaller": false,
"skipGeneratingModelClass": false,
"skipGeneratingUnmarshaller": false,
"staxTargetDepthOffset": 0
},
"deprecated": false,
"documentation": "The current status of an Elasticsearch domain.
<p>The unique identifier for the specified Elasticsearch domain.

@see #domainId(String)"
},
"enums": null,
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [

"beanStyleGetterMethodName": "getDomainId",
"beanStyleSetterMethodName": "setDomainId",
"c2jName": "DomainId",
"c2jShape": "DomainId",
"defaultConsumerFluentSetterDocumentation": "The unique identifier for the specified Elasticsearch domain."
],
"params": [
"@link String.Builder\n@ See #domainId(String)"
]
"deprecated" : false,
"documentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainId",
"fluentSetterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@param
domainId The unique identifier for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainId",
"getterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@return The unique identifier for the specified Elasticsearch domain.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainId",
"setterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@param
DomainId The unique identifier for the specified Elasticsearch domain.",
"setterMethodName" : "setDomainId",
"setterModel" : {
"variableDeclarationType" : "String"}
"variableName": "domainId",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
",
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "domainId",
"variableType": "String",
"documentation": "<p>The unique identifier for the specified Elasticsearch domain.</p>",
"simpleType": "String",
"variableSetterType": "String"
",
"xmlNameSpaceUri": null
}
,
"beanStyleGetterMethodName": "getDomainName",
"beanStyleSetterMethodName": "setDomainName",
"c2jName": "DomainName",
"c2jShape": "DomainName",
"defaultValueConsumerFluentSetterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #domainName(String)}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #domainName(String)}.<p>
@see #domainName(String)
@deprecated" : false,
"documentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "domainName",
"fluentSetterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>
The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
"getterDocumentation": "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>
@see #domainName(String)
@deprecated" : false,
domains owned by an account within an AWS region. Domain names start with a letter or number and can contain
the following characters: a-z (lowercase), 0-9, and - (hyphen).<p><code>@return</code>The name of an Elasticsearch domain.
Domain names are unique across the domains owned by an account within an AWS region. Domain names start
with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen)."

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "The name of an Elasticsearch domain. Domain names are unique across the
domains owned by an account within an AWS region. Domain names start with a letter or number and can contain
the following characters: a-z (lowercase), 0-9, and - (hyphen).<p><code>@param</code>domainName The name of an
Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region.
Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and -
(hyphen).",

"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
more information.</p>

```

```

The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress. This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean.Builder#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to the method that created a consumer that will call methods on the consumer so that method calls can be chained together.

The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress. Returns a reference to this object so that method calls can be chained together.

The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Created",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Created",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Created",
"setterDocumentation" : "<p>The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.</p>
@param created
The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.",
"setterMethodName" : "setCreated",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "created",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "created",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"documentation" : "<p>The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.</p>"
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNamespaceUri" : null
},
"beanStyleGetterMethodName" : "getDeleted",
"beanStyleSetterMethodName" : "setDeleted",
"c2jName" : "Deleted",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link Boolean#builder()}. When a @param deleted consumer that will call methods on {@link Boolean.Builder} return Returns a reference to this object so that method calls can be chained together.@see #deleted(Boolean)",
"deprecated" : false,
"documentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>",
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "deleted",
"fluentSetterMethodName" : "deleted",
"fluentSetterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>
@param deleted
The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
@return Returns a reference to this object so that method calls can be chained together.
@see #deleted(Boolean)",
"getterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>
@return The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
@see #deleted(Boolean)",
"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.

```
@param deleted
The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
```

```
"setterDocumentation" : "The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.",
"setterMethodName" : "setDeleted",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "deleted",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "deleted",
  "variableType" : "Boolean",
  "documentation" : "The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
}
"xmlnsSpaceUri" : null

"beanStyleGetterMethodName" : "getEndpoint",
"beanStyleSetterMethodName" : "setEndpoint",
"c2jName" : "Endpoint",
"c2jShape" : "ServiceUrl",
"defaultConsumerFluentSetterDocumentation" : "\nThe Elasticsearch domain endpoint that you use to submit index and search requests.\nThis is a convenience that creates an instance of the {@link String.Builder}
avoiding the need to create one manually via {@link String#builder()}.\nWhen the {@link Consumer} completes,\n{@link String.Builder#build()} is called immediately and its result is passed to
{@link #endpoint(String)}.\n\n@returns A reference to this object so that method calls can be chained together.\n@see #endpoint(String)",
"deprecated" : false,
"documentation" : "\nThe Elasticsearch domain endpoint that you use to submit index and search requests.\",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoint",
"fluentSetterDocumentation" : "\nThe Elasticsearch domain endpoint that you use to submit index and search requests.\n\n@returns A reference to this object so that method calls can be chained together.\n@see #endpoint(String)",
"fluentSetterMethodName" : "endpoint",
"getterDocumentation" : "\nThe Elasticsearch domain endpoint that you use to submit index and search requests.\n\n@returns The Elasticsearch domain endpoint that you use to submit index and search requests.\n@see #endpoint(String)",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Endpoint",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Endpoint",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Endpoint",
"setterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>
@<param endpoint> The Elasticsearch domain endpoint that you use to submit index and search requests.</p>",
"setterMethodName" : "setEndpoint",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoint",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoint",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getEndpoints",
"beanStyleSetterMethodName" : "setEndpoints",
"c2jName" : "Endpoints",
"c2jShape" : "EndpointsMap",
"defaultConsumerFluentSetterDocumentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc', 'vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>
This is a convenience that creates an instance of the <code>Map<String, String>.Builder</code> avoiding the need to create one manually via <code>Map<String, String>#builder()</code>. When the <code>@link Consumer</code> completes, <code>Map<String, String>#build()</code> is called immediately and its result is passed to <code>@link #endpoints(Map<String, String>)</code>. @<param endpoints> a consumer that will call methods on <code>Map<String, String>.Builder</code> @<return Returns a reference to this object so that method calls can be chained together.</p>
@<see #endpoints(Map<String, String>)>
"deprecated" : false,
"documentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p> 

"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoints",
"fluentSetterDocumentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>

```
@Param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.
```

\n@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName" : "endpoints",
"getterDocumentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>

\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n
\n@return Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.",

"getterModel" : {
    "returnType" : "java.util.Map<String,String>",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Endpoints",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Endpoints",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2Shape" : "String",
    "defaultValueConsumerDocumentation" : "Sets the value of the Key property for this object.\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}.\n
When the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #key(String)}.\n
@see #key(String)"
  }
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
}
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"setterDocumentation": "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.",
"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "c2jName": "value",
  "c2jShape": "ServiceUrl",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #value(String)\}.
@see #value(String)",
"deprecated": false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "value",
"fluentSetterDocumentation": "Sets the value of the Value property for this object.
@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "value",
"getterDocumentation": "Returns the value of the Value property for this object.
@returns The value of the Value property for this object.",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "value",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "value",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Value",
"setterDocumentation": "Sets the value of the Value property for this object.
@returns The new value for the Value property for this object.",
"setterMethodName": "setValue",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "value",
  "variableType": "String",
  "documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "value",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"entryType": "Map.Entry<String, String>",
"templateType": "java.util.Map<String,String>"
},
"marshallingType": "MAP",
"name": "Endpoints",
"setterDocumentation": "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

@param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.
",
"setterMethodName": "setEndpoints",
"setterModel": {
"variableDeclarationType": "java.util.Map<String,String>",
"variableName": "endpoints",
"variableType": "java.util.Map<String,String>",
"documentation": null,
"simpleType": "Map<String,String>",
"variableSetterType": "java.util.Map<String,String>
"},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.Map<String,String>",
"variableName": "endpoints",
"variableType": "java.util.Map<String,String>",
"documentation": "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

@param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.
",
"variableSetterType": "java.util.Map<String,String>
"}
},
"xmlNameSpaceUri": null}
"beanStyleGetterMethodName": "getProcessing",
"beanStyleSetterMethodName": "setProcessing",
"c2jName": "Processing",
"c2jShape": "Boolean",
"defaultConsumerFluentSetterDocumentation": "\"<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.\nThis is a convenience that creates an instance of the [@link Boolean.Builder] avoiding the need to create one manually via [@link Boolean.Builder#builder()].\nWhen the {@link Consumer} completes, [@link Boolean.Builder#build()] is called immediately and its result is passed to [@link #processing(Boolean)].\n\n@summary \n@param param processing a consumer that will call methods on [@link Boolean.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #processing(Boolean)\n"",
"deprecated": false,
"documentation": "\"<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.\n\</p>\"",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "processing",
"fluentSetterDocumentation": "\"<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.\n\n@summary \n@param param processing The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.\n\n@summary \n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #processing(Boolean)\n"",
"fluentSetterMethodName": "processing",
"getterDocumentation": "\"<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.\n\n@summary \n@return The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.\n\n@see #processing(Boolean)\n"",
"getterModel": {
"returnType": "Boolean",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Processing",
"queryString": false,
"statusCode": false,
"unmarshallLocationName" : "Processing",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Processing",
"setterDocumentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

@<param processing The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

"setterMethodName" : "setProcessing",
"setterModel" : {
"variableDeclarationType" : "Boolean",
"variableName" : "processing",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Boolean",
"variableName" : "processing",
"variableType" : "Boolean",
"documentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

@<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

@<param processing The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

"defaultConsumerFluentSetterDocumentation" : "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

@<link Boolean.Builder> avoiding the need to create one manually via {@link Boolean.Builder}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link
#upgradeProcessing(Boolean)

- **@param upgradeProcessing** a consumer that will call methods on [Boolean.Builder](#).

- **@return** Returns a reference to this object so that method calls can be chained together.

- **@see** #upgradeProcessing(Boolean)

- **deprecated**: false
- **documentation**: "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

- **enumType**: null
- **eventHeader**: false
- **eventPayload**: false
- **fluentEnumGetterMethodName**: null
- **fluentEnumSetterMethodName**: null
- **fluentGetterMethodName**: "upgradeProcessing"
- **fluentSetterDocumentation**: "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

- **getterDocumentation**: "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

- **getterModel**: {
  "returnType": "Boolean",
  "documentation": null
}

- **http**: {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "UpgradeProcessing",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "UpgradeProcessing",
  "uri": false
}

- **idempotencyToken**: false
- **isBinary**: false
- **jsonValue**: false
- **list**: false
- **listModel**: null
- **map**: false
null, "setterDocumentation": "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

@param upgradeProcessing The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.,

"setterMethodName": "setUpgradeProcessing",
"setterModel": {
  "variableDeclarationType": "Boolean",
  "variableName": "upgradeProcessing",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "upgradeProcessing",
  "documentation": "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.,

"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getElasticsearchVersion",
"beanStyleSetterMethodName": "setElasticsearchVersion",
"c2jName": "ElasticsearchVersion",
"c2jShape": "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the ElasticsearchVersion property for this object.\n
This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder].\n
When the [Consumer] completes, [String.Builder#build] is called immediately and its result is passed to [ElasticsearchVersion(String)].\n
@param elasticsearchVersion a consumer that will call methods on [String.Builder]\n
@return Returns a reference to this object so that method calls can be chained together.\n
@see ElasticsearchVersion(String)",

"deprecated": false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersion",
"fluentSetterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object.

@param elasticsearchVersion The new value for the ElasticsearchVersion property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "Returns the value of the ElasticsearchVersion property for this object.

@return The value of the ElasticsearchVersion property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"setterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object.

@param elasticsearchVersion The new value for the ElasticsearchVersion property for this object.
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"}
null


"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"setterDocumentation" : "<p>The type and number of instances in the domain cluster.</p>
@param
elasticsearchClusterConfig The type and number of instances in the domain cluster.
",
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : "The type and number of instances in the domain cluster.
",
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getEbsOptions",
  "beanStyleSetterMethodName" : "setEbsOptions",
  "c2jName" : "EBSOptions",
  "c2jShape" : "EBSOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>The <code>EBSOptions</code> for the specified domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-
This is a convenience that creates an instance of the \{@link EBSOptions.Builder\} avoiding the need to create one manually via \{@link EBSOptions#builder()\}. When the \{@link Consumer\} completes, \{@link EBSOptions.Builder#build()\} is called immediately and its result is passed to \{@link EBSOptions#ebsOptions(EBSOptions)\}.

\@return Returns a reference to this object so that method calls can be chained together.
\@see #ebsOptions(EBSOptions)

\@deprecated
\@since
\@implNote

The \code{EBSOptions} for the specified domain. See \a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createupdatedomains" target="_blank">Configuring EBS-based Storage</a> for more information.

\@param ebsOptions The \code{EBSOptions} for the specified domain. See \a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createupdatedomains" target="_blank">Configuring EBS-based Storage</a> for more information.
\@return Returns a reference to this object so that method calls can be chained together.

\@see #ebsOptions(EBSOptions)
"unmarshallLocationName" : "EBSOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",

"setterMethodName" : "setEbsOptions",
"setterModel" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
  "documentation" : null,
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EBSOptions",
  "variableName" : "ebsOptions",
  "variableType" : "EBSOptions",
  "simpleType" : "EBSOptions",
  "variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getAccessPolicies",
"beanStyleSetterMethodName" : "setAccessPolicies",
"c2jName" : "AccessPolicies",
"c2jShape" : "PolicyDocument",
"defaultConsumerFluentSetterDocumentation" : "IAM access policy as a JSON-formatted string.".

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link
String.Builder#build() is called immediately and its result is passed to `{@link #accessPolicies(String)}`.

@param accessPolicies a consumer that will call methods on `{@link String.Builder}`

@return Returns a reference to this object so that method calls can be chained together.

@see #accessPolicies(String)"

"deprecated" : false,
"documentation" : "<p> IAM access policy as a JSON-formatted string. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string. </p>",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p> IAM access policy as a JSON-formatted string. </p>

@see #accessPolicies(String)"

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AccessPolicies",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AccessPolicies",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"setterDocumentation" : "<p> IAM access policy as a JSON-formatted string. </p>

@see #accessPolicies(String)"

"setterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"isList" : false,
"isMap" : false,
"isMapKey" : false,
"isMapValue" : false,
"isModel" : false,
"isResource" : false,
"isXmlType" : false,
"jsonValue" : false,
"list" : false,
"map" : false,
"mapModel" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
}

"isList" : false,
"isMap" : false,
"isMapKey" : false,
"isMapValue" : false,
"isModel" : false,
"isResource" : false,
"isXmlType" : false,
"jsonValue" : false,
"list" : false,
"map" : false,
"mapModel" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
}
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "accessPolicies",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "accessPolicies",
  "variableType" : "String",
  "documentation" : "IAM access policy as a JSON-formatted string.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getSnapshotOptions",
  "beanStyleSetterMethodName" : "setSnapshotOptions",
  "c2jName" : "SnapshotOptions",
  "c2jShape" : "SnapshotOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
This is a convenience that creates an instance of the {@link SnapshotOptions.Builder} avoiding the need to create one manually via {@link SnapshotOptions#builder()}. When the {@link Consumer} completes, {@link SnapshotOptions.Builder#build()} is called immediately and its result is passed to {@link #snapshotOptions(SnapshotOptions)}.
@para snapshotOptions a consumer that will call methods on {@link SnapshotOptions.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #snapshotOptions(SnapshotOptions)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>.",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "snapshotOptions",
  "fluentSetterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@param snapshotOptions Specifies the status of the <code>SnapshotOptions</code>
@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "snapshotOptions",
  "getterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>.
@para snapshotOptions Specifies the status of the <code>SnapshotOptions</code>@return Returns a reference to this object so that method calls can be chained together.",
  "getterMethodName" : "snapshotOptions",
@para snapshotOptions Specifies the status of the <code>SnapshotOptions</code>@return Returns a reference to this object so that method calls can be chained together.",
  "getterModel" : {

"returnType" : "SnapshotOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SnapshotOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SnapshotOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"ListModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"setterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@param
snapshotOptions Specifies the status of the <code>SnapshotOptions</code>",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
"variableDeclarationType" : "SnapshotOptions",
"variableName" : "snapshotOptions",
"variableType" : "SnapshotOptions",
"documentation" : null,
"simpleType" : "SnapshotOptions",
"variableSetterType" : "SnapshotOptions"
}
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "SnapshotOptions",
"variableName" : "snapshotOptions",
"variableType" : "SnapshotOptions",
"documentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>",
"simpleType" : "SnapshotOptions",
"variableSetterType" : "SnapshotOptions"
The `VPCOptions` for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html) This is a convenience that creates an instance of the `VPCDerivedInfo.Builder` avoiding the need to create one manually via `VPCDerivedInfo.Builder().build()`. When the `Consumer` completes, `VPCDerivedInfo.Builder#build()` is called immediately and its result is passed to `VPCDerivedInfo(VPCDerivedInfo)).return` Returns a reference to this object so that method calls can be chained together.

```
@getters
@getterDocumentation
@gettersMethod
@getterModel
@http
```

```
xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCDerivedInfo",
"defaultConsumerFluentSetterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html) targeted="".\n\n@returns Returns a reference to this object so that method calls can be chained together.

```
@returnsMethod
@returnsModel
@http
```

```
enumType" : null, 
"eventHeader" : false, 
"eventPayload" : false, 
"fluentEnumGetterMethodName" : null, 
"fluentEnumSetterMethodName" : null, 
"fluentGetterMethodName" : "vpcOptions", 
"fluentSetterMethodName" : "vpcOptions", 
"fluentSetterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html) targeted="".\n\nWhen the [Consumer] completes, [VPCDerivedInfo.Builder#build()] is called immediately and its result is passed to [VPCDerivedInfo(VPCDerivedInfo)].\n\n@returns Returns a reference to this object so that method calls can be chained together.

```
@returnsMethod
@returnsModel
@http
```

```
getterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html) targeted="".\n\n@returns Returns a reference to this object so that method calls can be chained together.

```
@returnsMethod
@returnsModel
@http
```

```
returnType" : "VPCDerivedInfo",
"documentation" : null 
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"setterDocumentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",
"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfo",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfo",
  "documentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
The `CognitoOptions` for the specified domain. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html).

This is a convenience that creates an instance of the `CognitoOptions.Builder` avoiding the need to create one manually via `CognitoOptions#builder()`. When the `Consumer` completes, `CognitoOptions.Builder#build()` is called immediately and its result is passed to `CognitoOptions(CognitoOptions)`. `@return` Returns a reference to this object so that method calls can be chained together.

```
@see #cognitoOptions(CognitoOptions)
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```
"setterDocumentation": "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.\n\n@param cognitoOptions The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"setterMethodName": "setCognitoOptions",
"setterModel": {
"variableDeclarationType": "CognitoOptions",
"variableName": "cognitoOptions",
"variableType": "CognitoOptions",
"documentation": null,
"simpleType": "CognitoOptions",
"variableSetterType": "CognitoOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "CognitoOptions",
"variableName": "cognitoOptions",
"variableType": "CognitoOptions",
"documentation": "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"simpleType": "CognitoOptions",
"variableSetterType": "CognitoOptions"
},
"xmlnsSpaceUri": null
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
This is a convenience that creates an instance of the <code>EncryptionAtRestOptions</code> without manually calling <code>EncryptionAtRestOptions#builder()</code>. When the consumer completes, <code>EncryptionAtRestOptions.Builder#build()</code> is called immediately and its result is passed to a consumer that will call methods on <code>EncryptionAtRestOptions</code>. A consumer that will call methods on <code>EncryptionAtRestOptions</code>.

"deprecated" : false,
"documentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
:return Returns a reference to this object so that method calls can be chained together.
@see #encryptionAtRestOptions(EncryptionAtRestOptions)"

"encryptionAtRestOptions" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the <code>EncryptionAtRestOptions</code>.
:return Returns a reference to this object so that method calls can be chained together.

"getterModel" : {
  "returnType" : "EncryptionAtRestOptions",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "EncryptionAtRestOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "EncryptionAtRestOptions",
  "uri" : false
idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EncryptionAtRestOptions",
"setterDocumentation" : "<p> Specifies the status of the
<code>EncryptionAtRestOptions</code>.</p>
@param encryptionAtRestOptions Specifies the status of the
<code>EncryptionAtRestOptions</code>.",

"setterMethodName" : "setEncryptionAtRestOptions",

"setterModel" : {

"variableDeclarationType" : "EncryptionAtRestOptions",

"variableName" : "encryptionAtRestOptions",

"variableType" : "EncryptionAtRestOptions",

"documentation" : null,

"simpleType" : "EncryptionAtRestOptions",

"variableSetterType" : "EncryptionAtRestOptions"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {

"variableDeclarationType" : "EncryptionAtRestOptions",

"variableName" : "encryptionAtRestOptions",

"variableType" : "EncryptionAtRestOptions",

"documentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>
",

"simple" : false,

"variableNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",

"beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",

"c2jName" : "NodeToNodeEncryptionOptions",

"c2jShape" : "NodeToNodeEncryptionOptions",

"defaultValueFluentSetterDocumentation" : "<p>Specifies the status of the
<code>NodeToNodeEncryptionOptions</code>.\n\nThis is a convenience that creates an instance of the \{ @link NodeToNodeEncryptionOptions.Builder\} avoiding the need to create one manually via \{ @link NodeToNodeEncryptionOptions#builder()\}.\n\nWhen the \{ @link Consumer\} completes, \{ @link NodeToNodeEncryptionOptions.Builder#build()\} is called immediately and its result is passed to \{ @link #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)\}.\n\n@param nodeToNodeEncryptionOptions a consumer that will call methods on \{ @link NodeToNodeEncryptionOptions.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #nodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)\n",

"deprecated" : false,
"documentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>. </p>\n@param nodeToNodeEncryptionOptions Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>. </p>
@return Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.",
"getterModel" : {
  "returnType" : "NodeToNodeEncryptionOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "NodeToNodeEncryptionOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "NodeToNodeEncryptionOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"setterDocumentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>. </p>\n@param nodeToNodeEncryptionOptions Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.\n@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : null,
"isString" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NodeToNodeEncryptionOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NodeToNodeEncryptionOptions",
"uri" : false
}
"setterModel": {
    "variableDeclarationType": "NodeToNodeEncryptionOptions",
    "variableName": "nodeToNodeEncryptionOptions",
    "variableType": "NodeToNodeEncryptionOptions",
    "documentation": null,
    "simpleType": "NodeToNodeEncryptionOptions",
    "variableSetterType": "NodeToNodeEncryptionOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "NodeToNodeEncryptionOptions",
    "variableName": "nodeToNodeEncryptionOptions",
    "variableType": "NodeToNodeEncryptionOptions",
    "documentation": "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>
    "simpleType": "NodeToNodeEncryptionOptions",
    "variableSetterType": "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getAdvancedOptions",
"beanStyleSetterMethodName": "setAdvancedOptions",
"c2jName": "AdvancedOptions",
"c2jShape": "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of the <code>AdvancedOptions</code>.</p>
This is a convenience that creates an instance of the @link Map<String,String>.Builder avoiding the need to create one manually via @link Map<String,String>#builder().\n\nWhen the @link Consumer completes, @link Map<String,String>.Builder#build() is called immediately and its result is passed to @link #advancedOptions(Map<String,String>).\n\n@see #advancedOptions(Map<String,String>)",
"deprecated": false,
"documentation": "<p>Specifies the status of the <code>AdvancedOptions</code>.</p>
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "advancedOptions",
"fluentSetterDocumentation": "<p>Specifies the status of the <code>AdvancedOptions</code>.</p>
@param advancedOptions Specifies the status of the <code>AdvancedOptions</code>
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName": "advancedOptions",
"getterDocumentation": "<p>Specifies the status of the <code>AdvancedOptions</code>.</p>
\n@see #advancedOptions(Map<String,String>)",
"getterModel": {
    "variableDeclarationType": "NodeToNodeEncryptionOptions",
    "variableName": "nodeToNodeEncryptionOptions",
    "variableType": "NodeToNodeEncryptionOptions",
    "documentation": null,
    "simpleType": "NodeToNodeEncryptionOptions",
    "variableSetterType": "NodeToNodeEncryptionOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "NodeToNodeEncryptionOptions",
    "variableName": "nodeToNodeEncryptionOptions",
    "variableType": "NodeToNodeEncryptionOptions",
    "documentation": null,
    "simpleType": "NodeToNodeEncryptionOptions",
    "variableSetterType": "NodeToNodeEncryptionOptions"
};
"returnType" : "java.util.Map<String,String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AdvancedOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AdvancedOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
"implType" : "java.util.HashMap",
"interfaceType" : "java.util.Map",
"keyLocationName" : "key",
"keyModel" : {
  "beanStyleGetterMethodName" : "getKey",
  "beanStyleSetterMethodName" : "setKey",
  "c2jName" : "key",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #key(String)\}.\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #key(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "key",
  "fluentSetterMethodName" : null,
  "fluentUnmarshallPath" : null,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AdvancedOptions",
  "queryString" : false,
  "statusCode" : false,
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.

@return The value of the Key property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
idempotencyToken" : false,
isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setKey",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder\}. When the \{@link Consumer\} completes, \{@link String.Builder#build\} is called immediately and its result is passed to \{@link String#value\}.\n\n@see #value(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object. The new value for the Value property for this object.\n\n@see #value(String)",
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.\n\n@see #value(String)",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "value",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "value",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Value",
"setterDocumentation": "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object."
,"setterMethodName": "setValue",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "value",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "value",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"entryType": "Map.Entry<String, String>",
"templateType": "java.util.Map<String,String>"
},
"marshallingType": "MAP",
"name": "AdvancedOptions",
"setterDocumentation": "<p>Specifies the status of the <code>AdvancedOptions</code></p>\n@param advancedOptions Specifies the status of the <code>AdvancedOptions</code>\n
"setterMethodName": "setAdvancedOptions",
"setterModel" : {
"variableDeclarationType" : "java.util.Map<String,String>",
"variableName" : "advancedOptions",
"variableType" : "java.util.Map<String,String>",
"documentation" : null,
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.Map<String,String>",
"variableName" : "advancedOptions",
"variableType" : "java.util.Map<String,String>",
"documentation" : "Specifies the status of the \<code>AdvancedOptions</code>\</p>",
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>
},
"xmlNameSpaceUri" : null
},
{"beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
"beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
"c2jName" : "LogPublishingOptions",
"c2jShape" : "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation" : "\<p>Log publishing options for the given domain.\</p>\nThis is a convenience that creates an instance of the \{@link Map\<String,LogPublishingOption\>.Builder\} avoiding the need to create one manually via \{@link Map\<String,LogPublishingOption\>#builder()\}\.\n\nWhen the \{@link LogConsumer\} completes, \{@link Map\<String,LogPublishingOption\>.Builder#build()\} is called immediately and its result is passed to \{@link #logPublishingOptionsAsStrings(Map\<String,LogPublishingOption\>\)}\.\n\n@param logPublishingOptions a consumer that will call methods on \{@link Map\<String,LogPublishingOption\>.Builder\}\@return Returns a reference to this object so that method calls can be chained together.\n@see #logPublishingOptionsWithStrings(Map\<String,LogPublishingOption\>\)",
"deprecated" : false,
"documentation" : "Log publishing options for the given domain.\</p>\",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "Log publishing options for the given domain.\</p>\n@param logPublishingOptions Log publishing options for the given domain.\n@return Returns a reference to this object so that method calls can be chained together.\n"fluentSetterMethodName" : "logPublishingOptionsWithStrings",
"getterDocumentation" : "Log publishing options for the given domain.\</p>\n@throws UnsupportedOperationException\n@returns Log publishing options for the given domain.\n"getterModel" : {
"returnType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "LogPublishingOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LogPublishingOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
"implType" : "java.util.HashMap",
"interfaceType" : "java.util.Map",
"keyLocationName" : "key",
"keyModel" : {
"beanStyleGetterMethodName" : "getKeyAsString",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "key",
"c2jShape" : "LogType",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n
This is a convenience that creates an instance of the \n@link String.Builder\n avoiding the need to create one manually via \n{ @link String.Builder\n} .\n\nWhen the \n@link Consumer\n completes, \n@link String.Builder\n is called immediately and its result is passed to \n@link #keyAsString(String)\n .\n\n@see #key(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : "LogType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "key",
"fluentEnumSetterMethodName" : "key",
"fluentGetterMethodName" : "keyAsString";
}
"fluentSetterDocumentation": "Sets the value of the Key property for this object. The new value for the Key property for this object. Returns a reference to this object so that method calls can be chained together.

@see LogType

@returns a reference to this object so that method calls can be chained together.
@see LogType",

"fluentSetterMethodName": "key",

"getterDocumentation": "Returns the value of the Key property for this object. If the service returns an enum value that is not available in the current SDK version, { @link #key } will return { @link LogType#UNKNOWN_TO_SDK_VERSION }. The raw value returned by the service is available from { @link #keyAsString }."

@returns The value of the Key property for this object.
@see LogType",

"getterModel": {
"returnType": "String",
"documentation": null
}

"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "key",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "key",
"uri": false
},

"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",

"setterDocumentation": "Sets the value of the Key property for this object. The new value for the Key property for this object."

@see LogType",

"setterMethodName": "setKey",

"setterModel": {
"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"  
}
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption",
  "defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the {@link LogPublishingOption.Builder} avoiding the need to create one manually via {@link LogPublishingOption#builder()}. When the {@link Consumer} completes, {@link LogPublishingOption.Builder#build()} is called immediately and its result is passed to {@link LogPublishingOption#value(LogPublishingOption)}.{@code @param value a consumer that will call methods on {@link LogPublishingOption.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #value(LogPublishingOption)}

  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.

The new value for the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.

  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.

  "getterModel" : {
    "returnType" : "LogPublishingOption",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.\",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : "",
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions"
"setterDocumentation" : "<p>Log publishing options for the given domain.</p>
@param logPublishingOptions Log publishing options for the given domain.",
"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String, LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String, LogPublishingOption>",
  "documentation" : null,
  "simpleType" : "Map<String, LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String, LogPublishingOption>
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String, LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String, LogPublishingOption>",
  "documentation" : "<p>Log publishing options for the given domain.</p>
  "simpleType" : "Map<String, LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String, LogPublishingOption>
},
"xmlNameSpaceUri" : null
},
{"beanStyleGetterMethodName" : "getServiceSoftwareOptions",
"beanStyleSetterMethodName" : "setServiceSoftwareOptions",
"c2jName" : "ServiceSoftwareOptions",
"c2jShape" : "ServiceSoftwareOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain's service software. This is a convenience that creates an instance of the @link ServiceSoftwareOptions.Builder avoiding the need to create one manually via @link ServiceSoftwareOptions#builder(). When the @link Consumer completes, @link ServiceSoftwareOptions.Builder#build() is called immediately and its result is passed to @link ServiceSoftwareOptions(ServiceSoftwareOptions). @return Returns a reference to this object so that method calls can be chained together. @see ServiceSoftwareOptions(ServiceSoftwareOptions)",
"deprecated" : false,
"documentation" : "<p>The current status of the Elasticsearch domain's service software. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "serviceSoftwareOptions",
"fluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain's service software. </p>
\n@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p>The current status of the Elasticsearch domain's service software. </p>
\n@return The current status of the Elasticsearch domain's service software.",
"setterMethodNames" : ["setLogPublishingOptionsWithStrings"],
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String, LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String, LogPublishingOption>",
  "documentation" : null,
  "simpleType" : "Map<String, LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String, LogPublishingOption>"}
"getterModel" : {
  "returnType" : "ServiceSoftwareOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ServiceSoftwareOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ServiceSoftwareOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"marshallType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"setterDocumentation" : "The current status of the Elasticsearch domain's service software.
@param serviceSoftwareOptions The current status of the Elasticsearch domain's service software.",
"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : "The current status of the Elasticsearch domain's service software.",
  "simpleType" : "ServiceSoftwareOptions"
"variableSetterType" : "ServiceSoftwareOptions",
},
"xmlNameSpaceUri" : null
}
"membersAsMap" : {
"ARN" : {
"beanStyleGetterMethodName" : "getArn",
"beanStyleSetterMethodName" : "setArn",
"c2jName" : "ARN",
"c2jShape" : "ARN",

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #arn(String)}. Return a consumer that will call methods on { @link String.Builder}.

@see #arn(String)

"deprecated" : false,

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterMethodName" : "arn",

When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #arn(String)}. Return a reference to this object so that method calls can be chained together.


@return Returns a reference to this object so that method calls can be chained together.

@see #arn(String)


When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #arn(String)}. Return a reference to this object so that method calls can be chained together.

@return Returns a reference to this object so that method calls can be chained together.

@see #arn(String)

"getterModel" : {
"returnType" : "String",
"documentation" : null
}.}
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ARN",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ARN",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"setterMethodName" : "setArn",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "arn",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "arn",
    "variableType" : "String",
    "documentation" : "<p>The Amazon resource name (ARN) of an Elasticsearch domain. See <a}

"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"AccessPolicies" : {
"beanStyleGetterMethodName" : "getAccessPolicies",
"beanStyleSetterMethodName" : "setAccessPolicies",
"c2jName" : "AccessPolicies",
"c2jShape" : "PolicyDocument",
"defaultConsumerFluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #accessPolicies(String)}. When the parameter completes, a consumer that will call methods on a consumer a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p> IAM access policy as a JSON-formatted string.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.
@see #accessPolicies(String)",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.
@see #accessPolicies(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"simpleType" : "String",
"variableSetterType" : "String"}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"setterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies
IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "accessPolicies",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "accessPolicies",
"variableType" : "String",
"documentation" : "<p> IAM access policy as a JSON-formatted string.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"AdvancedOptions" : {
"beanStyleGetterMethodName" : "getAdvancedOptions",
"beanStyleSetterMethodName" : "setAdvancedOptions",
"c2jName" : "AdvancedOptions",
"c2jShape" : "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the
<code>AdvancedOptions</code></p>\nThis is a convenience that creates an instance of the { @link
Map<String,String>.Builder} avoiding the need to create one manually via { @link
Map<String,String>#builder()}.\nWhen the { @link Consumer} completes, { @link
Map<String,String>.Builder#build()} is called immediately and its result is passed to { @link
#advancedOptions(Map<String,String>)}.\n@param advancedOptions a consumer that will call methods on { @link
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"keyLocationName" : "key",
"keyModel" : {
  "beanStyleGetterMethodName" : "getKey",
  "beanStyleSetterMethodName" : "setKey",
  "c2jName" : "key",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via
{ @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}.
@return Returns a reference to this object so that method calls can be chained together.
@see #key(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "key",
  "fluentSetterMethodName" : "key",
  "fluentSetterDocumentation" : "Sets the value of the Key property for this object.
The new value for the Key property for this object.
"returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},
  "idempotencyToken" : false,
  "isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.",
"setterMethodName" : "setKey",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" :",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.builder()]. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [#value(String)].

@deprecated
@see #value(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.\n@param value The new value for the Value property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.\n@return The value of the Value property for this object.",
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "value",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "value",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.\n@param value The new value for the Value property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setValue",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "value",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String, String>"
},
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"setterDocumentation" : "<p>Specifies the status of the <code>AdvancedOptions</code>

@param advancedOptions Specifies the status of the <code>AdvancedOptions</code>

.setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "<p>Specifies the status of the <code>AdvancedOptions</code></p>
  
  @param advancedOptions Specifies the status of the <code>AdvancedOptions</code>

.setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"xmlNameSpaceUri" : null
},
"CognitoOptions" : {
  "beanStyleGetterMethodName" : "getCognitoOptions",
  "beanStyleSetterMethodName" : "setCognitoOptions",
  "c2jName" : "CognitoOptions",
  "c2jShape" : "CognitoOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>The <code>CognitoOptions</code> for the specified
domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-
service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for

This is a convenience that creates an instance of the `CognitoOptions.Builder` avoiding the need to create one manually via `CognitoOptions.Builder#builder()`. When the `CognitoOptions.Builder#build()` is called immediately and its result is passed to `CognitoOptions(CognitoOptions)`.

@see CognitoOptions(CognitoOptions)

@deprecated

Documentation:

The `<code>CognitoOptions</code>` for the specified domain. For more information, see [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html)

@returns

A reference to this object so that method calls can be chained together.

@see CognitoOptions(CognitoOptions)
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",

"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
"Created" :
  "beanStyleGetterMethodName" : "getCreated",
  "beanStyleSetterMethodName" : "setCreated",
  "c2jName" : "Created",
  "c2jShape" : "Boolean",
  "defaultValueConsumerFluentSetterDocumentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress."
}

This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to
create one manually via {@link Boolean#builder}.

When the {@link Consumer} completes, {@link Boolean.Builder#build}) is called immediately and its result is passed to {@link #created(Boolean)}. @param created a consumer that will call methods on {@link Boolean.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #created(Boolean)

"deprecated" : false,
"documentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "created",
"fluentSetterDocumentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

"getterDocumentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Created",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Created",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.

The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.

This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean.Builder#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link Boolean#builder()}.

A consumer that will call methods on {@link Boolean.Builder}.

Returns a reference to this object so that method calls can be chained together.

@see #deleted(Boolean)

Once domain deletion is complete, the status of the domain is no longer returned.

@deprecated

The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted.
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "deleted",
"fluentSetterDocumentation" : "\n\nThe domain deletion status. `<code>True</code>` if a delete request has been received for the domain but resource cleanup is still in progress. `<code>False</code>` if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
\n@code
\n\n@return
\nReturns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "deleted",

"getterDocumentation" : "\n\nThe domain deletion status. `<code>True</code>` if a delete request has been received for the domain but resource cleanup is still in progress. `<code>False</code>` if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
\n@code
\n\n@return
\nThe domain deletion status. `<code>True</code>` if a delete request has been received for the domain but resource cleanup is still in progress. `<code>False</code>` if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
",
"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Deleted",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Deleted",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Deleted"
"setterDocumentation" : "The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned."

"setterMethodName" : "setDeleted",
"setterModel" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "deleted",
    "variableType" : "Boolean",
    "documentation" : null,
    "simpleType" : "Boolean",
    "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "deleted",
    "variableType" : "Boolean",
    "documentation" : "The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned."
},
"xmlnsNameSpaceUri" : null,

"DomainId" : {
    "beanStyleGetterMethodName" : "getDomainId",
    "beanStyleSetterMethodName" : "setDomainId",
    "c2jName" : "DomainId",
    "c2jShape" : "DomainId",
    "defaultConsumerFluentSetterDocumentation" : "The unique identifier for the specified Elasticsearch domain.
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.
When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to the domainId method.
A consumer that will call methods on the returned reference to this object so that method calls can be chained together.
@see #domainId(String)"
},
"deprecated" : false,
"documentation" : "The unique identifier for the specified Elasticsearch domain."
"fluentSetterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@param domainId The unique identifier for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainId",
"getterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@return The unique identifier for the specified Elasticsearch domain.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainId",
"setterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@param domainId The unique identifier for the specified Elasticsearch domain.",
"setterMethodName" : "setDomainId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat": null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainId",
  "variableType" : "String",
  "documentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"DomainName" : {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>
This is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link String#builder()].
When the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #domainName(String)].
\n@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
  "deprecated" : false,
  "documentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>
\n@return Returns a reference to this object so that method calls can be chained together.
",
  "fluentSetterMethodName" : "domainName",
  "getterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).</p>
\n@return Returns a reference to this object so that method calls can be chained together.
",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  }
}
The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen). The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).
owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>

"simpleType" : "String",
"variableSetterType" : "String"
],
"xmlnsNameSpaceUri" : null
},
"EBSOptions" : {
"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>The <code>EBSOptions</code> for the specified domain. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs" target="_blank">Configuring EBS-based Storage</a> for more information.</p>\n\nThis is a convenience that creates an instance of the {@link EBSOptions.Builder} avoiding the need to create one manually via {@link EBSOptions#builder()}.\n\nWhen the {@link Consumer} completes, the [<link EBSOptions.Builder#build()]) is called immediately and its result is passed to [<link #ebsOptions(EBSOptions)).\n\n@returns a consumer that will call methods on [<link EBSOptions.Builder]\n\n@see #ebsOptions(EBSOptions)")

"deprecated" : false,

"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",

@returns a reference to this object so that method calls can be chained together.
\n@see #ebsOptions(EBSOptions)")


@returns a reference to this object so that method calls can be chained together.
\n@see #ebsOptions(EBSOptions)")

"getterModel" : {
"returnType" : "EBSOptions",
"documentation" : null
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "EBSOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "EBSOptions",
  "uri": false,
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "EBSOptions",
"setterMethodName": "setEbsOptions",
"setterModel": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "ebsOptions",
  "variableType": "EBSOptions",
  "documentation": null,
  "simpleType": "EBSOptions",
  "variableSetterType": "EBSOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "ebsOptions",
  "variableType": "EBSOptions",
  "documentation": null,
  "simpleType": "EBSOptions",
  "variableSetterType": "EBSOptions"
},
"simple": false,
Configuring EBS-based Storage for more information:

**simpleType**: "EBSOptions",
**variableSetterType**: "EBSOptions"

This is a convenience that creates an instance of the `ElasticsearchClusterConfig` avoiding the need to create one manually via `ElasticsearchClusterConfig#builder()`. When the consumer completes, `ElasticsearchClusterConfig.Builder#build()` is called immediately and its result is passed to a consumer that will call methods on `ElasticsearchClusterConfig.Builder`.

@see `ElasticsearchClusterConfig(ElasticsearchClusterConfig)`

The type and number of instances in the domain cluster.

@deprecated: false,
@enumType: null,
@eventHeader: false,
@eventPayload: false,
@fluentEnumGetterMethodName: null,
@fluentEnumSetterMethodName: null,
@fluentGetterMethodName: "elasticsearchClusterConfig",
@fluentSetterDocumentation: "The type and number of instances in the domain cluster.

@getterDocumentation: "The type and number of instances in the domain cluster.

@getterModel: {
  @returnType: "ElasticsearchClusterConfig",
  @documentation: null
},
@http: {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD"}
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"setterDocumentation" : "The type and number of instances in the domain cluster."
@param elasticsearchClusterConfig The type and number of instances in the domain cluster.",
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : "The type and number of instances in the domain cluster.",
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchVersion" : {
  "beanStyleGetterMethodName" : "getElasticsearchVersion",
  "beanStyleSetterMethodName" : "setElasticsearchVersion",
  "c2jName" : "ElasticsearchVersion",
  "c2jShape" : "ElasticsearchVersionString",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object.

This is a convenience that creates an instance of the {
String.Builder} avoiding the need to create one manually via {
String#builder()}. When the {
Consumer} completes, {
StringBuilder#build()} is called immediately and its result is passed to {
ElasticsearchVersion(String)}.

@param elasticsearchVersion a consumer that will call methods on {
String.Builder}.
"}
String.Builder

@returns Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)

deprecated": false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "elasticsearchVersion",
"fluentSetterDocumentation": "Sets the value of the ElasticsearchVersion property for this object.

@param elasticsearchVersion The new value for the ElasticsearchVersion property for this object.
@returns Returns a reference to this object so that method calls can be chained together.

setterMethod": "setElasticsearchVersion",
getterMethod": "getElasticsearchVersion",
getterDocumentation": "Returns the value of the ElasticsearchVersion property for this object.

getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "ElasticsearchVersion",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "ElasticsearchVersion",
  "uri": false
},
idempotencyToken": false,
isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ElasticsearchVersion",
"setterDocumentation": "Sets the value of the ElasticsearchVersion property for this object.

setterMethodName": "setElasticsearchVersion",
setterMethod": "setElasticsearchVersion",
}
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"EncryptionAtRestOptions" : {
  "beanStyleGetterMethodName" : "getEncryptionAtRestOptions",
  "beanStyleSetterMethodName" : "setEncryptionAtRestOptions",
  "c2jName" : "EncryptionAtRestOptions",
  "c2jShape" : "EncryptionAtRestOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>. </p> This is a convenience that creates an instance of the <code>EncryptionAtRestOptions</code> avoiding the need to create one manually via <code>{@link EncryptionAtRestOptions#builder()}</code>. When the <code>@link Consumer</code> completes, <code>{@link EncryptionAtRestOptions.Builder#build()}</code> is called immediately and its result is passed to <code>{@link EncryptionAtRestOptions(EncryptionAtRestOptions)}</code> a consumer that will call methods on <code>{@link EncryptionAtRestOptions.Builder}</code> so that method calls can be chained together.<code>{@link EncryptionAtRestOptions(EncryptionAtRestOptions)}</code>.
  "deprecated" : false,
  "documentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>. </p>"
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "encryptionAtRestOptions",
  "fluentSetterDocumentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>. </p>"
  "fluentSetterMethodName" : "encryptionAtRestOptions",
  "getterDocumentation" : "<p> Specifies the status of the <code>EncryptionAtRestOptions</code>. </p>"
  "getterMethodName" : "encryptionAtRestOptions",
  "getters" : null,
  "getTypeName" : "EncryptionAtRestOptions",
  "isOptional" : false,
  "isSimple" : true,
  "isTypePresent" : null,
  "namedArguments" : null,
  "parameters" : null,
  "superClass" : null,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "elasticsearchVersion",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "xmlNameSpaceUri" : null
}

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<code>EncryptionAtRestOptions</code>.

"getterModel" : {
  "returnType" : "EncryptionAtRestOptions",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "EncryptionAtRestOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "EncryptionAtRestOptions",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"name" : "EncryptionAtRestOptions",

"setterDocumentation" : 
<p> Specifies the status of the 
<code>EncryptionAtRestOptions</code>.

"setterMethodName" : "setEncryptionAtRestOptions",

"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions"


"documentation": "<p>Specifies the status of the <code>EncryptionAtRestOptions</code>.</p>",
"simpleType": "EncryptionAtRestOptions",
"variableSetterType": "EncryptionAtRestOptions"
}
,"xmlnsSpaceUri": null
},
"Endpoint": {
"beanStyleGetterMethodName": "getEndpoint",
"beanStyleSetterMethodName": "setEndpoint",
"c2jName": "Endpoint",
"c2jShape": "ServiceUrl",
"defaultConsumerFluentSetterDocumentation": "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #endpoint(String)].\n\n@param endpoint a consumer that will call methods on [@link String.Builder]\n@see endpoint(String)
\n@deprecated": false,
"documentation": "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #endpoint(String)].\n\n@param endpoint a consumer that will call methods on [@link String.Builder]\n@see endpoint(String)
\n@deprecated": false,
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "endpoint",
"fluentSetterDocumentation": "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #endpoint(String)].\n\n@param endpoint The Elasticsearch domain endpoint that you use to submit index and search requests.\n\n@see endpoint(String)\n\n@deprecated": false,
"documentation": "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #endpoint(String)].\n\n@param endpoint The Elasticsearch domain endpoint that you use to submit index and search requests.\n\n@see endpoint(String)
\n@deprecated": false,
"getterDocumentation": "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [...]
The Elasticsearch domain endpoint that you use to submit index and search requests.

@code

@link Map<String,String> Builder

This is a convenience that creates an instance of the {@link Map<String,String> Builder} avoiding the need to create one manually via {@link Map<String,String> #builder()}. When the {@link Consumer} completes, {@link

"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "endpoint",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlnsNamespaceUri": null
},
"Endpoints": {
  "beanStyleGetterMethodName": "getEndpoints",
  "beanStyleSetterMethodName": "setEndpoints",
  "c2jName": "Endpoints",
  "c2jShape": "EndpointsMap",
  "defaultConsumerFluentSetterDocumentation": "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc',vpc-endpoint-h2ds34efggyhtgkut5gt6j2fob4.us-east-1.es.amazonaws.com'</code>.</p>

This is a convenience that creates an instance of the {@link Map<String,String> Builder} avoiding the need to create one manually via {@link Map<String,String> #builder()}. When the {@link Consumer} completes, {@link
Map<String,String>.Builder#build() is called immediately and its result is passed to (param endpoints a consumer that will call methods on Map<String,String>.Builder)
@return Returns a reference to this object so that method calls can be chained together.
@see #endpoints(Map<String,String>)

"deprecated" : false,
"documentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoints",
"fluentSetterMethodName" : "endpoints",
"getterDocumentation" : "Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

"getterModel" : {
  "returnType" : "java.util.Map<String,String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Endpoints",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Endpoints",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": true,
"mapModel": {
  "implType": "java.util.HashMap",
  "interfaceType": "java.util.Map",
  "keyLocationName": "key",
  "keyModel": {
    "beanStyleGetterMethodName": "getKey",
    "beanStyleSetterMethodName": "setKey",
    "c2jName": "key",
    "c2jShape": "String",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the \{ @link String.Builder\} avoiding the need to create one manually via \{ @link String#builder()\}.

When the \{ @link Consumer\} completes, \{ @link String.Builder#build()\} is called immediately and its result is passed to \{ @link #key(String)\}.

@see #key(String)
@return Returns a reference to this object so that method calls can be chained together.

@deprecated
@documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "key",
"fluentSetterDocumentation": "Sets the value of the Key property for this object.

The new value for the Key property for this object.

@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName": "key",
"getterDocumentation": "Returns the value of the Key property for this object.

@return The value of the Key property for this object.
",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD"
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object."
,
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "ServiceUrl",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.\n\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link String#builder()].\n\nWhen the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #value(String)].\n\n@param value The new value for the Value property for this object."
,
consumer that will call methods on { @link String.Builder}n@return Returns a reference to this object so that method calls can be chained together.n@see #value(String)
",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.
\n\n@returns The value of the Value property for this object.
",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "value",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "value",
 "uri" : false
},
 "idempotencyToken" : false,
 "isBinary" : false,
 "jsonValue" : false,
 "list" : false,
 "listModel" : null,
 "map" : false,
 "mapModel" : null,
 "marshallingType" : "STRING",
 "name" : "Value",
 "setterDocumentation" : "Sets the value of the Value property for this object.
\n\n@returns The value of the Value property for this object.
",
 "setterMethodName" : "setValue"}
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "Endpoints",
"setterDocumentation" : "\n\n\n"<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example &lt;code&gt;key, value&lt;/code&gt;: &lt;code&gt;'vpc',&lt;/code&gt;'vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'&lt;/code&gt;.&lt;/p&gt;&lt;p&gt;\n@param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example &lt;code&gt;key, value&lt;/code&gt;: &lt;code&gt;'vpc',&lt;/code&gt;'vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'&lt;/code&gt;.,
"setterMethodName" : "setEndpoints",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "",
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "",
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "",
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>
},
"simple" : false,
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>",
"xmlNameSpaceUri" : null
},
"LogPublishingOptions" : {
  "beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
  "beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
  "c2jName" : "LogPublishingOptions",
  "c2jShape" : "LogPublishingOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Log publishing options for the given domain.</p>
  This is a convenience that creates an instance of the \{@link Map\<String,LogPublishingOption\>.Builder\} avoiding the need to create one manually via \{@link Map\<String,LogPublishingOption\>#builder\}.\n
  When the \{@link Consumer\} completes, \{@link Map\<String,LogPublishingOption\>.Builder#build\} is called immediately and its result is passed to \{@link #logPublishingOptionsAsStrings(Map\<String,LogPublishingOption\>)\}.

  @param logPublishingOptions a consumer that will call methods on \{@link Map\<String,LogPublishingOption\>.Builder\}\n  @return Returns a reference to this object so that method calls can be chained together.\n  @see #logPublishingOptionsWithStrings(Map\<String,LogPublishingOption\>)",
  "deprecated" : false,
  "documentation" : "<p>Log publishing options for the given domain.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "logPublishingOptions",
  "fluentEnumSetterMethodName" : "logPublishingOptions",
  "fluentGetterMethodName" : "logPublishingOptionsAsStrings",
  "fluentSetterDocumentation" : "<p>Log publishing options for the given domain.</p>
  @param logPublishingOptions Log publishing options for the given domain.
  @return Returns a reference to this object so that method calls can be chained together.\n",
  "fluentSetterMethodName" : "logPublishingOptionsWithStrings",
  "getterDocumentation" : "<p>Log publishing options for the given domain.</p>
  Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n  @return Log publishing options for the given domain."
",
  "getterModel" : {
    "returnType" : "java.util.Map\<String,LogPublishingOption\>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "LogPublishingOptions",
  }
}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LogPublishingOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
"implType" : "java.util.HashMap",
"interfaceType" : "java.util.Map",
"keyLocationName" : "key",
"keyModel" : {
"beanStyleGetterMethodName" : "getKeyAsString",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "key",
"c2jShape" : "LogType",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #keyAsString(String)\}.\n\n@param key a consumer that will call methods on \{@link String.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see LogType",
"deprecated" : false,
"documentation" : "",
"enumType" : "LogType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "key",
"fluentEnumSetterMethodName" : "key",
"fluentGetterMethodName" : "keyAsString",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThe new value for the Key property for this object.\n\n@see LogType\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see LogType",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.\n\nIf the service returns an enum value that is not available in the current SDK version, \{ @link LogType#UNKNOWN_TO_SDK_VERSION \} will return \{ @link LogType\}.\n\nThe raw value returned by the service is available from \{ @link LogType#keyAsString \}.\n\n\n\n\n@return The value of the Key property for this object.\n\n@see LogType",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
}
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "LogPublishingOption",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the { @link LogPublishingOption.Builder} avoiding the need to create one manually via { @link LogPublishingOption#builder()}.

When the { @link Consumer} completes, { @link LogPublishingOption.Builder#build()} is called immediately and its result is passed to { @link LogPublishingOption.Builder}.

@see #value(LogPublishingOption)

@returns Returns a reference to this object so that method calls can be chained together.

@deprecated : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

Sets the value of the Value property for this object.

Sets the value of the Value property for this object.

"getterDocumentation" : "Returns the value of the Value property for this object.

Returns the value of the Value property for this object.

Returns the value of the Value property for this object.

"getterModel" : {
    "returnType" : "LogPublishingOption",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "value",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "value",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : "",
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"setterDocumentation" : "\n<p>Log publishing options for the given domain.</p>\n\n@param logPublishingOptions Log publishing options for the given domain."
,"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : null,
  "simpleType" : "Map<String,LogPublishingOption>",
  "variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "$\text{java.util.Map<String,LogPublishingOption}>$",
"variableName" : "$\text{logPublishingOptions}$",
"variableType" : "$\text{java.util.Map<String,LogPublishingOption>}$",
"documentation" : "<p>Log publishing options for the given domain.</p>",
"simpleType" : "$\text{Map<String,LogPublishingOption>}$",
"variableSetterType" : "$\text{java.util.Map<String,LogPublishingOption>}$
},
"xmlNameSpaceUri" : null
},
"NodeToNodeEncryptionOptions" : {
"beanStyleGetterMethodName" : "getNodeToNodeEncryptionOptions",
"beanStyleSetterMethodName" : "setNodeToNodeEncryptionOptions",
"c2jName" : "$\text{NodeToNodeEncryptionOptions}$",
"c2jShape" : "$\text{NodeToNodeEncryptionOptions}$",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the $\text{NodeToNodeEncryptionOptions}$.</p>
This is a convenience that creates an instance of the $\text{NodeToNodeEncryptionOptions.Builder}$ avoiding the need to create one manually via $\text{NodeToNodeEncryptionOptions#builder()}$. When the $\text{Consumer}$ completes, $\text{NodeToNodeEncryptionOptions.Builder#build()}$ is called immediately and its result is passed to $\text{NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)}$. a consumer that will call methods on $\text{NodeToNodeEncryptionOptions.Builder}$ a return Returns a reference to this object so that method calls can be chained together.

@see NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)
","deprecated" : false,
"documentation" : "<p>Specifies the status of the $\text{NodeToNodeEncryptionOptions}$.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : "<p>Specifies the status of the $\text{NodeToNodeEncryptionOptions}$.</p>
@param nodeToNodeEncryptionOptions Specifies the status of the $\text{NodeToNodeEncryptionOptions}$.
@return Returns a reference to this object so that method calls can be chained together.
", 
"getterDocumentation" : "<p>Specifies the status of the $\text{NodeToNodeEncryptionOptions}$.</p>
","getterModel" : {
"returnType" : "$\text{NodeToNodeEncryptionOptions}$",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri" : null
},
"Processing" : {
  "beanStyleGetterMethodName" : "getProcessing",
  "beanStyleSetterMethodName" : "setProcessing",
  "c2jName" : "Processing",
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
}
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>

This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean.Builder#builder()}. When the { @link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to { @link #processing(Boolean)}. When the { @link Boolean.Builder} returns a reference to this object so that method calls can be chained together.<p></p>

@see #processing(Boolean)"

"deprecated" : false,
"documentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.<p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "processing",
"fluentSetterDocumentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.<p>

@param processing The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.<p>

@returns a reference to this object so that method calls can be chained together."",
"getterDocumentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.<p>

@returns a reference to this object so that method calls can be chained together.

@see #processing(Boolean)"

"getterModel" : {
    "returnType" : "Boolean",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Processing",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Processing",
    "uri" : false
},

@Open Source Used In Data Center Network Manager 11.5(1) 19917
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Processing",
"setterDocumentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active."
@param processing The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

"setterMethodName" : "setProcessing",
"setterModel" : {
"variableDeclarationType" : "Boolean",
"variableName" : "processing",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Boolean",
"variableName" : "processing",
"variableType" : "Boolean",
"documentation" : "The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active."
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"ServiceSoftwareOptions" : {
"beanStyleGetterMethodName" : "getServiceSoftwareOptions",
"beanStyleSetterMethodName" : "setServiceSoftwareOptions",
"c2jName" : "ServiceSoftwareOptions",
"c2jShape" : "ServiceSoftwareOptions",
"defaultConsumerFluentSetterDocumentation" : "The current status of the Elasticsearch domain's service software."

This is a convenience that creates an instance of the [ @link ServiceSoftwareOptions.Builder] avoiding the need to create one manually via [ @link ServiceSoftwareOptions#builder()].

When the [ @link Consumer] completes, [ @link ServiceSoftwareOptions.Builder#build() ] is called immediately and its result is passed to [ @link #serviceSoftwareOptions(ServiceSoftwareOptions)#serviceSoftwareOptions]

If a consumer that will call methods on [ @link ServiceSoftwareOptions.Builder] returns a reference to this object so that method calls can be chained together.
@see #serviceSoftwareOptions(ServiceSoftwareOptions)
"
"deprecated" : false,
"documentation" : "The current status of the Elasticsearch domain's service software.

@returns Returns a reference to this object so that method calls can be chained together.

@serviceSoftwareOptions The current status of the Elasticsearch domain's service software.

return The current status of the Elasticsearch domain's service software.

'getterModel' : {
  "returnType" : "ServiceSoftwareOptions",
  "documentation" : null
},

'http' : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ServiceSoftwareOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ServiceSoftwareOptions",
  "uri" : false
},

'idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"setterDocumentation" : "The current status of the Elasticsearch domain's service software.

@returns Returns a reference to this object so that method calls can be chained together.

@serviceSoftwareOptions The current status of the Elasticsearch domain's service software.

return The current status of the Elasticsearch domain's service software.

'setterModel' : {
  "variableDeclarationType" : "ServiceSoftwareOptions",

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "SnapshotOptions",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "SnapshotOptions",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "SnapshotOptions",
"setterDocumentation": "<p>Specifies the status of the <code>SnapshotOptions</code></p>
@param snapshotOptions Specifies the status of the <code>SnapshotOptions</code>",
"setterMethodName": "setSnapshotOptions",
"setterModel": {
  "variableDeclarationType": "SnapshotOptions",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptions",
  "documentation": null,
  "simpleType": "SnapshotOptions",
  "variableSetterType": "SnapshotOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "SnapshotOptions",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptions",
  "documentation": "<p>Specifies the status of the <code>SnapshotOptions</code></p>",
  "simpleType": "SnapshotOptions",
  "variableSetterType": "SnapshotOptions"
},
"xmlNameSpaceUri": null
"UpgradeProcessing" : {
  "beanStyleGetterMethodName" : "getUpgradeProcessing",
  "beanStyleSetterMethodName" : "setUpgradeProcessing",
  "c2jName" : "UpgradeProcessing",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active."
}

This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #upgradeProcessing(Boolean)}. Returns a reference to this object so that method calls can be chained together.

When the Consumer completes, the result is passed to #upgradeProcessing(Boolean).

@see #upgradeProcessing(Boolean)

"deprecated" : false,

"documentation" : "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active."

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "upgradeProcessing",

"fluentSetterDocumentation" : "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active."

@see #upgradeProcessing(Boolean)

"getterDocumentation" : "The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active."

"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeProcessing"
}
"marshallLocationName" : "UpgradeProcessing",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeProcessing",
"uri" : false,
},
idempotencyToken" : false,
isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "UpgradeProcessing",
"setterDocumentation" : "\n\nThe status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.
\n@param upgradeProcessing The status of an Elasticsearch domain version upgrade.
\n<code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.,",
"setterMethodName" : "setUpgradeProcessing",
"setterModel" : {
"variableDeclarationType" : "Boolean",
"variableName" : "upgradeProcessing",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Boolean",
"variableName" : "upgradeProcessing",
"variableType" : "Boolean",
"documentation" : "\nThe status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.
\n"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"VPCOptions" : {
"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCDerivedInfo",
"defaultConsumerFluentSetterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. This is a convenience that creates an instance of the <code>@link VPCDerivedInfo.Builder</code> avoiding the need to create one manually via <code>@link VPCDerivedInfo#builder()</code>. When the <code>@link Consumer</code> completes, <code>@link VPCDerivedInfo.Builder#build()</code> is called immediately and its result is passed to <code>@link VPCOptions(VPCDerivedInfo)</code>.<br/>
@param vpcOptions a consumer that will call methods on <code>@link VPCDerivedInfo.Builder</code><br/>
@return Returns a reference to this object so that method calls can be chained together.<br/>
@see #vpcOptions(VPCDerivedInfo)",
"deprecated" : false,
"documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.<br/>
@code VPCOptions<br/>
@eventHeader : false,
@eventPayload : false,
@fluentEnumGetterMethodName : null,
@fluentEnumSetterMethodName : null,
@fluentGetterMethodName : "vpcOptions",
@fluentSetterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.<br/>
@code VPCOptions<br/>
@return The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.<br/>
@returns Returns a reference to this object so that method calls can be chained together.",
@getterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.<br/>
@return Returns a reference to this object so that method calls can be chained together.",
@getterModel" : {
@returnType" : "VPCDerivedInfo",
@documentation" : null
},
http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCOptions",}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCOptions",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"setterDocumentation" : 
<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>
@param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>,
"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfo",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfo",
  "documentation" : 
<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.</p>,
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"xmlNameSpaceUri" : null
}
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainId",
  "beanStyleSetterMethodName" : "setDomainId",
  "c2jName" : "DomainId",
}
"defaultConsumerFluentSetterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>

When the Consumer completes, the String.Builder#build() is called immediately and its result is passed to String.Builder#domainId(String).

@see #domainId(String)",
"deprecated" : false,
"documentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainId",
"fluentSetterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>

@see #domainId(String)",
"fluentSetterMethodName" : "domainId",
"getterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>

@see #domainId(String)",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "DomainId",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "DomainId",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainId",
"setterDocumentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
@param domainId The unique identifier for the specified Elasticsearch domain.",
"setterMethodName" : "setDomainId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainId",
  "variableType" : "String",
  "documentation" : "<p>The unique identifier for the specified Elasticsearch domain.</p>
"simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>

This is a convenience that creates an instance of the [ @link String.Builder ] avoiding the need to create one manually via [ @link String.Builder#build() ].

When the [ @link Consumer ] completes, [ @link String.Builder#build() ] is called immediately and its result is passed to [ @link DomainName(String) ].

@see #domainName(String)",
  "deprecated" : false,
  "documentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>

 enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the
domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<p>@param domainName The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<br /></p>@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<br /></p>

"getterModel" : {
   "returnType" : "String",
   "documentation" : null
},

"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "DomainName",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "DomainName",
   "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<br /></p>

"setterMethodName" : "setDomainName",
"setterModel" : {"param domainName The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<br />

"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<br />

"getterModel" : {
   "returnType" : "String",
   "documentation" : null
},

"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "DomainName",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "DomainName",
   "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<br />

"setterMethodName" : "setDomainName",
"setterModel" : {"param domainName The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<br />

"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The name of an Elasticsearch domain. Domain names are unique across the domains owned by an account within an AWS region. Domain names start with a letter or number and can contain the following characters: a-z (lowercase), 0-9, and - (hyphen).<br />

"getterModel" : {
   "returnType" : "String",
   "documentation" : null
},

"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "DomainName",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "DomainName",
   "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getArn",
"beanStyleSetterMethodName" : "setArn",
"c2jName" : "ARN",
"c2jShape" : "ARN",

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #arn(String)].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #arn(String)].

@deprecated : false,
,"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",

@deprecated : false,
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getCreated",
  "beanStyleSetterMethodName" : "setCreated",
  "c2jName" : "Created",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.\nThis is a convenience that creates an instance of the [@link Boolean.Builder] avoiding the need to create one manually via {@link Boolean.Builder}.\nWhen the [@link Consumer] completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to [@link #created(Boolean)].\n@param created The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.\n\n@deprecated false,
  "documentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.\n\n@enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "created",
  "fluentSetterDocumentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #created(Boolean)",
  "deprecated" : false,
  "documentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.\n\n@enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "created",
  "fluentSetterDocumentation" : "The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "created",
"getterDocumentation" : 
"<p>The domain creation status. &lt;code&gt;True&lt;/code&gt; if the creation of an Elasticsearch domain is complete. &lt;code&gt;False&lt;/code&gt; if domain creation is still in progress.&lt;/p&gt;

@return The domain creation status. &lt;code&gt;True&lt;/code&gt; if the creation of an Elasticsearch domain is complete. &lt;code&gt;False&lt;/code&gt; if domain creation is still in progress.

"getterModel" : {
   "returnType" : "Boolean",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "Created",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "Created",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Created",
"setterDocumentation" : 
"<p>The domain creation status. &lt;code&gt;True&lt;/code&gt; if the creation of an Elasticsearch domain is complete. &lt;code&gt;False&lt;/code&gt; if domain creation is still in progress.&lt;/p&gt;

@param created The domain creation status. &lt;code&gt;True&lt;/code&gt; if the creation of an Elasticsearch domain is complete. &lt;code&gt;False&lt;/code&gt; if domain creation is still in progress.

"setterMethodName" : "setCreated",
"setterModel" : {
   "variableDeclarationType" : "Boolean",
   "variableName" : "created",
   "variableType" : "Boolean",
   "documentation" : null,
   "simpleType" : "Boolean",
   "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "created",
  "variableType" : "Boolean",
  "documentation" : "<p>The domain creation status. <code>True</code> if the creation of an Elasticsearch domain is complete. <code>False</code> if domain creation is still in progress.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getDeleted",
"beanStyleSetterMethodName" : "setDeleted",
"c2jName" : "Deleted",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>This is a convenience that creates an instance of the {<link Boolean.Builder> avoiding the need to create one manually via {<link Boolean#builder()}. When the {<link Consumer> completes, {<link Boolean.Builder#build()}} is called immediately and its result is passed to {<link #deleted(Boolean)}.

@param deleted a consumer that will call methods on {<link Boolean.Builder>} @return Returns a reference to this object so that method calls can be chained together.
@see #deleted(Boolean)",
  "deprecated" : false,
  "documentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "deleted",
  "fluentSetterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>@return Returns a reference to this object so that method calls can be chained together.
";
  "fluentSetterMethodName" : "deleted",
  "getterDocumentation" : "<p>The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.</p>
	@return The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
	@return The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.

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"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Deleted",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Deleted",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Deleted",
"setterDocumentation" : "The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned."
@param deleted
The domain deletion status. <code>True</code> if a delete request has been received for the domain but resource cleanup is still in progress. <code>False</code> if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.
"setterMethodName" : "setDeleted",
"setterModel" : {
"variableDeclarationType" : "Boolean",
"variableName" : "deleted",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Boolean"
"variableName" : "deleted",
"variableType" : "Boolean",
"documentation" : "&lt;p&gt;The domain deletion status. &lt;code&gt;True&lt;/code&gt; if a delete request has been received for the domain but resource cleanup is still in progress. &lt;code&gt;False&lt;/code&gt; if the domain has not been deleted. Once domain deletion is complete, the status of the domain is no longer returned.&lt;/p&gt;",
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getEndpoint",
"beanStyleSetterMethodName" : "setEndpoint",
"c2jName" : "Endpoint",
"c2jShape" : "ServiceUrl",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The Elasticsearch domain endpoint that you use to submit index and search requests.&lt;/p&gt;

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #endpoint(String)}.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)"
,"deprecated" : false,
"documentation" : "&lt;p&gt;The Elasticsearch domain endpoint that you use to submit index and search requests.&lt;/p&gt;",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoint",
"fluentSetterDocumentation" : "&lt;p&gt;The Elasticsearch domain endpoint that you use to submit index and search requests.&lt;/p&gt;

When the {@link Client} completes, {@link #build()} is called immediately and its result is passed to {#endpoint(String)}.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)"
,"deprecated" : false,
"documentation" : "&lt;p&gt;The Elasticsearch domain endpoint that you use to submit index and search requests.&lt;/p&gt;

When the {@link Client} completes, {@link #build()} is called immediately and its result is passed to {#endpoint(String)}.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)"
,"deprecated" : false,
"documentation" : "&lt;p&gt;The Elasticsearch domain endpoint that you use to submit index and search requests.&lt;/p&gt;

When the {@link Client} completes, {#endpoint(String)} is called immediately and its result is passed to {#endpoint(String)}.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)"
,"deprecated" : false,
"documentation" : "&lt;p&gt;The Elasticsearch domain endpoint that you use to submit index and search requests.&lt;/p&gt;

When the {@link Client} completes, {#endpoint(String)} is called immediately and its result is passed to {#endpoint(String)}.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)"
,"deprecated" : false,
"documentation" : "&lt;p&gt;The Elasticsearch domain endpoint that you use to submit index and search requests.&lt;/p&gt;

When the {@link Client} completes, {#endpoint(String)} is called immediately and its result is passed to {#endpoint(String)}.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)"
,"deprecated" : false,
"documentation" : "&lt;p&gt;The Elasticsearch domain endpoint that you use to submit index and search requests.&lt;/p&gt;

When the {@link Client} completes, {#endpoint(String)} is called immediately and its result is passed to {#endpoint(String)}.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)"
,"deprecated" : false,
"documentation" : "&lt;p&gt;The Elasticsearch domain endpoint that you use to submit index and search requests.&lt;/p&gt;

When the {@link Client} completes, {#endpoint(String)} is called immediately and its result is passed to {#endpoint(String)}.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)"
,"deprecated" : false,
"documentation" : "&lt;p&gt;The Elasticsearch domain endpoint that you use to submit index and search requests.&lt;/p&gt;

When the {@link Client} completes, {#endpoint(String)} is called immediately and its result is passed to {#endpoint(String)}.

@deprecated

@return Returns a reference to this object so that method calls can be chained together.
@see #endpoint(String)"
,"deprecated" : false,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Endpoint",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Endpoint",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Endpoint",
"setterDocumentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>\n@param endpoint The Elasticsearch domain endpoint that you use to submit index and search requests.\n",
"setterMethodName" : "setEndpoint",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoint",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "endpoint",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch domain endpoint that you use to submit index and search requests.</p>\n",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getEndpoints",
"beanStyleSetterMethodName" : "setEndpoints",
"c2jName" : "Endpoints",
"c2jShape" : "EndpointsMap",
"defaultConsumerFluentSetterDocumentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>\'vpc\',\'vpc-endpoint-h2dsd34efgyhertguk5gt6j2fob4.us-east-1.es.amazonaws.com\'\</code></p>\n"This is a convenience that creates an
instance of the \{@link Map<String,String>.Builder\} avoiding the need to create one manually via \{@link Map<String,String>#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link Map<String,String>.Builder#build()\} is called immediately and its result is passed to \{@link @param endpoints(Map<String,String>)\}.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #endpoints(Map<String,String>)","
"deprecated" : false,
"documentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "endpoints",
"fluentSetterDocumentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>

"getterDocumentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>

Attempts to modify the collection returned by this method will result in a UnsupportedOperationException.

@return Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.",

"getterModel" : {
"returnType" : "java.util.Map<String,String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Endpoints",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Endpoints",
"uri" : false
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}.\n\n@param key a consumer that will call methods on { @link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "key",
    "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}.\n\n@param key a consumer that will call methods on { @link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
    "fluentSetterMethodName" : "key",
    "getterDocumentation" : "Returns the value of the Key property for this object.\n\n@return The value of the Key property for this object.
\n@getters"
  ,
  "getterModel" : { 
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.
@param key The new value for the Key property for this object.",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "ServiceUrl",
  "defaultValueFluentSetterDocumentation" : "Sets the value of the Value property for this object.
This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via
When the `@link Consumer` completes, `@link String.Builder#build()` is called immediately and its result is passed to `@link value(String)` a consumer that will call methods on `@link String.Builder`.

**@return** Returns a reference to this object so that method calls can be chained together.

```java
@see #value(String)
```

```java
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.

"getterModel" : {
 "returnType" : "String",
 "documentation" : null
}

"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flat" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "value",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "value",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new
value for the Value property for this object.

setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "Endpoints",
"setterDocumentation" : "<p>Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrgruk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.</p>
@param endpoints Map containing the Elasticsearch domain endpoints used to submit index and search requests. Example <code>key, value</code>: <code>'vpc','vpc-endpoint-h2dsd34efgyghrgruk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

setterMethodName" : "setEndpoints",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "endpoints",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
requests. Example `<code>key, value</code>`: `<code>'vpc', 'vpc-endpoint-h2dsd34efgyghrtguk5gt6j2foh4.us-east-1.es.amazonaws.com'</code>.

```
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>
}
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getProcessing",
"beanStyleSetterMethodName" : "setProcessing",
"c2jName" : "Processing",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>

This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean.builder()}. When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link processing(Boolean)}. @param processing a consumer that will call methods on { @link Boolean.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #processing(Boolean)",
"deprecated" : false,
"documentation" : "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "processing",
"fluentSetterDocumentation" : "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>

The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

"getterDocumentation" : "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.

"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Processing",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Processing",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Processing",
"setterDocumentation" : "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>
@param processing The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.",
"setterMethodName" : "setProcessing",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "processing",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "processing",
  "variableType" : "Boolean",
  "documentation" : "<p>The status of the Elasticsearch domain configuration. <code>True</code> if Amazon Elasticsearch Service is processing configuration changes. <code>False</code> if the configuration is active.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"getterMethodName" : "getUpgradeProcessing",
"getterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "upgradeProcessing",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.

This is a convenience that creates an instance of the [link: Boolean.Builder] avoiding the need to create one manually via [link: Boolean#builder()]. When the [link: Consumer] completes, [link: Boolean.Builder#build()] is called immediately and its result is passed to [link: #upgradeProcessing(Boolean)].

When the [link: Consumer] completes, [link: Boolean.Builder#build()] is called immediately and its result is passed to [link: #upgradeProcessing(Boolean)].

@deprecated
@see [link: #upgradeProcessing(Boolean)]

"c2jName" : "UpgradeProcessing",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active. </p>

"deprecated" : false,
"documentation" : "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active. </p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeProcessing",
"fluentSetterMethodName" : "upgradeProcessing",
"getterDocumentation" : "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active. </p>

"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeProcessing",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpgradeProcessing",
  "uri" : false
"setterDocumentation" : "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.</p>\n@param upgradeProcessing The status of an Elasticsearch domain version upgrade.
<code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. <code>False</code> if the configuration is active.
"setterMethodName" : "setUpgradeProcessing",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "upgradeProcessing",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "upgradeProcessing",
  "variableType" : "Boolean",
  "documentation" : "<p>The status of an Elasticsearch domain version upgrade. <code>True</code> if Amazon Elasticsearch Service is undergoing a version upgrade. \<code>False</code> if the configuration is active.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNamespaceUri" : null
},
"beanStyleGetterMethodName" : "getElasticsearchVersion",
"beanStyleSetterMethodName" : "setElasticsearchVersion",
"c2jName" : "ElasticsearchVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersion property for this object.\n\nThis is a convenience that creates an instance of the {\link String.Builder} avoiding the need to create one manually via {\link String#builder()}.\nWhen the {\link Consumer} completes, {\link String.Builder#build()}) is called immediately and its result is passed to {\link ElasticsearchVersion(String)}.\n\n@param elasticsearchVersion a consumer that will call methods on {\link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n\nsee
#elasticsearchVersion(String)

- "deprecated": false,
- "documentation": "",
- "enumType": null,
- "eventHeader": false,
- "eventPayload": false,
- "fluentEnumGetterMethodName": null,
- "fluentEnumSetterMethodName": null,
- "fluentGetterMethodName": "elasticsearchVersion",
- "fluentSetterDocumentation": "Sets the value of the ElasticsearchVersion property for this object.

@param elasticsearchVersion The new value for the ElasticsearchVersion property for this object.
@return Returns a reference to this object so that method calls can be chained together."

- "fluentSetterMethodName": "elasticsearchVersion",
- "getterDocumentation": "Returns the value of the ElasticsearchVersion property for this object.

@return The value of the ElasticsearchVersion property for this object."

- "getterModel": {
  "returnType": "String",
  "documentation": null
},
- "http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "ElasticsearchVersion",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "ElasticsearchVersion",
  "uri": false
},
- "idempotencyToken": false,
- "isBinary": false,
- "jsonValue": false,
- "list": false,
- "listModel": null,
- "map": false,
- "mapModel": null,
- "marshallingType": "STRING",
- "name": "ElasticsearchVersion",
- "setterDocumentation": "Sets the value of the ElasticsearchVersion property for this object.

@param elasticsearchVersion The new value for the ElasticsearchVersion property for this object.
@return Returns a reference to this object so that method calls can be chained together."

- "setterMethodName": "setElasticsearchVersion",
- "setterModel": {
"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variable SetterType" : "String"
}
,"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "elasticsearchVersion",
 "variableType" : "String",
 "documentation" : ",",
 "simpleType" : "String",
 "variable SetterType" : "String"
}
,"xmlNameSpaceUri" : null
},
{ }
"beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
"beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
"c2jName" : "ElasticsearchClusterConfig",
"c2jShape" : "ElasticsearchClusterClusterConfig",
"defaultConsumerFluentSetterDocumentation" : "<p>The type and number of instances in the domain cluster.</p>
This is a convenience that creates an instance of the { @link ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via { @link ElasticsearchClusterConfig#builder()}. When the { @link
Consumer} completes, { @link ElasticsearchClusterConfig.Builder#build()} is called immediately and its result is passed to { @link #elasticsearchClusterConfig(ElasticsearchClusterClusterConfig)}.

@see #elasticsearchClusterConfig(ElasticsearchClusterClusterConfig)

@deprecated false,
"documentation" : "<p>The type and number of instances in the domain cluster.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchClusterConfig",
"fluentSetterDocumentation" : "<p>The type and number of instances in the domain cluster.</p>
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"getterDocumentation" : "<p>The type and number of instances in the domain cluster.</p>
"getterModel" : {
 "returnType" : "ElasticsearchClusterClusterConfig",
 "documentation" : null
"
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchClusterConfig",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchClusterConfig",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"setterDocumentation" : "<p>The type and number of instances in the domain cluster.</p>
@param
elasticsearchClusterConfig The type and number of instances in the domain cluster."
,"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : "<p>The type and number of instances in the domain cluster.</p>
","simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information. This is a convenience that creates an instance of the <code>EBSOptions</code> without the need to create one manually. When the <code>Consumer</code> completes, the [consumer](#) is called immediately and its result is passed to the <code>EBSOptions.EBSOptions</code> method. The <code>fluentSetter</code> is called on the [builder](#builder) and its result is passed to the <code>Consumer</code>

```java
@see #ebsOptions(EBSOptions)
```

### Parameters

- **ebsOptions**: a consumer that will call methods on the [builder](#builder)

### Return Value

Returns a reference to this object so that method calls can be chained together.

```java
@returns Returns a reference to this object so that method calls can be chained together.
```

### Deprecated

false

### Documentation

The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.

```java
@documentation The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.
```

### Getter

```java
@getter The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.

```java
@returns The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.
```

### Getter Model

```java
@getterModel {
"returnType": "EBSOptions",
"documentation": null
}
```

### HTTP

```java
@http {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
```

### Default Consumer Fluent Setter Documentation

This is a convenience that creates an instance of the <code>EBSOptions</code> without the need to create one manually. When the <code>Consumer</code> completes, the [consumer](#) is called immediately and its result is passed to the <code>EBSOptions.EBSOptions</code> method. The <code>fluentSetter</code> is called on the [builder](#builder) and its result is passed to the <code>Consumer</code>

```java
@see #ebsOptions(EBSOptions)
```

### Deprecated

false

### Documentation

The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.

```java
@documentation The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.
```

### Getter

```java
@getter The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.

```java
@returns The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.
```

### Getter Model

```java
@getterModel {
"returnType": "EBSOptions",
"documentation": null
}
```

### HTTP

```java
@http {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
```

### Default Consumer Fluent Setter Documentation

This is a convenience that creates an instance of the <code>EBSOptions</code> without the need to create one manually. When the <code>Consumer</code> completes, the [consumer](#) is called immediately and its result is passed to the <code>EBSOptions.EBSOptions</code> method. The <code>fluentSetter</code> is called on the [builder](#builder) and its result is passed to the <code>Consumer</code>

```java
@see #ebsOptions(EBSOptions)
```

### Deprecated

false

### Documentation

The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.

```java
@documentation The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.
```

### Getter

```java
@getter The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.

```java
@returns The <code>EBSOptions</code> for the specified domain. See [Configuring EBS-based Storage](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-ebs) for more information.
```

### Getter Model

```java
@getterModel {
"returnType": "EBSOptions",
"documentation": null
}
```

### HTTP

```java
@http {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
```

```java
```
"beanStyleGetterMethodName" : "getAccessPolicies",
"beanStyleSetterMethodName" : "setAccessPolicies",
"c2jName" : "AccessPolicies",
"c2jShape" : "PolicyDocument",
"defaultConsumerFluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link AccessPolicies(String)}.<p>
@param accessPolicies a consumer that will call methods on { @link String.Builder} returns a reference to this object so that method calls can be chained together.</p>@see AccessPolicies(String)",
"deprecated" : false,
"documentation" : "<p> IAM access policy as a JSON-formatted string.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string. returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p> IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AccessPolicies",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AccessPolicies",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
IAM access policy as a JSON-formatted string.

```java
public void setAccessPolicies(String accessPolicies) {
    this.accessPolicies = accessPolicies;
}
```

Specifies the status of the `SnapshotOptions`.

```java
public void snapshotOptions(SnapshotOptions options)
```

This is a convenience that creates an instance of the `SnapshotOptions` avoiding the need to create one manually via the `SnapshotOptions.builder()` method. When the `@link SnapshotOptions.Builder` completes, the `@link SnapshotOptions#build()` method is called immediately and its result is passed to the `@link SnapshotOptions(SnapshotOptions)` constructor. A reference to this object is returned so that method calls can be chained together.

```java
public SnapshotOptions getSnapshotOptions()
```

```java
public void setSnapshotOptions(SnapshotOptions options)
```
"fluentSetterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p><p>@param snapshotOptions Specifies the status of the <code>SnapshotOptions</code></p><p>@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "snapshotOptions",
"getterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p><p>@return Specifies the status of the <code>SnapshotOptions</code>
@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
"returnType" : "SnapshotOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SnapshotOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SnapshotOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"setterDocumentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p><p>@param snapshotOptions Specifies the status of the <code>SnapshotOptions</code></p><p>@return Specifies the status of the <code>SnapshotOptions</code>
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodname" : "setSnapshotOptions",
"setterModel" : {
"variableDeclarationType" : "SnapshotOptions",
"variableName" : "snapshotOptions",
"variableType" : "SnapshotOptions",
"documentation" : null,
"simpleType" : "SnapshotOptions",
"variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : "<p>Specifies the status of the <code>SnapshotOptions</code></p>",
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCDerivedInfo",
"defaultConsumerFluentSetterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. \n\nThis is a convenience that creates an instance of the [\@link VPCDerivedInfo.Builder] avoiding the need to create one manually via [\@link VPCDerivedInfo.Builder#builder()]. When the [\@link Consumer] completes, [\@link VPCDerivedInfo.Builder#build()] is called immediately and its result is passed to [\@link VpcOptions(VPCDerivedInfo)]. \n\n@see #vpcOptions(VPCDerivedInfo)
\n@deprecated"
},
"documentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. \n\nThis is a convenience that creates an instance of the [\@link VPCDerivedInfo.Builder] avoiding the need to create one manually via [\@link VPCDerivedInfo.Builder#builder()]. When the [\@link Consumer] completes, [\@link VPCDerivedInfo.Builder#build()] is called immediately and its result is passed to [\@link VpcOptions(VPCDerivedInfo)]. \n\n@see #vpcOptions(VPCDerivedInfo)
\n@deprecated"
},
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. \n\n@see #vpcOptions(VPCDerivedInfo)
\n@deprecated"
},
"getterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>. \n\n@see #vpcOptions(VPCDerivedInfo)
\n@deprecated"
},
"getterModel" : "\n\n@see #vpcOptions(VPCDerivedInfo)\n\n@deprecated"
}
"returnType" : "VPCDerivedInfo",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "VPCOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "VPCOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"setterDocumentation" : "<p>The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.<br />

@<param vpcOptions The <code>VPCOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",

"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfo",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "vpcOptions",
  "variableType" : "VPCDerivedInfo",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"}
"variableType" : "VPCDerivedInfo",
"documentation" : "The <code>VPCOptions</code> for the specified domain. For more information, see
<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html" target="_blank">VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",
"simpleType" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getCognitoOptions",
"beanStyleSetterMethodName" : "setCognitoOptions",
"c2jName" : "CognitoOptions",
"c2jShape" : "CognitoOptions",
"defaultConsumerFluentSetterDocumentation" : "The <code>CognitoOptions</code> for the specified
domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. This is a convenience that creates an instance of the
{@link CognitoOptions.Builder} avoiding the need to create one manually via
{@link CognitoOptions#builder()}. When the consumer completes,
{@link CognitoOptions.Builder#build()} is called immediately and its result is passed to
{@link #cognitoOptions(CognitoOptions)}. Returns a reference to this object so that method calls can be chained
together.
@see #cognitoOptions(CognitoOptions)",
"deprecated" : false,
"documentation" : "The <code>CognitoOptions</code> for the specified domain. For more information, see
"enumName" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cognitoOptions",
"fluentSetterDocumentation" : "The <code>CognitoOptions</code> for the specified domain. For more
@return The <code>CognitoOptions</code> for the specified domain. For more information, see
@see #cognitoOptions(CognitoOptions)",
"getterDocumentation" : "The <code>CognitoOptions</code> for the specified domain. For more
@return The <code>CognitoOptions</code> for the specified domain. For more information, see
"getterModel" : {"returnType" : "CognitoOptions"}
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "CognitoOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "CognitoOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"setterDocumentation" : "The <code>CognitoOptions</code> for the specified domain. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
"documentation": "The <code>CognitoOptions</code> for the specified domain. For more information, see Amazon Cognito Authentication for Kibana.",

"simpleType": "CognitoOptions",
"variableSetterType": "CognitoOptions"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getEncryptionAtRestOptions",
"beanStyleSetterMethodName": "setEncryptionAtRestOptions",
"c2jName": "EncryptionAtRestOptions",
"c2jShape": "EncryptionAtRestOptions",
"defaultConsumerFluentSetterDocumentation": "Specifies the status of the <code>EncryptionAtRestOptions</code>. This is a convenience that creates an instance of the <p>EncryptionAtRestOptions.Builder> avoiding the need to create one manually via <code>EncryptionAtRestOptions#builder()</code>. When the Consumer completes, EncryptionAtRestOptions.Builder#build() is called immediately and its result is passed to EncryptionAtRestOptions a consumer that will call methods on EncryptionAtRestOptions.Builder\n
@return Returns a reference to this object so that method calls can be chained together.\n
@see #encryptionAtRestOptions(EncryptionAtRestOptions)",
"deprecated": false,
"documentation": "Specifies the status of the <code>EncryptionAtRestOptions</code>.",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "encryptionAtRestOptions",
"fluentSetterDocumentation": "Specifies the status of the <code>EncryptionAtRestOptions</code>.\n
@see #encryptionAtRestOptions(EncryptionAtRestOptions)"
,"param encryptionAtRestOptions Specifies the status of the <code>EncryptionAtRestOptions</code>. Returns a reference to this object so that method calls can be chained together.\n
"getterDocumentation": "Specifies the status of the <code>EncryptionAtRestOptions</code>.",
"getterModel": {
"returnType": "EncryptionAtRestOptions",
"documentation": null
}
,"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
Specifies the status of the <code>EncryptionAtRestOptions</code>. This is a convenience that creates an instance of the <code>NodeToNodeEncryptionOptions.Builder</code> avoiding the need to create one manually via
NodeToNodeEncryptionOptions#builder()

When the \{@link Consumer\} completes, \{@link NodeToNodeEncryptionOptions.Builder#build()\} is called immediately and its result is passed to \{@link NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)\}. \n@returns Returns a reference to this object so that method calls can be chained together.

\n@see NodeToNodeEncryptionOptions(NodeToNodeEncryptionOptions)

"deprecated" : false,
"documentation" : 
"<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nodeToNodeEncryptionOptions",
"fluentSetterDocumentation" : 
"<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>

@returns Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.\n
\n@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "nodeToNodeEncryptionOptions",
"getterDocumentation" : 
"<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.</p>

@returns Specifies the status of the <code>NodeToNodeEncryptionOptions</code>.\n
@returns Returns a reference to this object so that method calls can be chained together.

"getterModel" : {
  "returnType" : "NodeToNodeEncryptionOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "NodeToNodeEncryptionOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "NodeToNodeEncryptionOptions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "NodeToNodeEncryptionOptions",
"setterDocumentation" : "<p>Specifies the status of the
<code>NodeToNodeEncryptionOptions</code></p>
@param nodeToNodeEncryptionOptions Specifies the status of the
<code>NodeToNodeEncryptionOptions</code>.",
"setterMethodName" : "setNodeToNodeEncryptionOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : "<p>Specifies the status of the <code>NodeToNodeEncryptionOptions</code></p>
@param advancedOptions a consumer that will call methods on <code>Map<String,String>.Builder</code> immediately and its result is passed to <code>#advancedOptions(Map<String,String>)</code>.
@return Returns a reference to this object so that method calls can be chained together.
@see #advancedOptions(Map<String,String>)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the status of the <code>AdvancedOptions</code></p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "advancedOptions",
  "fluentSetterDocumentation" : "<p>Specifies the status of the <code>AdvancedOptions</code></p>"},
"beanStyleGetterMethodName" : "getAdvancedOptions",
"beanStyleSetterMethodName" : "setAdvancedOptions",
"c2jName" : "AdvancedOptions",
"c2jShape" : "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the
<code>AdvancedOptions</code></p>When the { @link Map<String,String>.Builder} is called immediately and its result is passed to { @link Map<String,String>.Builder#build()} a consumer that will call methods on { @link Map<String,String>.Builder} a reference to this object so that method calls can be chained together.
@see #advancedOptions(Map<String,String>)",
"deprecated" : false,
advancedOptions Specifies the status of the <code>AdvancedOptions</code>

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "advancedOptions",

"getterDocumentation" : "Specifies the status of the <code>AdvancedOptions</code>

Returns a reference to this object so that method calls can be chained together.
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

Specifies the status of the <code>AdvancedOptions</code>

"getterModel" : {
  "returnType" : "java.util.Map<String,String>",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AdvancedOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AdvancedOptions",
  "uri" : false
},

"idempotencyToken" : false,

"java" : {
  "isBinary" : false,
  "jsonValue" : false,
  "isPayload" : false,
  "list" : false,
  "map" : true,
  "mapModel" : {
    "implType" : "java.util.HashMap",
    "interfaceType" : "java.util.Map",
    "keyLocationName" : "key",
    "keyModel" : {
      "beanStyleGetterMethodName" : "getKey",
      "beanStyleSetterMethodName" : "setKey",
      "c2jName" : "key",
      "c2jShape" : "String",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via
{ @link String.Builder}.
When the { @link Consumer} completes, { @link String.Builder} is called immediately and its result is passed to
{ @link String.Builder}.

@see #key(String)
@deprecated"
  "deprecated" : false,
  "jsonValue" : false,
  "list" : false,
  "map" : true,
  "mapModel" : {
    "implType" : "java.util.HashMap",
    "interfaceType" : "java.util.Map",
    "keyLocationName" : "key",
    "keyModel" : {
      "beanStyleGetterMethodName" : "getKey",
      "beanStyleSetterMethodName" : "setKey",
      "c2jName" : "key",
      "c2jShape" : "String",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via
{ @link String.Builder}.
When the { @link Consumer} completes, { @link String.Builder} is called immediately and its result is passed to
{ @link String.Builder}.

@see #key(String)
@deprecated"
  "deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterMethodName" : "key",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

@returns The new value for the Key property for this object.

@returns Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.

@returns The value of the Key property for this object.",
"getterModel" : {
   "returnType" : "String",
   "documentation" : null

},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "key",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "key",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.

@returns The new value for the Key property for this object.",
"setterMethodId" : "setKey",
"setterMethodId" : "setKey",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "key",}
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
}
,"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": "",
"simpleType": "String",
"variableSetterType": "String"
}

"xmlNameSpaceUri": null
}
,"valueLocationName": "value",
"valueModel": {
"beanStyleGetterMethodName": "getValue",
"beanStyleSetterMethodName": "setValue",
"c2jName": "value",
"c2jShape": "String",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the @link String.Builder avoiding the need to create one
manually via @link String#builder(). When the @link Consumer completes, @link String.Builder#build() is called
immediately and its result is passed to @link #value(String).

@param value a consumer that will call methods on
@link String.Builder
@return Returns a reference to this object so that method calls can be chained
together.
@see #value(String)"
,"deprecated": false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "value",
"fluentSetterDocumentation": "Sets the value of the Value property for this object.

@see #value(String)
@param value The new value for the Value property for this object.
@return Returns a reference to this object so that method calls can be chained
together.
"fluentSetterMethodName": "value",
"getterDocumentation": "Returns the value of the Value property for this object.

@see #value
@return The value of the Value property for this object.
"getterModel": {
"returnType": "String",
"documentation": null
}
,"http": {

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"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"newValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@\n
@param value The new value for the Value property for this object.\n",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",

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"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"setterDocumentation" : "<p>Specifies the status of the <code>AdvancedOptions</code></p>
@param
advancedOptions Specifies the status of the <code>AdvancedOptions</code></code>
",
"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
"variableDeclarationType" : "java.util.Map<String,String>",
"variableName" : "advancedOptions",
"variableType" : "java.util.Map<String,String>",
"documentation" : null,
"simpleType" : "Map<String,String>",
"variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.Map<String,String>",
"variableName" : "advancedOptions",
"variableType" : "java.util.Map<String,String>",
"documentation" : "<p>Specifies the status of the <code>AdvancedOptions</code></p>
@param
advancedOptions Specifies the status of the <code>AdvancedOptions</code></code>
",
"variableSetterType" : "java.util.Map<String,String>",
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
"beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
"c2jName" : "LogPublishingOptions",
"c2jShape" : "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Log publishing options for the given domain.</p>
This is a convenience that creates an instance of the {"/link Map<String,LogPublishingOption>,Builder} avoiding the need to create one manually via {"/link Map<String,LogPublishingOption>\#builder()}.\n\nWhen the {"/link Consumer} completes, {"/link Map<String,LogPublishingOption>.Builder\#build()} is called immediately and its result is passed to {"/link #logPublishingOptionsAsStrings(Map<String,LogPublishingOption>)}\n\n@link logPublishingOptions a consumer that will call methods on {"/link Map<String,LogPublishingOption>.Builder\n\n@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)}",
"deprecated" : false,
"documentation" : "<p>Log publishing options for the given domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "<p>Log publishing options for the given domain.</p>
\n@link logPublishingOptions a consumer that will call methods on {"/link Map<String,LogPublishingOption>.Builder\n\n@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)}
\n\n@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)"},
"deprecated" : false,
logPublishingOptions Log publishing options for the given domain.

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "logPublishingOptionsWithStrings",
"getterDocumentation" : "<p>Log publishing options for the given domain.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@returns Log publishing options for the given domain.

"getterModel" : {
"returnType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "LogPublishingOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LogPublishingOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
"implType" : "java.util.HashMap",
"interfaceType" : "java.util.Map",
"keyLocationName" : "key",
"keyModel" : {
"beanStyleGetterMethodName" : "getKeyAsString",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "key",
"c2jShape" : "LogType",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #keyAsString(String)}.

@returns Returns a reference to this object so that method calls can be chained together.

@see #key(String)",
"deprecated" : false,
"documentation" : "", "enumType" : "LogType", "eventHeader" : false, "eventPayload" : false, "fluentEnumGetterMethodName" : "key", "fluentEnumSetterMethodName" : "key", "fluentGetterMethodName" : "keyAsString", "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n@\nparam key The new value for the Key property for this object.\n@\nsee LogType\n@\nreturn Returns a reference to this object so that method calls can be chained together.\n@\nsee LogType",
"fluentSetterMethodName" : "key", "getterDocumentation" : "Returns the value of the Key property for this object.\nIf the service returns an enum value that is not available in the current SDK version, \n@\nlink #key will return \n@\nlink LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from \n@\nlink #keyAsString\n@\nreturn The value of the Key property for this object.\n@\nsee LogType",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
}, "http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "key",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "key",
 "uri" : false
}, "idempotencyToken" : false, "isBinary" : false, "jsonValue" : false, "list" : false, "listModel" : null, "map" : false, "mapModel" : null, "marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@\nparam key The new value for the Key property for this object.\n@\nsee LogType",
"setterMethodName" : "setKey",
"setterModel" : {"documentation" : "", "enumType" : "LogType", "eventHeader" : false, "eventPayload" : false, "fluentEnumGetterMethodName" : "key", "fluentEnumSetterMethodName" : "key", "fluentGetterMethodName" : "keyAsString", "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n@\nparam key The new value for the Key property for this object.\n@\nsee LogType\n@\nreturn Returns a reference to this object so that method calls can be chained together.\n@\nsee LogType",
"fluentSetterMethodName" : "key", "getterDocumentation" : "Returns the value of the Key property for this object.\nIf the service returns an enum value that is not available in the current SDK version, \n@\nlink #key will return \n@\nlink LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from \n@\nlink #keyAsString\n@\nreturn The value of the Key property for this object.\n@\nsee LogType",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
}, "http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "key",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "key",
 "uri" : false
}, "idempotencyToken" : false, "isBinary" : false, "jsonValue" : false, "list" : false, "listModel" : null, "map" : false, "mapModel" : null, "marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@\nparam key The new value for the Key property for this object.\n@\nsee LogType",
"setterMethodName" : "setKey",
"setterModel" : {
"documentation" : "", "enumType" : "LogType", "eventHeader" : false, "eventPayload" : false, "fluentEnumGetterMethodName" : "key", "fluentEnumSetterMethodName" : "key", "fluentGetterMethodName" : "keyAsString", "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n@\nparam key The new value for the Key property for this object.\n@\nsee LogType\n@\nreturn Returns a reference to this object so that method calls can be chained together.\n@\nsee LogType",
"fluentSetterMethodName" : "key", "getterDocumentation" : "Returns the value of the Key property for this object.\nIf the service returns an enum value that is not available in the current SDK version, \n@\nlink #key will return \n@\nlink LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from \n@\nlink #keyAsString\n@\nreturn The value of the Key property for this object.\n@\nsee LogType",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
}, "http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "key",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "key",
 "uri" : false
}, "idempotencyToken" : false, "isBinary" : false, "jsonValue" : false, "list" : false, "listModel" : null, "map" : false, "mapModel" : null, "marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@\nparam key The new value for the Key property for this object.\n@\nsee LogType",
"setterMethodName" : "setKey",
"setterModel" : {
"documentation" : "", "enumType" : "LogType", "eventHeader" : false, "eventPayload" : false, "fluentEnumGetterMethodName" : "key", "fluentEnumSetterMethodName" : "key", "fluentGetterMethodName" : "keyAsString", "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n@\nparam key The new value for the Key property for this object.\n@\nsee LogType\n@\nreturn Returns a reference to this object so that method calls can be chained together.\n@\nsee LogType",
"fluentSetterMethodName" : "key", "getterDocumentation" : "Returns the value of the Key property for this object.\nIf the service returns an enum value that is not available in the current SDK version, \n@\nlink #key will return \n@\nlink LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from \n@\nlink #keyAsString\n@\nreturn The value of the Key property for this object.\n@\nsee LogType",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
}, "http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "key",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "key",
 "uri" : false
}, "idempotencyToken" : false, "isBinary" : false, "jsonValue" : false, "list" : false, "listModel" : null, "map" : false, "mapModel" : null, "marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@\nparam key The new value for the Key property for this object.\n@\nsee LogType",
"setterMethodName" : "setKey",
"setterModel" : {
...
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "LogPublishingOption",
"defaultValueSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the { @link LogPublishingOption.Builder} avoiding the need to create one manually via { @link LogPublishingOption#builder()}. When the { @link Consumer} completes, { @link LogPublishingOption.Builder#build()} is called immediately and its result is passed to { @link #value(LogPublishingOption)}.

@see #value(LogPublishingOption)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

Returns a reference to this object so that method calls can be chained together.

@see #getValue(LogPublishingOption)",
"getterDocumentation" : "Returns the value of the Value property for this object.

The new value for the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
"returnType" : "LogPublishingOption",
"getterMethodName" : "getValue",
"getterParameterType" : "LogPublishingOption",
"getterParameterName" : "value",
"getterSetterMethodName" : "setValue",
"getterType" : null
},
"value" : {
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

The value of the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "Returns the value of the Value property for this object.

The value of the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
"returnType" : "LogPublishingOption",
"getterMethodName" : "getValue",
"getterParameterType" : "LogPublishingOption",
"getterParameterName" : "value",
"getterSetterMethodName" : "setValue",
"getterType" : null
}
"documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "value",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "value",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Value",
"setterDocumentation": "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object."
,"setterMethodName": "setValue",
"setterModel": {
  "variableDeclarationType": "LogPublishingOption",
  "variableName": "value",
  "variableType": "LogPublishingOption",
  "documentation": null,
  "simpleType": "LogPublishingOption",
  "variableSetterType": "LogPublishingOption"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "LogPublishingOption",
  "variableName": "value",
  "variableType": "LogPublishingOption",
  "documentation": "",
  "simpleType": "LogPublishingOption",
  "variableSetterType": "LogPublishingOption"
}.
"xmlNameSpaceUri" : null,
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String, LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"setterDocumentation" : "<p>Log publishing options for the given domain.</p>
@param logPublishingOptions Log publishing options for the given domain."
, "setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String, LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String, LogPublishingOption>",
  "documentation" : null,
  "simpleType" : "Map<String, LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String, LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String, LogPublishingOption>",
  "documentation" : "<p>Log publishing options for the given domain.</p>",
  "simpleType" : "Map<String, LogPublishingOption>"
},
"xmlnsNameSpaceUri" : null,
},
"beanStyleGetterMethodName" : "getServiceSoftwareOptions",
"beanStyleSetterMethodName" : "setServiceSoftwareOptions",
"c2jName" : "ServiceSoftwareOptions",
"c2jShape" : "ServiceSoftwareOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</p>

This is a convenience that creates an instance of the [ @link ServiceSoftwareOptions.Builder] avoiding the need to create one manually via [ @link ServiceSoftwareOptions#builder() ].

When the [ @link Consumer] completes, [ @link ServiceSoftwareOptions.Builder#build()] is called immediately and its result is passed to [ @link ServiceSoftwareOptions(ServiceSoftwareOptions)].

@see serviceSoftwareOptions(ServiceSoftwareOptions)",
"deprecated" : false,
"documentation" : "<p>The current status of the Elasticsearch domain's service software.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "serviceSoftwareOptions",
"fluentSetterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</p>
@param serviceSoftwareOptions The current status of the Elasticsearch domain's service software.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "serviceSoftwareOptions",
"getterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</p>
@return The current status of the Elasticsearch domain's service software.",
"getterModel" : {
"returnType" : "ServiceSoftwareOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ServiceSoftwareOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ServiceSoftwareOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"setterDocumentation" : "<p>The current status of the Elasticsearch domain's service software.</p>
@param serviceSoftwareOptions The current status of the Elasticsearch domain's service software.",
"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
"variableDeclarationType" : "ServiceSoftwareOptions",
"variableName" : "serviceSoftwareOptions",
"variableType" : "ServiceSoftwareOptions",
"documentation" : null,
"simpleType" : "ServiceSoftwareOptions",
"variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : "<p>The current status of the Elasticsearch domain's service software.</p>",
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainId", "DomainName", "ARN", "ElasticsearchClusterConfig" ],
"shapeName" : "ElasticsearchDomainStatus",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "ElasticsearchDomainStatus",
  "variableName" : "elasticsearchDomainStatus",
  "variableType" : "ElasticsearchDomainStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchDomainStatus",
  "variableSetterType" : "ElasticsearchDomainStatus"
},
"wrapper" : false
},
"ElasticsearchVersionStatus" : {
  "c2jName" : "ElasticsearchVersionStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Status of the Elasticsearch version options for the specified Elasticsearch domain.</p>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [
    {
        "beanStyleGetterMethodName": "getOptions",
        "beanStyleSetterMethodName": "setOptions",
        "c2jName": "Options",
        "c2jShape": "ElasticsearchVersionString",
        "defaultConsumerFluentSetterDocumentation": "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. </p>
This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #options(String)\}. A consumer that will call methods on \{@link String.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(String)"
    },
    "deprecated": false,
    "documentation": "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. </p>
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "options",
"fluentSetterDocumentation": "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. </p>
@param options Specifies the Elasticsearch version for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together."
    ,
    "fluentSetterMethodName": "options",
    "getterDocumentation": "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. </p>
"getterModel": {
    "returnType": "String",
    "documentation": null
},
"http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "Options",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "Options",
    "uri": false
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>
@param options Specifies the Elasticsearch version for the specified Elasticsearch domain.

setterMethodname" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "options",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "options",
  "variableType" : "String",
  "documentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>

This is a convenience that creates an instance of the {
  @link OptionStatus.Builder} avoiding the need to create one manually via {
  @link OptionStatus#builder()}. When the {
  @link Consumer} completes, {
  @link OptionStatus.Builder#build()} is called immediately and its result is passed to {
  @link #status(OptionStatus)}. When a consumer that will call methods on {
  @link OptionStatus.Builder}@return Returns a reference to this object so that method calls can be chained together. @see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : 
"<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
@<p>param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "status",
"getterDocumentation" : 
"<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
@return Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.
",
"getterModel" : {
 "returnType" : "OptionStatus",
 "documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "Status",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "Status",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : 
"<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
@<p>param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
",
"setterMethodName" : "setStatus",
"setterModel" : {
 "variableDeclarationType" : "OptionStatus",
 "variableName" : "status",
}
"variableType" : "OptionStatus",
"documentation" : null,
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "OptionStatus",
 "variableName" : "status",
 "variableType" : "OptionStatus",
 "documentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain. </p>",
 "simpleType" : "OptionStatus",
 "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
",
"membersAsMap" : {
 "Options" : {
 "beanStyleGetterMethodName" : "getOptions",
 "beanStyleSetterMethodName" : "setOptions",
 "c2jName" : "Options",
 "c2jShape" : "ElasticsearchVersionString",
 "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #options(String)}. @param options a consumer that will call methods on {@link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #options(String)",
 "deprecated" : false,
 "documentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. </p>",
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "options",
 "fluentSetterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. </p>
@param options Specifies the Elasticsearch version for the specified Elasticsearch domain.@return Returns a reference to this object so that method calls can be chained together.",
 "fluentSetterMethodName" : "options",
 "getterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain. </p>
@return Specifies the Elasticsearch version for the specified Elasticsearch domain.",
 "getterModel" : {
 "returnType" : "String",
 "documentation" : null
}.
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Options",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Options",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p><p>@param options Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>",
"setterMethodName" : "setOptions",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "options",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "options",
    "variableType" : "String",
    "documentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
"Status" : {
  "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
  "documentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
  "enumType" : null,
  "eventType" : "null",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "status",
  "fluentSetterMethodName" : "status",
  "fluentSetterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
  "getterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.
  "getterModel" : {}
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Status",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Status",
    "uri" : false
  },
  "isDeprecated" : false,
  "documentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.
  "returnType" : "OptionStatus",
  "returnTypeDocumentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain."
@param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain."
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
],
"nonStreamingMembers" : [
  "beanStyleGetterMethodName" : "getOptions",
  "beanStyleSetterMethodName" : "setOptions",
  "c2jName" : "Options",
  "c2jShape" : "ElasticsearchVersionString",
  "defaultConsumerFluentSetterDocumentation" : "Specifies the Elasticsearch version for the specified Elasticsearch domain."
]
This is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via {link String#builder()}. When the {link Consumer} completes, {link String.Builder#build()} is called immediately and its result is passed to {link #options(String)}.

@param options a consumer that will call methods on {link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #options(String)
"deprecated" : false,
"documentation" : "Specifies the Elasticsearch version for the specified Elasticsearch domain."
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>
@param options Specifies the Elasticsearch version for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>
@return Specifies the Elasticsearch version for the specified Elasticsearch domain.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>
@param options Specifies the Elasticsearch version for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "options",
"variableType" : "String"}
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "options",
"variableType": "String",
"documentation": "<p> Specifies the Elasticsearch version for the specified Elasticsearch domain.</p>",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlnsNamespaceUri": null
}, {
"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the [{@link OptionStatus.Builder}] avoiding the need to create one manually via [{@link OptionStatus#builder}]. When the [{@link Consumer}] completes, [{@link OptionStatus.Builder#build}()] is called immediately and its result is passed to [{@link status(OptionStatus)}].

@see #status(OptionStatus)",
"deprecated": false,
"documentation": "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "status",
"fluentSetterDocumentation": "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
"@param status" Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.

@see #status(OptionStatus)",
"getterDocumentation": "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.</p>
@returns Returns a reference to this object so that method calls can be chained together.

@see #status(OptionStatus)",
"getterModel": {
"returnType": "OptionStatus",
"documentation": null
},
"http": {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain. </p>
@param status Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p> Specifies the status of the Elasticsearch version options for the specified Elasticsearch domain. </p>",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "ElasticsearchVersionStatus",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "ElasticsearchVersionStatus",
  "variableName" : "elasticsearchVersionStatus",
  "variableType" : "ElasticsearchVersionStatus",
  "documentation" : null,
  "simpleType" : "ElasticsearchVersionStatus",
  "variableSetterType" : "ElasticsearchVersionStatus"
},
"wrapper" : false
},
"EncryptionAtRestOptions" : {
  "c2jName" : "EncryptionAtRestOptions",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Specifies the Encryption At Rest Options.</p>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "marshaller" : null,
  "marshaller" : null,
  "members" : {
    "beanStyleGetterMethodName" : "getEnabled",
    "beanStyleSetterMethodName" : "setEnabled",
    "c2jName" : "Enabled",
    "c2jShape" : "Boolean",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the option to enable Encryption At
Rest.</p>

This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link enabled(Boolean)}. 

@see enabled(Boolean)

@returns Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p>Specifies the option to enable Encryption At Rest.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "enabled",
"fluentSetterDocumentation" : "<p>Specifies the option to enable Encryption At Rest.</p>

//return Enables a consumer that will call methods on {@link Boolean.Builder}

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "enabled",
"getterDocumentation" : "<p>Specifies the option to enable Encryption At Rest.</p>

//return Specifies the option to enable Encryption At Rest.

"getterModel" : {
 "returnType" : "Boolean",
 "documentation" : null
 },

"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "Enabled",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "Enabled",
 "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"setterDocumentation" : "<p>Specifies the option to enable Encryption At Rest.</p>
@param enabled
Specifies the option to enable Encryption At Rest.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : "<p>Specifies the option to enable Encryption At Rest.</p>
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getKmsKeyId",
  "beanStyleSetterMethodName" : "setKmsKeyId",
  "c2jName" : "KmsKeyId",
  "c2jShape" : "KmsKeyId",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>

  This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #kmsKeyId(String)}.

  @param kmsKeyId a consumer that will call methods on {@link String.Builder}
  @return Returns a reference to this object so that method calls can be chained together.
  @see #kmsKeyId(String)",
  "deprecated" : false,
  "documentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "kmsKeyId",
  "fluentSetterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>

  Specifies the KMS Key ID for Encryption At Rest options.
  @param kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
  @return Returns a reference to this object so that method calls can be chained together.
",}
"fluentSetterMethodName" : "kmsKeyId",
"getterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
  @param kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
  @return Specifies the KMS Key ID for Encryption At Rest options.",
"getterModel" : {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "KmsKeyId",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "KmsKeyId",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "KmsKeyId",
"setterDocumentation": "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
@param
kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
",
"setterMethodName": "setKmsKeyId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "kmsKeyId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "kmsKeyId",
  "variableType": "String",
  "documentation": "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
"membersAsMap" : {
  "Enabled" : {
    "beanStyleGetterMethodName" : "getEnabled",
    "beanStyleSetterMethodName" : "setEnabled",
    "c2jName" : "Enabled",
    "c2jShape" : "Boolean",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the option to enable Encryption At Rest.</p>
    "description" : "This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean.Builder}.
    "documentation" : <p>Specifies the option to enable Encryption At Rest.</p>
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "enabled",
    "fluentSetterDocumentation" : "<p>Specifies the option to enable Encryption At Rest.</p>
    "getParam" : "enabled",
    "getterDocumentation" : "<p>Specifies the option to enable Encryption At Rest.</p>
    "getterModel" : {
      "returnType" : "Boolean",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : null,
      "marshallLocation" : "PAYLOAD",
      "marshallLocationName" : "Enabled",
      "queryString" : false,
      "statusCode" : false,
      "unmarshallLocationName" : "Enabled",
      "uri" : false
  },
  "xmlNameSpaceUri" : null
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"setterDocumentation" : "<p>Specifies the option to enable Encryption At Rest.</p>
@param enabled Specifies the option to enable Encryption At Rest."
"setterMethodName" : "setEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : "<p>Specifies the option to enable Encryption At Rest.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"KmsKeyId" : {
  "beanStyleGetterMethodName" : "getKmsKeyId",
  "beanStyleSetterMethodName" : "setKmsKeyId",
  "c2jName" : "KmsKeyId",
  "c2jShape" : "KmsKeyId",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the KMS Key ID for Encryption At Rest options.</p>"
  "deprecated" : false,
  "documentation" : "<p>Specifies the KMS Key ID for Encryption At Rest options.</p>",
  "enumType" : null,
  "eventHeader" : false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "kmsKeyId",
"fluentSetterDocumentation": "\n\n<p> Specifies the KMS Key ID for Encryption At Rest options.\n</p>\n@param kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName": "kmsKeyId",
"getterDocumentation": "\n\n<p> Specifies the KMS Key ID for Encryption At Rest options.\n</p>\n@return Specifies the KMS Key ID for Encryption At Rest options.\n",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "KmsKeyId",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "KmsKeyId",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "KmsKeyId",
"setterDocumentation": "\n\n<p> Specifies the KMS Key ID for Encryption At Rest options.\n</p>\n@param kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.\n",
"setterMethodName": "setKmsKeyId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "kmsKeyId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String"}
"variableSetterType": "String",
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "kmsKeyId",
  "variableType": "String",
  "documentation": "<p>Specifies the KMS Key ID for Encryption At Rest options.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null

"nonStreamingMembers": [
  {"beanStyleGetterMethodName": "getEnabled",
   "beanStyleSetterMethodName": "setEnabled",
   "c2jName": "Enabled",
   "c2jShape": "Boolean",
   "defaultConsumerFluentSetterDocumentation": "<p>Specifies the option to enable Encryption At
Rest.</p>\nThis is a convenience that creates an instance of the \{@link Boolean.Builder\} avoiding the need to
create one manually via \{@link Boolean#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link
Boolean.Builder#build()\} is called immediately and its result is passed to \{@link
#enabled(Boolean)\}.\n@param enabled a consumer that will call methods on \{@link Boolean.Builder\}\n@return Returns a reference to this object
so that method calls can be chained together.\n@see #enabled(Boolean)",
   "deprecated": false,
   "documentation": "<p>Specifies the option to enable Encryption At Rest.</p>",
   "enumType": null,
   "eventHeader": false,
   "eventPayload": false,
   "fluentEnumGetterMethodName": null,
   "fluentEnumSetterMethodName": null,
   "fluentGetterMethodName": "enabled",
   "fluentSetterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@param enabled Specifies the option to enable Encryption At Rest.\n@return Returns a reference to this object
so that method calls can be chained together.\n@see #enabled(Boolean)",
   "fluentSetterMethodName": "enabled",
   "getterDocumentation": "<p>Specifies the option to enable Encryption At Rest.</p>\n@return Specifies the option to enable Encryption At Rest.\n@see #enabled(Boolean)"
],
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Enabled",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Enabled",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"setterDocumentation" : "<p>Specifies the option to enable Encryption At Rest.</p>
@param enabled
Specifies the option to enable Encryption At Rest.
"setterMethodName" : "setEnabled",
"setterModel" : {

"variableDeclarationType" : "Boolean",
"variableName" : "enabled",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "Boolean",
"variableName" : "enabled",
"variableType" : "Boolean",
"documentation" : "<p>Specifies the option to enable Encryption At Rest.</p>
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getKmsKeyId",
"beanStyleSetterMethodName" : "setKmsKeyId",
"c2jName" : "KmsKeyId",
"c2jShape" : "KmsKeyId"
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}().

When the {@link Consumer} completes, when the consumer is called immediately and its result is passed to the method that call methods on the consumer that will call methods on the String.Builder().

@return Returns a reference to this object so that method calls can be chained together.

@see #kmsKeyId(String)",
"deprecated" : false,
"documentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>">
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "kmsKeyId",
"fluentSetterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.</p>
@param kmsKeyId Specifies the KMS Key ID for Encryption At Rest options.
@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "kmsKeyId",
"getterDocumentation" : "<p> Specifies the KMS Key ID for Encryption At Rest options.
@</p>
\n@return Specifies the KMS Key ID for Encryption At Rest options.
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "KmsKeyId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "KmsKeyId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "KmsKeyId",
"setterDocumentation" : "<p>Specifies the KMS Key ID for Encryption At Rest options.</p>
@param kmsKeyId Specifies the KMS Key ID for Encryption At Rest options."

"setterMethodName" : "setKmsKeyId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "kmsKeyId",
  "variableType" : "String",
  "documentation" : "<p>Specifies the KMS Key ID for Encryption At Rest options.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "EncryptionAtRestOptions",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "encryptionAtRestOptions",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"wrapper" : false
},
"EncryptionAtRestOptionsStatus" : {
  "c2jName" : "EncryptionAtRestOptionsStatus",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "&lt;p&gt; Status of the Encryption At Rest options for the specified Elasticsearch domain.&lt;/p&gt;",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getOptions",
  "beanStyleSetterMethodName" : "setOptions",
  "c2jName" : "Options",
  "c2jShape" : "EncryptionAtRestOptions",
  "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt; Specifies the Encryption At Rest options for the specified Elasticsearch domain.&lt;/p&gt;&lt;ul&gt;This is a convenience that creates an instance of the { @link EncryptionAtRestOptions.Builder} avoiding the need to create one manually via { @link EncryptionAtRestOptions#builder}().&lt;/ul&gt;When the { @link Consumer} completes, { @link EncryptionAtRestOptions.Builder#build}() is called immediately and its result is passed to { @link EncryptionAtRestOptions.Builder#build}().&lt;ul&gt;&lt;li&gt;@param options a consumer that will call methods on { @link EncryptionAtRestOptions.Builder}.&lt;/li&gt;&lt;li&gt;@return Returns a reference to this object so that method calls can be chained together.&lt;/li&gt;&lt;/ul&gt;&lt;@see #options(EncryptionAtRestOptions)&gt;",
  "deprecated" : false,
  "documentation" : "&lt;p&gt; Specifies the Encryption At Rest options for the specified Elasticsearch domain.&lt;/p&gt;",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "options",
  "fluentSetterDocumentation" : "&lt;p&gt; Specifies the Encryption At Rest options for the specified Elasticsearch domain.&lt;/p&gt;&lt;ul&gt;&lt;li&gt;@param options Specifies the Encryption At Rest options for the specified Elasticsearch domain.&lt;/li&gt;&lt;li&gt;@return Returns a reference to this object so that method calls can be chained together.\"&lt;/li&gt;&lt;/ul&gt;&lt;@see #options(EncryptionAtRestOptions)&gt;",
  "getterDocumentation" : "&lt;p&gt; Specifies the Encryption At Rest options for the specified Elasticsearch domain.&lt;/p&gt;&lt;ul&gt;&lt;li&gt;@return Specifies the Encryption At Rest options for the specified Elasticsearch domain.\"&lt;/li&gt;&lt;/ul&gt;&lt;@see #options(EncryptionAtRestOptions)&gt;",
  "getterModel" : {
    "returnType" : "EncryptionAtRestOptions",
    "documentation" : null
  },
}]}
"http": {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain. </p>\n@param options Specifies the Encryption At Rest options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "options",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "options",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain. </p>",
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
}
Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.

@see #options(EncryptionAtRestOptions)

@deprecated

This is a convenience that creates an instance of the {@link EncryptionAtRestOptions} avoiding the need to create one manually via {@link EncryptionAtRestOptions#builder()}, when the {@link Consumer} completes, {@link EncryptionAtRestOptions.Builder#build()} is called immediately and its result is passed to {@link #options(EncryptionAtRestOptions)}. param options a consumer that will call methods on {@link EncryptionAtRestOptions.Builder} returns a reference to this object so that method calls can be chained together.

```java
@return
```
Specifies the Encryption At Rest options for the specified Elasticsearch domain.

```java
public class EncryptionAtRestOptions {
    // Constructor, getters, setters, etc.
}
```
"variableType" : "EncryptionAtRestOptions",
"documentation" : null,
"simpleType" : "EncryptionAtRestOptions",
"variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "EncryptionAtRestOptions",
"variablesName" : "options",
"variableType" : "EncryptionAtRestOptions",
"documentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>",
"simpleType" : "EncryptionAtRestOptions",
"variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
},
"Status" : {
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link OptionStatus.Builder} avoiding the need to create one manually via { @link OptionStatus.builder()}.<p> When the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link #status(OptionStatus)}.<p> @param status a consumer that will call methods on { @link OptionStatus.Builder}<p> @return Returns a reference to this object so that method calls can be chained together.<p> @see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>"
@param status Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.<p> @return Returns a reference to this object so that method calls can be chained together.".,
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>",
"getterModel" : {
"returnType" : "OptionStatus",
"variableType" : "EncryptionAtRestOptions",}
"documentation" : null
],
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. @param status Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
}
"variableSetterType" : "OptionStatus",
},
"xmlNameSpaceUri" : null
}
},

"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "EncryptionAtRestOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link EncryptionAtRestOptions.Builder} avoiding the need to create one manually via { @link EncryptionAtRestOptions#builder}().
When the { @link Consumer} completes, { @link EncryptionAtRestOptions.Builder#build}() is called immediately and its result is passed to { @link
#options(EncryptionAtRestOptions)}.

@param options a consumer that will call methods on { @link
EncryptionAtRestOptions.Builder} that will return Returns a reference to this object so that method calls can be chained together.
@see #options(EncryptionAtRestOptions)

"deprecated" : false,
"documentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.\</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.\</p>\n@returns Specifies the Encryption At Rest options for the specified Elasticsearch domain.\n@returns Returns a reference to this object so that method calls can be chained together.
@see #options(EncryptionAtRestOptions)

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.
@returns Specifies the Encryption At Rest options for the specified Elasticsearch domain.
@returns Returns a reference to this object so that method calls can be chained together.
@see #options(EncryptionAtRestOptions)

"getterModel" : {
  "returnType" : "EncryptionAtRestOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "variableSetterType" : "OptionStatus"
]}
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>
@param options Specifies the Encryption At Rest options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "options",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : null,
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "EncryptionAtRestOptions",
  "variableName" : "options",
  "variableType" : "EncryptionAtRestOptions",
  "documentation" : "<p> Specifies the Encryption At Rest options for the specified Elasticsearch domain.</p>",
  "simpleType" : "EncryptionAtRestOptions",
  "variableSetterType" : "EncryptionAtRestOptions"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#builder()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link OptionStatus.Builder#return}.
@see #status(OptionStatus)",
  "deprecated" : false,
"documentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethod" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. </p>
@param status Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. </p>
@return Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.",
"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain. </p>
@param status Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.
",
"setterMethodName" : "setStatus", }
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p> Specifies the status of the Encryption At Rest options for the specified Elasticsearch domain.</p>",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"xmlNameSpaceUri": null
},
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": ["Options", "Status"],
"shapeName": "EncryptionAtRestOptionsStatus",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "EncryptionAtRestOptionsStatus",
  "variableName": "encryptionAtRestOptionsStatus",
  "variableType": "EncryptionAtRestOptionsStatus",
  "documentation": null,
  "simpleType": "EncryptionAtRestOptionsStatus",
  "variableSetterType": "EncryptionAtRestOptionsStatus"
},
"wrapper": false
},
"GetCompatibleElasticsearchVersionsRequest": {
  "c2jName": "GetCompatibleElasticsearchVersionsRequest",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingUnmarshaller": false,
    "skipGeneratingModelClass": false,
    "staxTargetDepthOffset": 0
  }
}
Container for request parameters to `GetCompatibleElasticsearchVersions` operation.

```json
{
  "deprecated": false,
  "documentation": "Container for request parameters to \`${a}\`GetCompatibleElasticsearchVersions\`\` operation. \nIf the \`@link\` endpoint returns a reference to this object so that method calls can be chained together.\n@see #domainName(String)",
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": {
    "action": "GetCompatibleElasticsearchVersions",
    "locationName": null,
    "requestUri": "/2015-01-01/es/compatibleVersions",
    "target": null,
    "verb": "GET",
    "xmlnsNameSpaceUri": null
  },
  "members": [ {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the DomainName property for this object.\nThis is a convenience that creates an instance of the `{@link String.Builder} avoiding the need to create one manually via `{@link String#builder()}`. When the `{@link Consumer} completes, `{@link String.Builder#build()} is called immediately and its result is passed to `{@link #domainName(String)}`.\n@see #domainName(String)",
    "deprecated": false,
    "documentation": "",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "domainName",
    "fluentSetterDocumentation": "Sets the value of the DomainName property for this object.\nThe new value for the DomainName property for this object.\n@return Returns a reference to this object so that method calls can be chained together."
    "fluentSetterMethodName": "domainName",
    "getterDocumentation": "Returns the value of the DomainName property for this object.
    "getterModel": {
      
    },
```
"returnType" : "String",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "domainName",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "domainName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object. The new value for the DomainName property for this object."
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : ",",
  "simpleType" : "String",
  "variableSetterType" : "String"
"xmlNameSpaceUri": null

"membersAsMap": {
  "DomainName": {
    "beanStyleGetterMethodName": "getDomainName",
    "beanStyleSetterMethodName": "setDomainName",
    "c2jName": "DomainName",
    "c2jShape": "DomainName",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the DomainName property for this object.

This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()].

When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #domainName(String)].

@returns Returns a reference to this object so that method calls can be chained together.

@see #domainName(String)",
    "deprecated": false,
    "documentation": "",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "domainName",
    "fluentSetterDocumentation": "Sets the value of the DomainName property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

@see #domainName(String)",
    "getterDocumentation": "Returns the value of the DomainName property for this object.

@returns The value of the DomainName property for this object.

@see getterModel()
    
    "getterModel": {
      "returnType": "String",
      "documentation": null
    },

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "querystring",
  "marshallLocation": "QUERY_PARAM",
  "marshallLocationName": "domainName",
  "queryString": true,
  "statusCode": false,
  "unmarshallLocationName": "domainName",
  "uri": false
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object. The new value for the DomainName property for this object."

"setterMethodName" : "setDomainName",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "domainName",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "domainName",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
"

"nonStreamingMembers" : [
 "beanStyleGetterMethodName" : "getDomainName",
 "beanStyleSetterMethodName" : "setDomainName",
 "c2jName" : "DomainName",
 "c2jShape" : "DomainName",
 "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object. This is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via {link String#builder()}. When the {link Consumer} completes, {link String.Builder#build()} is called immediately and its result is passed to {link #domainName(String)}. @param domainName a consumer that will call methods on {link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #domainName(String)"
,"deprecated" : false,
 "documentation" : "",
 "enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
@param domainName
The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.
@return The value of the DomainName property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "domainName",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "domainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object.
@param domainName
The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "GetCompatibleElasticsearchVersionsRequest",
"simpleMethod" : true,
"unmarshaller" : null,
"variable" : {
"variableDeclarationType" : "GetCompatibleElasticsearchVersionsRequest",
"variableName" : "getCompatibleElasticsearchVersionsRequest",
"variableType" : "GetCompatibleElasticsearchVersionsRequest",
"documentation" : null,
"simpleType" : "GetCompatibleElasticsearchVersionsRequest",
"variableSetterType" : "GetCompatibleElasticsearchVersionsRequest"
},
"wrapper" : false
},
"GetCompatibleElasticsearchVersionsResponse" : {
"c2jName" : "GetCompatibleElasticsearchVersionsResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> Container for response returned by <code><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
A map of compatible Elasticsearch versions returned as part of the `<code>GetCompatibleElasticsearchVersions</code>` operation.

This is a convenience that creates an instance of the `<code>List<CompatibleVersionsMap>.Builder</code>` avoiding the need to create one manually via `<code>List<CompatibleVersionsMap>#builder()</code>

When the `<code>Consumer</code>` completes, `<code>Builder#build()</code>` is called immediately and its result is passed to `<code>List<CompatibleVersionsMap></code>

A map of compatible Elasticsearch versions returned as part of the `<code>GetCompatibleElasticsearchVersions</code>` operation.

A map of compatible Elasticsearch versions returned as part of the `<code>GetCompatibleElasticsearchVersions</code>` operation.

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A map of compatible Elasticsearch versions returned as part of the `<code>GetCompatibleElasticsearchVersions</code>` operation.

A map of compatible Elasticsearch versions returned as part of the `<code>GetCompatibleElasticsearchVersions</code>` operation.
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CompatibleElasticsearchVersions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CompatibleElasticsearchVersions",
"uri" : false
}
,"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "CompatibleVersionsMap",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThis is a convenience that creates an instance of the [@link CompatibleVersionsMap.Builder] avoiding the need to create one manually via [@link CompatibleVersionsMap#builder()].\n\nWhen the [@link Consumer] completes, [@link CompatibleVersionsMap.Builder#build()] is called immediately and its result is passed to [@link #member(CompatibleVersionsMap.Builder)]\n\n@param member a consumer that will call methods on [@link CompatibleVersionsMap.Builder]\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see #member(CompatibleVersionsMap)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\nThe new value for the Member property for this object.\n\n@returns Returns a reference to this object so that method calls can be chained together.,",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n\nThe value of the Member property for this object."
  "getterModel" : {
    "returnType" : "CompatibleVersionsMap",
    "documentation" : null
  }
}
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "member",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "member",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
  
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "CompatibleVersionsMap",
  "variableName": "member",
  "variableType": "CompatibleVersionsMap",
  "documentation": null,
  "simpleType": "CompatibleVersionsMap",
  "variableSetterType": "CompatibleVersionsMap"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "CompatibleVersionsMap",
  "variableName": "member",
  "variableType": "CompatibleVersionsMap",
  "documentation": "",
  "simpleType": "CompatibleVersionsMap",
  "variableSetterType": "CompatibleVersionsMap"
},
"xmlNameSpaceUri": null
A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation. 

```java
\n@param compatibleElasticsearchVersions
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A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.

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This is a convenience that creates an instance of the \{[@link List<CompatibleVersionsMap>.Builder)]\} avoiding the need to create one manually via \{[@link List<CompatibleVersionsMap>#builder()]\}. When the \{[@link Consumer]\} completes, \{[@link List<CompatibleVersionsMap>.Builder#build()]\} is called immediately and its result is passed to \{[@link compatibleElasticsearchVersions(List<CompatibleVersionsMap>)]\}. \@param compatibleElasticsearchVersions A consumer that will call methods on \{[@link List<CompatibleVersionsMap>.Builder]\} \n\@return Returns a reference to this object so that method calls can be chained together.\n\@see #compatibleElasticsearchVersions(List<CompatibleVersionsMap>)

A map of compatible Elasticsearch versions returned as part of the \{[@link GetCompatibleElasticsearchVersions]\} operation. A map of compatible Elasticsearch versions returned as part of the \{[@link GetCompatibleElasticsearchVersions]\} operation.

A map of compatible Elasticsearch versions returned as part of the \{[@link GetCompatibleElasticsearchVersions]\} operation.

A map of compatible Elasticsearch versions returned as part of the \{[@link GetCompatibleElasticsearchVersions]\} operation. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\@return A map of compatible Elasticsearch versions returned as part of the \{[@link GetCompatibleElasticsearchVersions]\} operation.

A map of compatible Elasticsearch versions returned as part of the \{[@link GetCompatibleElasticsearchVersions]\} operation.

A map of compatible Elasticsearch versions returned as part of the \{[@link GetCompatibleElasticsearchVersions]\} operation.

A map of compatible Elasticsearch versions returned as part of the \{[@link GetCompatibleElasticsearchVersions]\} operation.

A map of compatible Elasticsearch versions returned as part of the \{[@link GetCompatibleElasticsearchVersions]\} operation.
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "CompatibleVersionsMap",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the { @link CompatibleVersionsMap.Builder} avoiding the need to create one manually via { @link CompatibleVersionsMap.Builder#builder()}. When the { @link Consumer} completes, { @link CompatibleVersionsMap.Builder#build()} is called immediately and its result is passed to { @link #member(CompatibleVersionsMap)}. @param member a consumer that will call methods on { @link CompatibleVersionsMap.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #member(CompatibleVersionsMap)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object.
    @return Returns a reference to this object so that method calls can be chained together.".
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.
    @return The value of the Member property for this object.
    "getterModel" : {
      "returnType" : "CompatibleVersionsMap",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : null,
      "marshallLocation" : "PAYLOAD",
      "marshallLocationName" : "member",
      "implType" : "java.util.ArrayList",
      "interfaceType" : "java.util.List",
    }
  }
}

Open Source Used In Data Center Network Manager 11.5(1) 20017
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "CompatibleVersionsMap",
  "variableName" : "member",
  "variableType" : "CompatibleVersionsMap",
  "documentation" : null,
  "simpleType" : "CompatibleVersionsMap",
  "variableSetterType" : "CompatibleVersionsMap"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CompatibleVersionsMap",
  "variableName" : "member",
  "variableType" : "CompatibleVersionsMap",
  "documentation" : "",
  "simpleType" : "CompatibleVersionsMap",
  "variableSetterType" : "CompatibleVersionsMap"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "CompatibleVersionsMap",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "CompatibleVersionsMap",
"templateImplType" : "java.util.ArrayList<CompatibleVersionsMap>",
"templateType" : "java.util.List<CompatibleVersionsMap>"}
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "CompatibleElasticsearchVersions",
"setterDocumentation" : "A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation."
@param compatibleElasticsearchVersions
A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.
,"setterMethodName" : "setCompatibleElasticsearchVersions",
"setterModel" : {
"variableDeclarationType" : "java.util.List<CompatibleVersionsMap>",
"variableName" : "compatibleElasticsearchVersions",
"variableType" : "java.util.List<CompatibleVersionsMap>",
"documentation" : null,
"simpleType" : "List<CompatibleVersionsMap>",
"variableSetterType" : "java.util.Collection<CompatibleVersionsMap>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<CompatibleVersionsMap>",
"variableName" : "compatibleElasticsearchVersions",
"variableType" : "java.util.List<CompatibleVersionsMap>",
"documentation" : "A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation."
@param compatibleElasticsearchVersions
A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.
,"simpleType" : "List<CompatibleVersionsMap>",
"variableSetterType" : "java.util.Collection<CompatibleVersionsMap>"
},
"xmlNameSpaceUri" : null
}
},

"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getCompatibleElasticsearchVersions",
"beanStyleSetterMethodName" : "setCompatibleElasticsearchVersions",
"c2jName" : "CompatibleElasticsearchVersions",
"c2jShape" : "CompatibleElasticsearchVersionsList",
"defaultConsumerFluentSetterDocumentation" : "A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation."
@param compatibleElasticsearchVersions
A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.
,"deprecated" : false,
"documentation" : "A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.
,"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "compatibleElasticsearchVersions",
"fluentSetterDocumentation" : "<p>A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>
@param compatibleElasticsearchVersions
A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "compatibleElasticsearchVersions",
"getterDocumentation" : "<p>A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.",
"getterModel" : {
  "returnType" : "java.util.List<CompatibleVersionsMap>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "CompatibleElasticsearchVersions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "CompatibleElasticsearchVersions",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "CompatibleVersionsMap",
    "csharpName" : "member",
    "csharpShape" : "CompatibleVersionsMap",
    "javaType" : "java.util.List<CompatibleVersionsMap>",
    "javaShape" : "CompatibleVersionsMap",
    "listMemberType" : "CompatibleVersionsMap"
  }
}
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [ @link CompatibleVersionsMap.Builder] avoiding the need to create one manually via [ @link CompatibleVersionsMap#builder()].

When the [ @link Consumer] completes, [ @link CompatibleVersionsMap.Builder#build()] is called immediately and its result is passed to [ @link CompatibleVersionsMap.Builder] when [ @param member] a consumer that will call methods on [ @link CompatibleVersionsMap.Builder] returns a reference to this object so that method calls can be chained together.

@see #member(CompatibleVersionsMap)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@see #member(CompatibleVersionsMap)",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@see #member(CompatibleVersionsMap)",
"getterModel" : {
  "returnType" : "CompatibleVersionsMap",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "CompatibleVersionsMap",
  "variableName" : "member",
  "variableType" : "CompatibleVersionsMap",
  "documentation" : null,
  "simpleType" : "CompatibleVersionsMap",
  "variableSetterType" : "CompatibleVersionsMap"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CompatibleVersionsMap",
  "variableName" : "member",
  "variableType" : "CompatibleVersionsMap",
  "documentation" : null,
  "simpleType" : "CompatibleVersionsMap",
  "variableSetterType" : "CompatibleVersionsMap"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "CompatibleVersionsMap",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "CompatibleVersionsMap",
"templateImplType" : "java.util.ArrayList<CompatibleVersionsMap>",
"templateType" : "java.util.List<CompatibleVersionsMap>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "CompatibleElasticsearchVersions",
"setterDocumentation" : "A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.\n\n@param compatibleElasticsearchVersions A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation.",
"setterMethodName" : "setCompatibleElasticsearchVersions",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<CompatibleVersionsMap>",
  "variableName" : "compatibleElasticsearchVersions",
  "variableType" : "java.util.List<CompatibleVersionsMap>",
  "variableSetterType" : "java.util.List<CompatibleVersionsMap>"
"documentation" : null,
"simpleType" : "List<CompatibleVersionsMap>",
"variableSetterType" : "java.util.Collection<CompatibleVersionsMap>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<CompatibleVersionsMap>",
  "variableName" : "compatibleElasticsearchVersions",
  "variableType" : "java.util.List<CompatibleVersionsMap>",
  "documentation" : "<p> A map of compatible Elasticsearch versions returned as part of the <code><a>GetCompatibleElasticsearchVersions</a></code> operation. </p>",
  "simpleType" : "List<CompatibleVersionsMap>",
  "variableSetterType" : "java.util.Collection<CompatibleVersionsMap>"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "GetCompatibleElasticsearchVersionsResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "GetCompatibleElasticsearchVersionsResponse",
  "variableName" : "getCompatibleElasticsearchVersionsResponse",
  "variableType" : "GetCompatibleElasticsearchVersionsResponse",
  "documentation" : null,
  "simpleType" : "GetCompatibleElasticsearchVersionsResponse",
  "variableSetterType" : "GetCompatibleElasticsearchVersionsResponse"
},
"wrapper" : false
},
"GetUpgradeHistoryRequest" : {
  "c2jName" : "GetUpgradeHistoryRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p> Container for request parameters to <code><a>GetUpgradeHistory</a></code> operation. </p>",
"operation"
}
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
    "action" : "GetUpgradeHistory",
    "locationName" : null,
    "requestUri" : "/2015-01-01/es/upgradeDomain/{DomainName}/history",
    "target" : null,
    "verb" : "GET",
    "xmlnsSpaceUri" : null
},
"members" : [
    {
        "beanStyleGetterMethodName" : "getDomainName",
        "beanStyleSetterMethodName" : "setDomainName",
        "c2jName" : "DomainName",
        "c2jShape" : "DomainName",
        "defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.
@param domainName a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #domainName(String)",
        "deprecated" : false,
        "documentation" : "",
        "enumType" : null,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : null,
        "fluentEnumSetterMethodName" : null,
        "fluentGetterMethodName" : "domainName",
        "fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
@param domainName The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together.
",
        "fluentSetterMethodName" : "domainName",
        "getterDocumentation" : "Returns the value of the DomainName property for this object.
",
        "getterModel" : {
            "returnType" : "String",
            "documentation" : null
        },
        "http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object.

@param domainName
The new value for the DomainName property for this object.
",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getMaxResults",
Sets the value of the MaxResults property for this object. This is a convenience that creates an instance of the `Integer.Builder` avoiding the need to create one manually via `Integer.builder()`. When the Consumer completes, `Integer.Builder#build()` is called immediately and its result is passed to `maxResults(Integer)`.

- `@param maxResults` a consumer that will call methods on `Integer.Builder`
- `@return` Returns a reference to this object so that method calls can be chained together.
- `@see #maxResults(Integer)`,

Sets the new value for the MaxResults property for this object. The new value for the MaxResults property for this object.

- `@return` Returns a reference to this object so that method calls can be chained together.

Returns the value of the MaxResults property for this object.

- `@return` The value of the MaxResults property for this object.
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "Sets the value of the MaxResults property for this object.\n\n@param maxResults The new value for the MaxResults property for this object.",
"setterMethodName" : "setMaxResults",
"setterModel" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "maxResults",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "maxResults",
    "variableType" : "Integer",
    "documentation" : "",
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null,
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object.\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #nextToken(String)}.\n\n@param nextToken a consumer that will call methods on {@link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #nextToken(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.\n\n@see #nextToken(String)"
"fluentSetterDocumentation" : "\n\nSets the value of the NextToken property for this object.\n\n@see #nextToken(String)"
"fluentSetterDocumentation" : "\n\nSets the value of the NextToken property for this object.\n\n@see #nextToken(String)"
"fluentSetterDocumentation" : "\n\nSets the value of the NextToken property for this object.\n\n@see #nextToken(String)"
"fluentSetterDocumentation" : "\n\nSets the value of the NextToken property for this object.\n\n@see #nextToken(String)"
"fluentSetterDocumentation" : "\n\nSets the value of the NextToken property for this object.\n\n@see #nextToken(String)"
"fluentSetterDocumentation" : "\n\nSets the value of the NextToken property for this object.\n\n@see #nextToken(String)";
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "Returns the value of the NextToken property for this object.
@return The value of the NextToken property for this object.",
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "queryString",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "nextToken",
    "queryString" : true,
    "statusCode" : false,
    "unmarshallLocationName" : "nextToken",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "Sets the value of the NextToken property for this object.
@param nextToken The new value for the NextToken property for this object.",
"setterMethodName" : "setNextToken",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "nextToken",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "nextToken"
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
],
"xmlNameSpaceUri" : null
}],
"membersAsMap" : {
 "DomainName" : {
 "beanStyleGetterMethodName" : "getDomainName",
 "beanStyleSetterMethodName" : "setDomainName",
 "c2jName" : "DomainName",
 "c2jShape" : "DomainName",
 "defaultValueFluentSetterDocumentation" : "Sets the value of the DomainName property for this object. This is a convenience that creates an instance of the [\link String.Builder] avoiding the need to create one manually via [\link String#builder()]. When the [\link Consumer] completes, [\link String.Builder#build()] is called immediately and its result is passed to [\link #domainName(String)]. @param domainName a consumer that will call methods on [\link String.Builder] @return Returns a reference to this object so that method calls can be chained together. @see #domainName(String)",
 "deprecated" : false,
 "documentation" : "",
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
 "fluentEnumGetterMethodName" : null,
 "fluentEnumSetterMethodName" : null,
 "fluentGetterMethodName" : "domainName",
 "fluentSetterDocumentation" : "Sets the value of the DomainName property for this object. The new value for the DomainName property for this object. @return Returns a reference to this object so that method calls can be chained together.",
 "fluentSetterMethodName" : "domainName",
 "getterDocumentation" : "Returns the value of the DomainName property for this object.",
 "getterModel" : {
 "returnType" : "String",
 "documentation" : null
 },
 "http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : "uri",
 "marshallLocation" : "PATH",
 "marshallLocationName" : "DomainName",}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object.

@param domainName The new value for the DomainName property for this object."
,"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"MaxResults" : {
  "beanStyleGetterMethodName" : "getMaxResults",
  "beanStyleSetterMethodName" : "setMaxResults",
  "c2jName" : "MaxResults",
  "c2jShape" : "MaxResults",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the MaxResults property for this object.

This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #maxResults(Integer)}. Returns a reference to this object so that method calls can be chained together."
,"paramref maxResults a consumer that will call methods on {@link Integer.Builder} return Returns a reference to this object so that method calls can be chained together."
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "Sets the value of the MaxResults property for this object.\n@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "Returns the value of the MaxResults property for this object.\n@returns The value of the MaxResults property for this object."
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "Sets the value of the MaxResults property for this object.\n@returns Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMaxResults",
"setterModel" : {
"variableDeclarationType" : "Integer"}
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"NextToken" : {
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "NextToken",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object. This is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via {link String#builder()}. When the {link Consumer} completes, {link String.Builder#build()} is called immediately and its result is passed to {link #nextToken(String)}. @param nextToken a consumer that will call methods on {link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #nextToken(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "nextToken",
  "fluentSetterDocumentation" : "Sets the value of the NextToken property for this object. The new value for the NextToken property for this object. @return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "nextToken",
  "getterDocumentation" : "Returns the value of the NextToken property for this object. The value of the NextToken property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "nextToken",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "nextToken",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "nextToken",
"setterDocumentation" : "Sets the value of the NextToken property for this object.

@param nextToken The new value for the NextToken property for this object."
,"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object. This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.Builder(). When the `Consumer` completes, the `String.Builder#build()` is called immediately and its result is passed to `#domainName(String)`.
  
  *param domainName a consumer that will call methods on `String.Builder`*
  
  @return Returns a reference to this object so that method calls can be chained together.
  
  @see #domainName(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "domainName",
  "fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
  
  @param domainName The new value for the DomainName property for this object.
  
  @return Returns a reference to this object so that method calls can be chained together.
  
  @see #domainName(String)",
  "fluentSetterMethodName" : "domainName",
  "getterDocumentation" : "Returns the value of the DomainName property for this object.
  
  @return The value of the DomainName property for this object.
  
  @getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "uri",
    "marshallLocation" : "PATH",
    "marshallLocationName" : "DomainName",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "DomainName",
    "uri" : true
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "isStreaming" : false,
The new value for the DomainName property for this object.

@setDomainName method.

setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getMaxResults",
  "beanStyleSetterMethodName" : "setMaxResults",
  "c2jName" : "MaxResults",
  "c2jShape" : "MaxResults",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the MaxResults property for this
object.\n\nThis is a convenience that creates an instance of the \n[@link Integer.Builder] avoiding the need to create
one manually via \n[@link Integer#builder()].\n\nWhen the \n[@link Consumer] completes, \n[@link
Integer.Builder#build()] is called immediately and its result is passed to \n[@link #maxResults(Integer)].\n\n@maxResults a consumer that will call methods on \n[@link Integer.Builder]\n\nto return a reference to this
object so that method calls can be chained together.\n\n@see #maxResults(Integer)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "maxResults",
  "fluentSetterDocumentation" : "Sets the value of the MaxResults property for this object.\n\n@param
maxResults The new value for the MaxResults property for this object.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "Returns the value of the MaxResults property for this object.

@return The value of the MaxResults property for this object.

"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "maxResults",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "maxResults",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "Sets the value of the MaxResults property for this object.

@param maxResults The new value for the MaxResults property for this object.

@return a reference to this object so that method calls can be chained together.

"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},

"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : "",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
{
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultValueFluentSetterDocumentation" : "Sets the value of the NextToken property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}.
@param nextToken a consumer that will call methods on { @link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.

@see #nextToken(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : "",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object. The new value for the NextToken property for this object.

@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "Returns the value of the NextToken property for this object.

@return The value of the NextToken property for this object.
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "nextToken",
"marshallLocationValue" : "nextToken"}
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "nextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "Sets the value of the NextToken property for this object.\n\n@param nextToken The new value for the NextToken property for this object.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
] }
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "GetUpgradeHistoryRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "GetUpgradeHistoryRequest",
  "variableName" : "getUpgradeHistoryRequest",
  "variableType" : "GetUpgradeHistoryRequest",
  "documentation" : null,
}
"simpleType" : "GetUpgradeHistoryRequest",
"variableSetterType" : "GetUpgradeHistoryRequest",
"wrapper" : false,
"GetUpgradeHistoryResponse" : {
"c2jName" : "GetUpgradeHistoryResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> Container for response returned by <code> <a>GetUpgradeHistory</a> </code>
operation. </p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshaller" : null,
"members" : [ {
"beanStyleGetterMethodName" : "getUpgradeHistories",
"beanStyleSetterMethodName" : "setUpgradeHistories",
"c2jName" : "UpgradeHistories",
"c2jShape" : "UpgradeHistoryList",
"defaultConsumerFluentSetterDocumentation" : "<p> A list of <code> <a>UpgradeHistory</a> </code>
objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of
<code> <a>GetUpgradeHistoryResponse</a> </code> object. </p>

This is a convenience that creates an instance of the
{@link List<UpgradeHistory>.Builder} avoiding the need to create one manually via
{@link List<UpgradeHistory>#builder()}. When the {@link Consumer} completes,
{@link List<UpgradeHistory>.Builder#build()} is called immediately and its result is passed to
{@link upgradeHistories(List<UpgradeHistory>)}. On return
Returns a reference to this object so that method calls can be
chained together.

@see upgradeHistories(List<UpgradeHistory>)",
"deprecated" : false,
"documentation" : "<p> A list of <code> <a>UpgradeHistory</a> </code>
objects corresponding to each
Upgrade or Upgrade Eligibility Check performed on a domain returned as part of
<code> <a>GetUpgradeHistoryResponse</a> </code> object. </p>"},
"enumType" : null,
"eventHeader" : false,
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [@link UpgradeHistory.Builder] avoiding the need to create one manually via [@link UpgradeHistory#builder()]. When the [@link Consumer] completes, [@link UpgradeHistory.Builder#build()] is called immediately and its result is passed to [@link UpgradeHistory.Builder] if param a consumer that will call methods on [@link UpgradeHistory.Builder].\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(UpgradeHistory)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member
The new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getStoreDocumentation" : "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object."
"getModel" : {
"returnType" : "UpgradeHistory",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
    "variableDeclarationType" : "UpgradeHistory",
    "variableName" : "member",
    "variableType" : "UpgradeHistory",
    "documentation" : null,
    "simpleType" : "UpgradeHistory",
    "variableSetterType" : "UpgradeHistory"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "UpgradeHistory",
    "variableName" : "member",
    "variableType" : "UpgradeHistory",
    "documentation" : null,
    "simpleType" : "UpgradeHistory",
    "variableSetterType" : "UpgradeHistory"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "UpgradeHistory",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "UpgradeHistory",
"templateImplType" : "java.util.ArrayList<UpgradeHistory>",
"templateType" : "java.util.List<UpgradeHistory>",
"setterDocumentation" : "<p>A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object. <code><a>GetUpgradeHistoryResponse</a></code> A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object. <code><a>GetUpgradeHistoryResponse</a></code> A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object.",
"setterMethodName" : "setUpgradeHistories",
"setterModel" : {
    "variableDeclarationType" : "java.util.List<UpgradeHistory>",
    "variableName": "upgradeHistories",
    "variableType": "UpgradeHistory",
    "documentation": null,
    "simpleType": "UpgradeHistory",
    "variableSetterType": "UpgradeHistory"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "UpgradeHistory",
    "variableName": "upgradeHistories",
    "variableType": "UpgradeHistory",
    "documentation": null,
    "simpleType": "UpgradeHistory",
    "variableSetterType": "UpgradeHistory"
},
"xmlNameSpaceUri": null
}
"variableName": "upgradeHistories",
"variableType": "java.util.List<UpgradeHistory>",
"documentation": null,
"simpleType": "List<UpgradeHistory>",
"variableSetterType": "java.util.Collection<UpgradeHistory>",
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.util.List<UpgradeHistory>",
"variableName": "upgradeHistories",
"variableType": "java.util.List<UpgradeHistory>",
"documentation": "<p> A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object. </p>",
"simpleType": "List<UpgradeHistory>",
"variableSetterType": "java.util.Collection<UpgradeHistory>",
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getNextToken",
"beanStyleSetterMethodName": "setNextToken",
"c2jName": "NextToken",
"c2jShape": "String",
"defaultConsumerFluentSetterDocumentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {
@param nextToken a consumer that will call methods on {
@link String.Builder} @return Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)
"deprecated": false,
"documentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "nextToken",
"fluentSetterDocumentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
@returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)
"deprecated": false,
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "NextToken",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "NextToken",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NextToken",
"setterDocumentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
@param nextToken Pagination token that needs to be supplied to the next call to get the next page of results",
"setterMethodName": "setNextToken",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String",
  "documentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>",
  "simpleType": "String",
  "variableSetterType": "String"
"NextToken": {
  "beanStyleGetterMethodName": "getNextToken",
  "beanStyleSetterMethodName": "setNextToken",
  "c2jName": "NextToken",
  "c2jShape": "String",
  "defaultConsumerFluentSetterDocumentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
  This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #nextToken(String) }.
  @param nextToken a consumer that will call methods on { @link String.Builder}
  @return Returns a reference to this object so that method calls can be chained together.
  @see #nextToken(String)"
},
  "deprecated": false,
  "documentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "nextToken",
  "fluentSetterDocumentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
  @param nextToken Pagination token that needs to be supplied to the next call to get the next page of results
  @return Returns a reference to this object so that method calls can be chained together.
  @see #nextToken(String)"
},
  "getterDocumentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
  @param nextToken Pagination token that needs to be supplied to the next call to get the next page of results
  @return Returns a reference to this object so that method calls can be chained together.
  @see #nextToken(String)"
},
  "getterModel": {
    "returnType": "String",
    "documentation": null
  }
}
,"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "NextToken",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "NextToken"
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>
@param nextToken Pagination token that needs to be supplied to the next call to get the next page of results",
"setterMethodName" : "setNextToken",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "nextToken",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "nextToken",
"variableType" : "String",
"documentation" : "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpgradeHistories" : {
"beanStyleGetterMethodName" : "getUpgradeHistories",
"beanStyleSetterMethodName" : "setUpgradeHistories",
"c2jName" : "UpgradeHistories",
"c2jShape" : "UpgradeHistoryList",
"defaultConsumerFluentSetterDocumentation" : "<p>A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object. </p>
This is a convenience that creates an instance of the [link List<UpgradeHistory>.Builder] avoiding the need to create one manually via [link List<UpgradeHistory>#builder()]. When the [link Consumer] completes, [link List<UpgradeHistory>.Builder#build()] is called immediately and its result is passed to [link upgradeHistories(List<UpgradeHistory>)].
@param upgradeHistories a consumer that will call methods on
{ @link List<UpgradeHistory>.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #upgradeHistories(List<UpgradeHistory>)",
  "deprecated" : false,
  "documentation" : "<p> A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code> <a>GetUpgradeHistoryResponse</a> </code> object. </p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "upgradeHistories",
  "fluentSetterDocumentation" : "<p> A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code> <a>GetUpgradeHistoryResponse</a> </code> object. </p>
  @param upgradeHistories A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code> <a>GetUpgradeHistoryResponse</a> </code> object.
  @return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "upgradeHistories",
  "getterDocumentation" : "<p> A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code> <a>GetUpgradeHistoryResponse</a> </code> object. </p>
  <p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
  @return A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code> <a>GetUpgradeHistoryResponse</a> </code> object.
  "getterModel" : {
    "returnType" : "java.util.List<UpgradeHistory>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "UpgradeHistories",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "UpgradeHistories",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
This is a convenience that creates an instance of the \{@link UpgradeHistory.Builder\} avoiding the need to create one manually via \{@link UpgradeHistory#builder()\}. When the \{@link Consumer\} completes, \{@link UpgradeHistory.Builder#build()\} is called immediately and its result is passed to \{@link #member(UpgradeHistory)\}. The new value for the Member property for this object.

\@param member a consumer that will call methods on \{@link UpgradeHistory.Builder\}
\@return Returns a reference to this object so that method calls can be chained together.

\@see #member(UpgradeHistory)\n
The new value for the Member property for this object.
\@return Returns a reference to this object so that method calls can be chained together.

\@see #member(UpgradeHistory)\n
\@return The value of the Member property for this object.

\@param member The new value for the Member property for this object.
\@return Returns a reference to this object so that method calls can be chained together.

\@see #member(UpgradeHistory)\n
The new value for the Member property for this object.

\@return Returns a reference to this object so that method calls can be chained together.

\@see #member(UpgradeHistory)\n
The new value for the Member property for this object.

"uri" : false,
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"isBinary" : false,
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"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "UpgradeHistory",
  "variableName" : "member",
  "variableType" : "UpgradeHistory",
  "documentation" : null,
  "simpleType" : "UpgradeHistory",
  "variableSetterType" : "UpgradeHistory"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "UpgradeHistory",
  "variableName" : "member",
  "variableType" : "UpgradeHistory",
  "documentation" : "",
  "simpleType" : "UpgradeHistory",
  "variableSetterType" : "UpgradeHistory"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "UpgradeHistory",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "UpgradeHistory",
"templateImplType" : "java.util.ArrayList<UpgradeHistory>",
"templateType" : "java.util.List<UpgradeHistory>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "UpgradeHistories", 将未格式化的文本调整为自然语言的文本。
A list of `UpgradeHistory` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of `GetUpgradeHistoryResponse` object.

```

@<a>param upgradeHistories
A list of `UpgradeHistory` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object.

```

```

"setterDocumentation": 
"setterMethodName": 
"setterModel": {
  "variableDeclarationType": "java.util.List<UpgradeHistory>",
  "variableName": "upgradeHistories",
  "variableType": "java.util.List<UpgradeHistory>",
  "documentation": null,
  "simpleType": "List<UpgradeHistory>",
  "variableSetterType": "java.util.Collection<UpgradeHistory>"
},

"simple": false,
"timestampFormat": null,

```

```

"nonStreamingMembers": [
  "beanStyleGetterMethodName": "getUpgradeHistories",
  "beanStyleSetterMethodName": "setUpgradeHistories",
  "c2jName": "UpgradeHistories",
  "c2jShape": "UpgradeHistoryList",
  "defaultConsumerFluentSetterDocumentation": 
"A list of `UpgradeHistory` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of `GetUpgradeHistoryResponse` object.

```

```

"deprecated": false,
"documentation": 

```

```

[violation]

"enumType": null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeHistories",
"fluentSetterDocumentation" : "<p> A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code> <a>GetUpgradeHistoryResponse</a> </code> object. </p>
@param upgradeHistories A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code> <a>GetUpgradeHistoryResponse</a> </code> object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "upgradeHistories",
"getterDocumentation" : "<p> A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code> <a>GetUpgradeHistoryResponse</a> </code> object. </p>
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException. </p>
@return A list of <code> <a>UpgradeHistory</a> </code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code> <a>GetUpgradeHistoryResponse</a> </code> object.",
"getterModel" : {
  "returnType" : "java.util.List<UpgradeHistory>",
  "documentation" : null
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  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeHistories",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpgradeHistories",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
  }
},
"c2jName" : "member",
"c2jShape" : "UpgradeHistory",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the { @link UpgradeHistory.Builder} avoiding the need to create one manually via { @link UpgradeHistory#builder()}. When the { @link Consumer} completes, { @link UpgradeHistory.Builder#build()} is called immediately and its result is passed to { @link #member(UpgradeHistory)}.\n\n@param member a consumer that will call methods on { @link UpgradeHistory.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(UpgradeHistory)",
    "deprecated" : false,
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    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(UpgradeHistory)",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object.",
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        "documentation" : null
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        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
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        "marshallLocationName" : "member",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "member",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
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  "variableName" : "member",
  "variableType" : "UpgradeHistory",
  "documentation" : null,
  "simpleType" : "UpgradeHistory",
  "variableSetterType" : "UpgradeHistory"
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"timestampFormat" : null,
"variable" : {
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  "variableName" : "member",
  "variableType" : "UpgradeHistory",
  "documentation" : null,
  "simpleType" : "UpgradeHistory",
  "variableSetterType" : "UpgradeHistory"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "UpgradeHistory",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "UpgradeHistory",
"templateImplType" : "java.util.ArrayList<UpgradeHistory>",
"templateType" : "java.util.List<UpgradeHistory>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "UpgradeHistories",
"setterDocumentation" : "A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object.

@param upgradeHistories A list of <code><a>UpgradeHistory</a></code> objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of <code><a>GetUpgradeHistoryResponse</a></code> object."
"setterMethodName" : "setUpgradeHistories",
"setterModel" : {
A list of `<code> <a>UpgradeHistory</a> </code>` objects corresponding to each Upgrade or Upgrade Eligibility Check performed on a domain returned as part of `<code>GetUpgradeHistoryResponse</code>` object.
"documentation": null
},
"http": {
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  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "NextToken",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "NextToken",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NextToken",
"setterDocumentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>\n\n@param nextToken Pagination token that needs to be supplied to the next call to get the next page of results",
"setterMethodName": "setNextToken",
"setterModel": {
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  "variableName": "nextToken",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
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"timestampFormat": null,
"variable": {
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  "variableName": "nextToken",
  "variableType": "String",
  "documentation": "<p>Pagination token that needs to be supplied to the next call to get the next page of results</p>",
  "simpleType": "String"}
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
] ]},
"requestSignerAware" : false,
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"required" : null,
"shapeName" : "GetUpgradeHistoryResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
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"variable" : {
  "variableDeclarationType" : "GetUpgradeHistoryResponse",
  "variableName" : "getUpgradeHistoryResponse",
  "variableType" : "GetUpgradeHistoryResponse",
  "documentation" : null,
  "simpleType" : "GetUpgradeHistoryResponse",
  "variableSetterType" : "GetUpgradeHistoryResponse"
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"wrapper" : false
},
"GetUpgradeStatusRequest" : {
  "c2jName" : "GetUpgradeStatusRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "&lt;p&gt; Container for request parameters to &lt;code&gt; &lt;a&gt;GetUpgradeStatus&lt;/a&gt; &lt;/code&gt; operation. &lt;/p&gt;",
  "enums" : null,
  "errorCode" : null,
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  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : {
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    "locationName" : null,
"requestUri" : "/2015-01-01/es/upgradeDomain/{DomainName}/status",
"target" : null,
"verb" : "GET",
"xmlNameSpaceUri" : null
],
"members" : [ {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
  "c2jName" : "DomainName",
  "c2jShape" : "DomainName",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object. This is a convenience that creates an instance of the @link String.Builder avoiding the need to create one manually via @link String#builder(). When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #domainName(String). @param domainName a consumer that will call methods on @link String.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see #domainName(String)",
  "deprecated" : false,
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  "eventPayload" : false,
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  "fluentEnumSetterMethodName" : null,
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  "fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\n@param domainName The new value for the DomainName property for this object.\n@return Returns a reference to this object so that method calls can be chained together."
, "fluentSetterMethodName" : "domainName",
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    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
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    "marshallLocationName" : "DomainName",
    "queryString" : false,
    "statusCode" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "DomainName",
}
"uri" : true
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"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object.
@param domainName
The new value for the DomainName property for this object.
",
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  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
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  "variableName" : "domainName",
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  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
] },
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    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
This is a convenience that creates an instance of the [String.Builder] avoiding the need to create
one manually via [String.Builder]. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [DomainName(String)].
@deprecated a consumer that will call methods on [String.Builder] returns a reference to this
object so that method calls can be chained together.
@see DomainName(String)",
  "deprecated" : false,
  "documentation" : ","
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"eventPayload" : false,
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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.

@param domainName The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.

@return The value of the DomainName property for this object.",
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  "documentation" : null
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  "additionalUnmarshallingPath" : null,
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  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
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"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object.

@param domainName The new value for the DomainName property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
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  "variableName" : "domainName",
  "variableType" : "String"}
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String.Builder#builder()}.\n\nWhen the { @link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #domainName(String)}.\n\n@deprecated\n\n@see #domainName(String)"
,
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"documentation" : "",
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"eventPayload" : false,
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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\n\n@param domainName The new value for the DomainName property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #domainName(String)"
,
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.\n\n@return The value of the DomainName property for this object.\n\n@see #domainName(String)"
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"getterModel" : {
"returnType" : "String",
"documentation" : null
}
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"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object.
@param domainName
The new value for the DomainName property for this object.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
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  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
] },
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "GetUpgradeStatusRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "GetUpgradeStatusRequest",
  "variableName" : "getUpgradeStatusRequest",
  "variableType" : "GetUpgradeStatusRequest",
  "documentation" : null,
  "simpleType" : "GetUpgradeStatusRequest",
  "variableSetterType" : "GetUpgradeStatusRequest"
},
"wrapper" : false
},
"GetUpgradeStatusResponse" : {
  "c2jName" : "GetUpgradeStatusResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Container for response returned by <code><a>GetUpgradeStatus</a></code> operation.  \</p\>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
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  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [ {
    "beanStyleGetterMethodName" : "getUpgradeStepAsString",
    "beanStyleSetterMethodName" : "setUpgradeStep",
    "c2jName" : "UpgradeStep",
    "c2jShape" : "UpgradeStep",
    "defaultConsumerFluentSetterDocumentation" : "Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: PreUpgradeCheck/Snapshot/Upgrade

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder\(\)\].

When the [Consumer\] completes, [String.Builder\(\#build()\)] is called immediately and its result is passed to [String#upgradeStepAsString(String\)]\n@returns\n\nA consumer that will call methods on [String.Builder\]\n\n\returns\n\nA reference to this object so that
method calls can be chained together.\n@see #upgradeStep(String)",
   "deprecated" : false,
   "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through:
   <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>\n   @param upgradeStep Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>\n   @return Returns a reference to this object so that method calls can be chained together.\n@see UpgradeStep",
   "fluentSetterMethodName" : "upgradeStep",
   "getterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
   @see UpgradeStep
   @return Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
   @see UpgradeStep",
   "getterModel" : {
      "returnType" : "String",
      "documentation" : null
   },
   "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : null,
      "marshallLocation" : "PAYLOAD",
      "marshallLocationName" : "UpgradeStep",
      "queryString" : false,
      "statusCode" : false,
      "unmarshallLocationName" : "UpgradeStep",
      "uri" : false
   },
   "idempotencyToken" : false,
   "isBinary" : false,
   "jsonValue" : false,
   "list" : false,
   "listModel" : null,
   "map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStep",
"setterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>\n@see UpgradeStep",
"setterMethodName" : "setUpgradeStep",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>
@see UpgradeStep",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
]
,"beanStyleGetterMethodName" : "getStepStatusAsString",
"beanStyleSetterMethodName" : "setStepStatus",
"c2jName" : "StepStatus",
"c2jShape" : "UpgradeStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> One of 4 statuses that a step can go through returned as part of the <code>\nGetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>\nThis is a convenience that creates an instance of the [ @link String.Builder ] avoiding the need to create one manually via [ @link String.Builder#builder()]\.\nWhen the [ @link Consumer ] completes, [ @link String.Builder#build() ] is called immediately and its result is passed to [ @link #stepStatusAsString(String) ]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #stepStatus(String)",
"deprecated" : false,
"documentation" : "<p> One of 4 statuses that a step can go through returned as part of the <code>\nGetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>\n"
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "stepStatus",
"fluentEnumSetterMethodName" : "stepStatus",
"fluentGetterMethodName" : "stepStatusAsString",
"fluentSetterMethodName" : "stepStatus",
"getterDocumentation" : "One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>@param stepStatus One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>@return Returns a reference to this object so that method calls can be chained together.@see UpgradeStatus",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StepStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StepStatus",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING"
"name" : "StepStatus",
"setterDocumentation" : "<p> One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> @param stepStatus One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> @see UpgradeStatus",
"setterMethodName" : "setStepStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "stepStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "stepStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpgradeName",
"beanStyleSetterMethodName" : "setUpgradeName",
"c2jName" : "UpgradeName",
"c2jShape" : "UpgradeName",
"defaultConsumerFluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
This is a convenience that creates an instance of the @link String.Builder avoiding the need to create one manually via @link String#builder(). When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #upgradeName(String) a consumer that will call methods on @link String.Builder@return Returns a reference to this object so that method calls can be chained together.@see #upgradeName(String)",
"deprecated" : false,
"documentation" : "<p>A string that describes the update briefly</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeName"
"fluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
@<param upgradeName>
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "upgradeName",
"getterDocumentation" : "<p>A string that describes the update briefly</p>
@return A string that describes the update briefly",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeName",
"setterDocumentation" : "<p>A string that describes the update briefly</p>
@<param upgradeName>
A string that describes the update briefly",
"setterMethodName" : "setUpgradeName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "upgradeName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : "A string that describes the update briefly",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "StepStatus" : {
    "beanStyleGetterMethodName" : "getStepStatusAsString",
    "beanStyleSetterMethodName" : "setStepStatus",
    "c2jName" : "StepStatus",
    "c2jShape" : "UpgradeStatus",
    "defaultConsumerFluentSetterDocumentation" : "One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: In Progress / Succeeded / Succeeded with Issues / Failed

This is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link String.Builder]. When the [ @link String.Builder] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #stepStatusAsString(String)].

When the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #stepStatusAsString(String)].

@see #stepStatusAsString(String)"
  },
  "deprecated" : false,
  "documentation" : "One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: In Progress / Succeeded / Succeeded with Issues / Failed

"enumType" : "UpgradeStatus",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "stepStatus",
  "fluentEnumSetterMethodName" : "stepStatus",
  "fluentGetterMethodName" : "stepStatusAsString",
  "fluentSetterDocumentation" : "One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: In Progress / Succeeded / Succeeded with Issues / Failed

If the service returns an enum value that is not available in the current SDK version, [ @link #stepStatus] will return [ @link UpgradeStatus#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [ @link #stepStatusAsString()].

@see UpgradeStatus

@see #stepStatusAsString()
  },
  "getterDocumentation" : "One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: In Progress / Succeeded / Succeeded with Issues / Failed

if the service returns an enum value that is not available in the current SDK version, [ @link #stepStatus] will return [ @link UpgradeStatus#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [ @link #stepStatusAsString()].

@see UpgradeStatus

@see #stepStatusAsString()
  },
  "deprecated" : false,
  "documentation" : "One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: In Progress / Succeeded / Succeeded with Issues / Failed

"enumType" : "UpgradeStatus",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "stepStatus",
  "fluentEnumSetterMethodName" : "stepStatus",
  "fluentGetterMethodName" : "stepStatusAsString",
  "fluentSetterDocumentation" : "One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: In Progress / Succeeded / Succeeded with Issues / Failed

If the service returns an enum value that is not available in the current SDK version, [ @link #stepStatus] will return [ @link UpgradeStatus#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [ @link #stepStatusAsString()].

@see UpgradeStatus

@see #stepStatusAsString()
  },
  "deprecated" : false,
  "documentation" : "One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: In Progress / Succeeded / Succeeded with Issues / Failed

"enumType" : "UpgradeStatus",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "stepStatus",
  "fluentEnumSetterMethodName" : "stepStatus",
  "fluentGetterMethodName" : "stepStatusAsString",
  "fluentSetterDocumentation" : "One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: In Progress / Succeeded / Succeeded with Issues / Failed

If the service returns an enum value that is not available in the current SDK version, [ @link #stepStatus] will return [ @link UpgradeStatus#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [ @link #stepStatusAsString()].

@see UpgradeStatus

@see #stepStatusAsString()"
<code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>

@see UpgradeStatus,

```
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StepStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StepStatus",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "StepStatus",
"setterDocumentation" : "<p> One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul> One of 4 statuses that a step can go through returned as part of the <code><a>GetUpgradeStatusResponse</a></code> object. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul> </p>

@see UpgradeStatus",

"setterMethodName" : "setStepStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "stepStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
```
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "stepStatus",
  "variableType" : "String",
  "documentation" : "One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul>
  <li>In Progress</li>
  <li>Succeeded</li>
  <li>Succeeded with Issues</li>
  <li>Failed</li>
</ul>
"simpleType" : "String",
"variableSetterType" : "String",
},
"xmlNameSpaceUri" : null
},
"UpgradeName" : {
  "beanStyleGetterMethodName" : "getUpgradeName",
  "beanStyleSetterMethodName" : "setUpgradeName",
  "c2jName" : "UpgradeName",
  "c2jShape" : "UpgradeName",
  "defaultConsumerFluentSetterDocumentation" : "A string that describes the update briefly\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #upgradeName(String)}\n@param upgradeName a consumer that will call methods on { @link String.Builder}\n@see #upgradeName(String)",
  "deprecated" : false,
  "documentation" : "A string that describes the update briefly",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "upgradeName",
  "fluentSetterDocumentation" : "A string that describes the update briefly\nA string that describes the update briefly\n@see #upgradeName(String)",
  "fluentSetterMethodName" : "upgradeName",
  "getterDocumentation" : "A string that describes the update briefly\n@return A string that describes the update briefly",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeName",
"setterDocumentation" : "<p>A string that describes the update briefly</p>@param upgradeName A string that describes the update briefly",
"setterMethodName" : "setUpgradeName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : "<p>A string that describes the update briefly</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpgradeStep" : {
  "beanStyleGetterMethodName" : "getUpgradeStepAsString",
  "beanStyleSetterMethodName" : "setUpgradeStep",
  "c2jName" : "UpgradeStep",
  "c2jShape" : "UpgradeStep",
  "defaultConsumerFluentSetterDocumentation" : "<p>Represents one of 3 steps that an Upgrade or Upgrade
Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()]. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [String#upgradeStepAs(String)].

@see UpgradeStep

Returns a reference to this object so that method calls can be chained together.

@see #upgradeStep(String),

"deprecated" : false,
"documentation" : "Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>

enumType" : "UpgradeStep",
"eventIdHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStep",
"fluentEnumSetterMethodName" : "upgradeStep",
"fluentGetterMethodName" : "upgradeStepAsString",
"fluentSetterDocumentation" : "Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>

If the service returns an enum value that is not available in the current SDK version, [UpgradeStep#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [UpgradeStepAsString].

@see UpgradeStep

@return Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>

getterDocumentation" : "Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>

If the service returns an enum value that is not available in the current SDK version, [UpgradeStep#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [UpgradeStepAsString].

@see UpgradeStep

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStep",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeStep",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStep",
"setterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>SnapShot</li> <li>Upgrade</li> </ul> </p>
@see UpgradeStep",
"setterMethodName" : "setUpgradeStep",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>SnapShot</li> <li>Upgrade</li> </ul> </p>
@see UpgradeStep",
  "simpleType" : "String",
  "variable SetterType" : "String"
},
"xmlNameSpaceUri" : null
]},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getUpgradeStepAsString",
  "beanStyleSetterMethodName" : "setUpgradeStep",
  "c2jName" : "UpgradeStep",
  "c2jShape" : "UpgradeStep",
  "defaultConsumerFluentSetterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>SnapShot</li> <li>Upgrade</li> </ul> </p>
@see upgradeStep(String)",
  "deprecated" : false,
"documentation": "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through:
<ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>
"enumType": "UpgradeStep",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "upgradeStep",
"fluentEnumSetterMethodName": "upgradeStep",
"fluentGetterMethodName": "upgradeStepAsString",
"fluentSetterDocumentation": "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: 
<ul>
<li>PreUpgradeCheck</li>
<li>Snapshot</li>
<li>Upgrade</li>
</ul>

If the service returns an enum value that is not available in the current SDK version, [
@link #upgradeStep] will return [
@link UpgradeStep#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [
@link #upgradeStepAsString]."]

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    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "UpgradeStep",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "UpgradeStep",
    "uri": false
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"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING"}
"name" : "UpgradeStep",
"setterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> n @param upgradeStep Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> n @see UpgradeStep",
"setterMethodName" : "setUpgradeStep",
"setterModel" : {
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  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
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"simple" : true,
"timestampFormat" : null,
"variable" : {
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  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : '<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>',
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStepStatusAsString",
"beanStyleSetterMethodName" : "setStepStatus",
"c2jName" : "StepStatus",
"c2jShape" : "UpgradeStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> One of 4 statuses that a step can go through returned as part of the <code> <a>GetUpgradeStatusResponse</a> </code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> when the [...] completes, [...] is called immediately and its result is passed to [...] a consumer that will call methods on [...] a reference to this object so that method calls can be chained together. n @see #stepStatus(String)",
  "deprecated" : false,
  "documentation" : "<p> One of 4 statuses that a step can go through returned as part of the <code> <a>GetUpgradeStatusResponse</a> </code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "enumType" : "UpgradeStatus",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "stepStatus",
  "fluentEnumSetterMethodName" : "stepStatus"
"fluentGetterMethodName" : "stepStatusAsString",
"fluentSetterDocumentation" : "<p> One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> </p>
@param stepStatus One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>
@see UpgradeStatus
@return Returns a reference to this object so that method calls can be chained together.
@see UpgradeStatus",
"fluentSetterMethodName" : "stepStatus",
"getterDocumentation" : "<p> One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> </p>
<p>If the service returns an enum value that is not available in the current SDK version, @link stepStatus will return {@link UpgradeStatus#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from @link stepStatusAsString.</p>
@return One of 4 statuses that a step can go through returned as part of the <code>GetUpgradeStatusResponse</code> object. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>
@see UpgradeStatus",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
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"http" : {
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  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StepStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StepStatus",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "StepStatus",
"setterDocumentation" : "<p> One of 4 statuses that a step can go through returned as part of the <code>
The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed. In the <code>GetUpgradeStatusResponse</code> object, the status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed.

@see UpgradeStatus
chained together.

"fluentSetterMethodName" : "upgradeName",
"getterDocumentation" : 
"<p>A string that describes the update briefly</p>
@return A string that describes the update briefly",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpgradeName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
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"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeName",
"setterDocumentation" : 
"<p>A string that describes the update briefly</p>
@param upgradeName A string that describes the update briefly",
"setterMethodName" : "setUpgradeName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
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"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
"variableName" : "upgradeName",
"variableType" : "String",
"documentation" : "A string that describes the update briefly",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
} ]

"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
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"unmarshaller" : {
"flattened" : false,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "GetUpgradeStatusResponse",
"variableName" : "getUpgradeStatusResponse",
"variableType" : "GetUpgradeStatusResponse",
"documentation" : null,
"simpleType" : "GetUpgradeStatusResponse",
"variableSetterType" : "GetUpgradeStatusResponse"
},
"wrapper" : false
},
"InstanceCountLimits" : {
"c2jName" : "InstanceCountLimits",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "InstanceCountLimits represents the limits on number of instances that be created in Amazon Elasticsearch for given InstanceType."
"enums" : null,
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"event" : false,
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"explicitEventPayloadMember" : null,
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"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MinimumInstanceCount",
"setterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object.\n@param minimumInstanceCount The new value for the MinimumInstanceCount property for this object.\n
@setter \n@see #minimumInstanceCount\n
setterModel" : {

  "variableDeclarationType" : "Integer",
  "variableName" : "minimumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
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  "variableDeclarationType" : "Integer",
  "variableName" : "minimumInstanceCount",
  "variableType" : "Integer",
  "documentation" : "",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
{  
  "beanStyleGetterMethodName" : "getMaximumInstanceCount",
  "beanStyleSetterMethodName" : "setMaximumInstanceCount",
  "c2jName" : "MaximumInstanceCount",
  "c2jShape" : "MaximumInstanceCount",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.\n
This is a convenience that creates an instance of the \n{@link Integer.Builder} avoiding the need to create
one manually via \n{@link Integer#builder()}.\n
When the \n{@link Consumer} completes, \n{@link 
Integer.Builder#build()} is called immediately and its result is passed to \n{@link 
#maximumInstanceCount(Integer)}.\n
@param maximumInstanceCount a consumer that will call methods on
{@link Integer.Builder}\n@return Returns a reference to this object so that method calls can be chained
together.\n@see #maximumInstanceCount(Integer)",
  "deprecated" : false,
  "documentation" : "",
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  "eventHeader" : false,
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"fluentSetterDocumentation": "Sets the value of the MaximumInstanceCount property for this object.
@param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
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@return The value of the MaximumInstanceCount property for this object.",
"getterModel": {
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  "documentation": null
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  "additionalUnmarshallingPath": null,
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  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "MaximumInstanceCount",
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  "unmarshallLocationName": "MaximumInstanceCount",
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"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "MaximumInstanceCount",
"setterDocumentation": "Sets the value of the MaximumInstanceCount property for this object.
@param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName": "setMaximumInstanceCount",
"setterModel": {
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  "variableName": "maximumInstanceCount",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
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"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "MaximumInstanceCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "MaximumInstanceCount",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaximumInstanceCount",
"setterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.

@param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.",
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  "variableDeclarationType" : "Integer",
  "variableName" : "maximumInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
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"variable" : {
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  "variableName" : "maximumInstanceCount",
  "variableType" : "Integer",
  "documentation" : "",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"MinimumInstanceCount" : {
  "beanStyleGetterMethodName" : "getMinimumInstanceCount",
  "beanStyleSetterMethodName" : "setMinimumInstanceCount",
  "c2jName" : "MinimumInstanceCount"}
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object.\n
This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer#builder()].\n
When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link #minimumInstanceCount(Integer)].\n
@param minimumInstanceCount a consumer that will call methods on [@link Integer.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #minimumInstanceCount(Integer)",

"deprecated" : false,
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"eventPayload" : false,
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"fluentEnumSetterMethodName" : null,
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"fluentSetterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object.\n
@param minimumInstanceCount The new value for the MinimumInstanceCount property for this object.\n@return Returns a reference to this object so that method calls can be chained together."

"getterModel" : {
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    "additionalUnmarshallingPath" : null,
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    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "MinimumInstanceCount",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "MinimumInstanceCount",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "MinimumInstanceCount",
"setterDocumentation": "Sets the value of the MinimumInstanceCount property for this object.

@param minimumInstanceCount The new value for the MinimumInstanceCount property for this object.",
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"setterModel": {
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  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
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"simple": true,
"timestampFormat": null,
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  "variableName": "minimumInstanceCount",
  "variableType": "Integer",
  "documentation": "",
  "simpleType": "Integer",
  "variableSetterType": "Integer"
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"xmlNameSpaceUri": null
},
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      "beanStyleGetterMethodName": "getMinimumInstanceCount",
      "beanStyleSetterMethodName": "setMinimumInstanceCount",
      "c2jName": "MinimumInstanceCount",
      "c2jShape": "MinimumInstanceCount",
      "defaultConsumerFluentSetterDocumentation": "Sets the value of the MinimumInstanceCount property for this object.

This is a convenience that creates an instance of the [Integer.Builder] avoiding the need to create
one manually via [Integer#builder()].

When the [@link Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link #minimumInstanceCount(Integer)].

@deprecated

@see #minimumInstanceCount(Integer)"
    }
  ],
  "deprecated": false,
  "documentation": "",
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  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "minimumInstanceCount",
  "fluentSetterDocumentation": "Sets the value of the MinimumInstanceCount property for this
object.

@param minimumInstanceCount The new value for the MinimumInstanceCount property for this object.
@return Returns a reference to this object so that method calls can be chained together.
    
    "fluentSetterMethodName" : "minimumInstanceCount",
    "getterDocumentation" : "Returns the value of the MinimumInstanceCount property for this object.

The value of the MinimumInstanceCount property for this object.".

"getterModel" : {
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    "documentation" : null
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"http" : {
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    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
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    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "MinimumInstanceCount",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "MinimumInstanceCount",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MinimumInstanceCount",
"setterDocumentation" : "Sets the value of the MinimumInstanceCount property for this object.

@param minimumInstanceCount The new value for the MinimumInstanceCount property for this object.

"setterMethodName" : "setMinimumInstanceCount",
"setterModel" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "minimumInstanceCount",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},

"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "minimumInstanceCount",
"variableType" : "Integer",
"documentation" : "",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getMaximumInstanceCount",
"beanStyleSetterMethodName" : "setMaximumInstanceCount",
"c2jName" : "MaximumInstanceCount",
"c2jShape" : "MaximumInstanceCount",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object. This is a convenience that creates an instance of the [link Integer.Builder] avoiding the need to create one manually via [link Integer#builder()]. When the [link Consumer] completes, [link Integer.Builder#build()] is called immediately and its result is passed to [link #maximumInstanceCount(Integer)].\n\n@signature @param maximumInstanceCount a Consumer that will call methods on [link Integer.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #maximumInstanceCount(Integer)",
"deprecated" : false,
"documentation" : "",
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"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maximumInstanceCount",
"fluentSetterDocumentation" : "Sets the value of the MaximumInstanceCount property for this object.\n\n@signature @param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #maximumInstanceCount(Integer)",
"getterDocumentation" : "Returns the value of the MaximumInstanceCount property for this object.\n\n@return The value of the MaximumInstanceCount property for this object.\n\ngetterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
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"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",}
"marshallLocationName": "MaximumInstanceCount",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "MaximumInstanceCount",
"uri": false
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"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "MaximumInstanceCount",
"setterDocumentation": "Sets the value of the MaximumInstanceCount property for this object.\n\n@param maximumInstanceCount The new value for the MaximumInstanceCount property for this object.",
"setterMethodName": "setMaximumInstanceCount",
"setterModel": {
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  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
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"simple": true,
"timestampFormat": null,
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  "variableName": "maximumInstanceCount",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
},
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "InstanceCountLimits",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {

"variableDeclarationType" : "InstanceCountLimits",
"variableName" : "instanceCountLimits",
"variableType" : "InstanceCountLimits",
"documentation" : null,
"simpleType" : "InstanceCountLimits",
"variableSetterType" : "InstanceCountLimits"
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"wrapper" : false
},
"InstanceLimits" : {
"c2jName" : "InstanceLimits",
"customization" : {
 "artificialResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "InstanceLimits represents the list of instance related attributes that are available for given InstanceType. </p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
 "beanStyleGetterMethodName" : "getInstanceCountLimits",
 "beanStyleSetterMethodName" : "setInstanceCountLimits",
 "c2jName" : "InstanceCountLimits",
 "c2jShape" : "InstanceCountLimits",
 "defaultConsumerFluentSetterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.

This is a convenience that creates an instance of the {@link InstanceCountLimits.Builder} avoiding the need to create one manually via {@link InstanceCountLimits.Builder#builder()}. When the {@link Consumer} completes, {@link InstanceCountLimits.Builder#build()} is called immediately and its result is passed to {@link instanceCountLimits(InstanceCountLimits)}. param instanceCountLimits a consumer that will call methods on {@link InstanceCountLimits.Builder}@return Returns a reference to this object so that method calls can be chained together. @see instanceCountLimits(InstanceCountLimits)",
 "deprecated" : false,
 "documentation" : "",
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 "eventHeader" : false,
"eventPayload" : false,
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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceCountLimits",
"fluentSetterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.\n@param instanceCountLimits The new value for the InstanceCountLimits property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "instanceCountLimits",
"getterDocumentation" : "Returns the value of the InstanceCountLimits property for this object.\n@return The value of the InstanceCountLimits property for this object."
}
,"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceCountLimits",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceCountLimits",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "InstanceCountLimits",
"setterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.\n@param instanceCountLimits The new value for the InstanceCountLimits property for this object."
,"setterMethodName" : "getInstanceCountLimits",
"setterMethod" : {
 "variableDeclarationType" : "InstanceCountLimits",
 "variableName" : "instanceCountLimits",
 "variableType" : "InstanceCountLimits",
 "documentation" : null,
 "simpleType" : "InstanceCountLimits"}
variableSetterType" : "InstanceCountLimits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "InstanceCountLimits",
  "variableName" : "instanceCountLimits",
  "variableType" : "InstanceCountLimits",
  "documentation" : "",
  "simpleType" : "InstanceCountLimits",
  "variableSetterType" : "InstanceCountLimits"
},
"xmlNameSpaceUri" : null
",
"membersAsMap" : {
  "InstanceCountLimits" : {
    "beanStyleGetterMethodName" : "getInstanceCountLimits",
    "beanStyleSetterMethodName" : "setInstanceCountLimits",
    "c2jName" : "InstanceCountLimits",
    "c2jShape" : "InstanceCountLimits",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.
This is a convenience that creates an instance of the {link InstanceCountLimits.Builder} avoiding the need to create one manually via {link InstanceCountLimits#builder()}. When the {link Consumer} completes, {link InstanceCountLimits.Builder#build()} is called immediately and its result is passed to {link
InstanceCountLimits(InstanceCountLimits)}.
@see #instanceCountLimits(InstanceCountLimits)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "instanceCountLimits",
    "fluentSetterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.
@link InstanceCountLimits The new value for the InstanceCountLimits property for this object.
@see #instanceCountLimits(InstanceCountLimits)",
    "getterModel" : {
      "returnType" : "InstanceCountLimits",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceCountLimits",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceCountLimits",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "InstanceCountLimits",
"setterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.

@param instanceCountLimits The new value for the InstanceCountLimits property for this object.",
"setterMethodName" : "setInstanceCountLimits",
"setterModel" : {
    "variableDeclarationType" : "InstanceCountLimits",
    "variableName" : "instanceCountLimits",
    "variableType" : "InstanceCountLimits",
    "documentation" : null,
    "simpleType" : "InstanceCountLimits",
    "variableSetterType" : "InstanceCountLimits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "InstanceCountLimits",
    "variableName" : "instanceCountLimits",
    "variableType" : "InstanceCountLimits",
    "documentation" : "",
    "simpleType" : "InstanceCountLimits",
    "variableSetterType" : "InstanceCountLimits"
},
"xmlNameSpaceUri" : null
}
"beanStyleSetterMethodName" : "setInstanceCountLimits",
"c2jName" : "InstanceCountLimits",
"c2jShape" : "InstanceCountLimits",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.

This is a convenience that creates an instance of the {link InstanceCountLimits.Builder} avoiding the need to create one manually via {link InstanceCountLimits#builder()}. When the {link Consumer} completes, {link InstanceCountLimits.Builder#build()} is called immediately and its result is passed to {link InstanceCountLimits(InstanceCountLimits)}.\n\n@returns {link InstanceCountLimits} a consumer that will call methods on {link InstanceCountLimits.Builder}\n\n@see #instanceCountLimits(InstanceCountLimits),

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceCountLimits",
"fluentSetterDocumentation" : "Sets the value of the InstanceCountLimits property for this object.

When the {link Consumer} completes, {link InstanceCountLimits.Builder#build()} is called immediately and its result is passed to {link InstanceCountLimits(InstanceCountLimits)}.\n\n@returns {link InstanceCountLimits} a consumer that will call methods on {link InstanceCountLimits.Builder}\n\n@see #instanceCountLimits(InstanceCountLimits),

"getterDocumentation" : "Returns the value of the InstanceCountLimits property for this object.

@returns {link InstanceCountLimits} The new value for the InstanceCountLimits property for this object.\n\n@returns {link InstanceCountLimits} a reference to this object so that method calls can be chained together.

@returns {link InstanceCountLimits} The new value for the InstanceCountLimits property for this object.\n\n@returns {link InstanceCountLimits} a reference to this object so that method calls can be chained together.",
"getterModel" : {
  "returnType" : "InstanceCountLimits",
  "documentation" : "null"
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "InstanceCountLimits",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "InstanceCountLimits",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "InstanceCountLimits",
"setterDocumentation": "Sets the value of the InstanceCountLimits property for this object.\n\n@param instanceCountLimits The new value for the InstanceCountLimits property for this object."

"setterMethodName": "setInstanceCountLimits",
"setterModel": {
"variableDeclarationType": "InstanceCountLimits",
"variableName": "instanceCountLimits",
"variableType": "InstanceCountLimits",
"documentation": null,
"simpleType": "InstanceCountLimits",
"variableSetterType": "InstanceCountLimits"
},
"simple": false,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "InstanceCountLimits",
"variableName": "instanceCountLimits",
"variableType": "InstanceCountLimits",
"documentation": null,
"simpleType": "InstanceCountLimits",
"variableSetterType": "InstanceCountLimits"
}
},
"xmlNameSpaceUri": null
},
"requestSignerAware": false,
"requestSignerClassFqn": null,
"required": null,
"shapeName": "InstanceLimits",
"simpleMethod": false,
"unmarshaller": {
"flattened": false,
"resultWrapper": null
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"variable": {
"variableDeclarationType": "InstanceLimits",
"variableName": "instanceLimits",
"variableType": "InstanceLimits",
"documentation": null,
"simpleType": "InstanceLimits",
"variableSetterType": "InstanceLimits"
},
"wrapper": false
},
"InternalException": {

"c2jName" : "InternalException",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>The request processing has failed because of an unknown error, exception or failure (the failure is internal to the service). Gives http status code of 500.</p>",
"enums" : null,
"errorCode" : "InternalException",
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 500,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "InternalException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
"variableDeclarationType" : "InternalException",
"variableName" : "internalException",
"variableType" : "InternalException",
"documentation" : null,
"simpleType" : "InternalException",
"variableSetterType" : "InternalException"
},
"wrapper" : false
},
"InvalidTypeException" : {
"c2jName" : "InvalidTypeException",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0,
"deprecated" : false,
"documentation" : "&lt;p&gt;An exception for trying to create or access sub-resource that is either invalid or not supported. Gives http status code of 409.&lt;/p&gt;",
"enums" : null,
"errorCode" : "InvalidTypeException",
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 409,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "InvalidTypeException",
  "variableName" : "InvalidTypeException",
  "variableType" : "InvalidTypeException",
  "documentation" : null,
  "simpleType" : "InvalidTypeException",
  "variableSetterType" : "InvalidTypeException"
},
"wrapper" : false
},
"LimitExceededException" : {
  "c2jName" : "LimitExceededException",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "&lt;p&gt;An exception for trying to create more than allowed resources or sub-resources. Gives http status code of 409.&lt;/p&gt;",
  "enums" : null,
"errorCode" : "LimitExceededException",
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 409,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "LimitExceededException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "LimitExceededException",
  "variableName" : "limitExceededException",
  "variableType" : "LimitExceededException",
  "documentation" : null,
  "simpleType" : "LimitExceededException",
  "variableSetterType" : "LimitExceededException"
},
"wrapper" : false
},
"Limits" : {
  "c2jName" : "Limits",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p> Limits for given InstanceType and for each of it’s role. <br/> Limits contains following <code> <a>StorageTypes</a>, </code> <code> <a>InstanceLimits</a> </code> and <code> <a>AdditionalLimits</a> </code> </p>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ 
  "beanStyleGetterMethodName" : "getStorageTypes",
  "beanStyleSetterMethodName" : "setStorageTypes",
  "c2jName" : "StorageTypes",
  "c2jShape" : "StorageTypeList",
  "defaultConsumerFluentSetterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>This is a convenience that creates an instance of the
  {@link List<StorageType>.Builder} avoiding the need to create one manually via
  @link
  List<StorageType>#builder().
  When the @link Consumer completes, @link
  List<StorageType>.Builder#build() is called immediately and its result is passed to
  @link
  #storageTypes(List<StorageType>)
  @param storageTypes a consumer that will call methods on
  @link
  List<StorageType>.Builder
  @return Returns a reference to this object so that method calls can be chained
together.

  "deprecated" : false,
  "documentation" : "<p>StorageType represents the list of storage related types and attributes that are available
  for given InstanceType. </p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "storageTypes",
  "fluentSetterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available
  for given InstanceType. </p>
  @param storageTypes StorageType represents the list of storage related types and attributes that are available
  for given InstanceType.
  @return Returns a reference to this object so that method calls can be chained
together.

  "fluentSetterMethodName" : "storageTypes",
  "getterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available
  for given InstanceType. </p>
  @throws java.lang.UnsupportedOperationException
  @return StorageType represents the list of storage related types and attributes that are available
  for given InstanceType.

  "getterModel" : {
    "returnType" : "java.util.List<StorageType>",
    "documentation" : null
  },

  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
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"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "StorageType",
  "variableName" : "member",
  "variableType" : "StorageType",
  "documentation" : null,
  "simpleType" : "StorageType",
  "variableSetterType" : "StorageType"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "StorageType",
  "variableName" : "member",
  "variableType" : "StorageType",
  "documentation" : "",
  "simpleType" : "StorageType",
  "variableSetterType" : "StorageType"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "StorageType",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "StorageType",
"templateImplType" : "java.util.ArrayList<StorageType>",
"templateType" : "java.util.List<StorageType>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StorageTypes",
"setterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>@param storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType.",
"setterMethodName" : "setStorageTypes",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<StorageType>",
  "variableName" : "storageTypes",
  "variableType" : "java.util.List<StorageType>",
  "documentation" : null,
  "simpleType" : "List<StorageType>",
  "variableSetterType" : "java.util.Collection<StorageType>",
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "java.util.List<StorageType>",
    "variableName" : "storageTypes",
    "variableType" : "java.util.List<StorageType>",
    "documentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>
    "simpleType" : "List<StorageType>",
    "variableSetterType" : "java.util.Collection<StorageType>",
  }
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getInstanceLimits",
"beanStyleSetterMethodName" : "setInstanceLimits",
"c2jName" : "InstanceLimits",
"c2jShape" : "InstanceLimits",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the InstanceLimits property for this object.\n\nThis is a convenience that creates an instance of the {@link InstanceLimits.Builder} avoiding the need to create one manually via {@link InstanceLimits.Builder#builder()}.\n\nWhen the {@link Consumer} completes, {@link InstanceLimits.Builder#build()} is called immediately and its result is passed to {@link InstanceLimits} a consumer that will call methods on {@link InstanceLimits.Builder#return Returns a reference to this object so that method calls can be chained together.\n\n@see InstanceLimits(InstanceLimits)",
"deprecated" : false,
"documentation": "", "enumType": null, "eventHeader": false, "eventPayload": false, "fluentEnumGetterMethodName": null, "fluentEnumSetterMethodName": null, "fluentGetterMethodName": "instanceLimits", "fluentSetterMethodName": "instanceLimits", "fluentSetterDocumentation": "Sets the value of the InstanceLimits property for this object.\n\n\n@\n\n@return Returns a reference to this object so that method calls can be chained together.", "fluentSetterMethodName": "instanceLimits", "getterDocumentation": "Returns the value of the InstanceLimits property for this object.\n\n\n@return The value of the InstanceLimits property for this object.", "getterModel": { "returnType": "InstanceLimits", "documentation": null }, "http": { "additionalMarshallingPath": null, "additionalUnmarshallingPath": null, "flattened": false, "greedy": false, "header": false, "isPayload": false, "isStreaming": false, "location": null, "marshallLocation": "PAYLOAD", "marshallLocationName": "InstanceLimits", "queryString": false, "statusCode": false, "unmarshallLocationName": "InstanceLimits", "uri": false }, "idempotencyToken": false, "isBinary": false, "jsonValue": false, "list": false, "listModel": null, "map": false, "mapModel": null, "marshallingType": "SDK_POJO", "name": "InstanceLimits", "setterDocumentation": "Sets the value of the InstanceLimits property for this object.\n\n\n@\n\n@param instanceLimits The new value for the InstanceLimits property for this object.\n\n\n@return Returns a reference to this object so that method calls can be chained together.", "setterMethodName": "setInstanceLimits", "setterModel": { "variableDeclarationType": "InstanceLimits", "variableName": "instanceLimits",}
"variableType" : "InstanceLimits",
"documentation" : null,
"simpleType" : "InstanceLimits",
"variableSetterType" : "InstanceLimits"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "InstanceLimits",
"variableName" : "instanceLimits",
"variableType" : "InstanceLimits",
"documentation" : "",
"simpleType" : "InstanceLimits",
"variableSetterType" : "InstanceLimits"
},
"xmlNameSpaceUri" : null
],
{

"beanStyleGetterMethodName" : "getAdditionalLimits",
"beanStyleSetterMethodName" : "setAdditionalLimits",
"c2jName" : "AdditionalLimits",
"c2jShape" : "AdditionalLimitList",
"defaultConsumerFluentSetterDocumentation" : "<p>List of additional limits that are specific to a given
InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>. This is a convenience that creates an
instance of the {@link List&lt;AdditionalLimit&gt;#builder()} avoiding the need to create one manually via {
@link List&lt;AdditionalLimit&gt;#builder()}.
When the {@link Consumer} completes, {
@link List&lt;AdditionalLimit&gt;#build()} is called immediately and its result is passed to {
@link List&lt;AdditionalLimit&gt;#additionalLimits(List&lt;AdditionalLimit&gt;)}.
param additionalLimits a consumer that will call methods on {
@link List&lt;AdditionalLimit&gt;#builder()}.
@return Returns a reference to this object so that method calls can be
chained together.
@see #additionalLimits(List&lt;AdditionalLimit&gt;)",
"deprecated" : false,
"documentation" : "List of additional limits that are specific to a given InstanceType and for each of it's
<code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>.

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "additionalLimits",
"fluentSetterDocumentation" : "List of additional limits that are specific to a given InstanceType and for each of it's
<code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>. Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
@return List of additional limits that are specific to a given
InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>.
"getterDocumentation" : "List of additional limits that are specific to a given InstanceType and for each of it's
<code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>. Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.
@return List of additional limits that are specific to a given
InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>."
"getterModel" : {
calls can be chained together.

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of
the Member property for this object."

"getterModel" : {
    "returnType" : "AdditionalLimit",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n@param member The new
value for the Member property for this object."
"setterMethodName" : "setMember",
"setterModel" : {
    "variableDeclarationType" : "AdditionalLimit",
    "variableName" : "member",
    "variableType" : "AdditionalLimit",
    "documentation" : null,
    "simpleType" : "AdditionalLimit",
    "variableSetterType" : "AdditionalLimit"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "AdditionalLimit"
"variableName" : "member",
"variableType" : "AdditionalLimit",
"documentation" : "",
"simpleType" : "AdditionalLimit",
"variableSetterType" : "AdditionalLimit"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "AdditionalLimit",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "AdditionalLimit",
"templateImplType" : "java.util.ArrayList<AdditionalLimit>",
"templateType" : "java.util.List<AdditionalLimit>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "AdditionalLimits",
"setterDocumentation" : "<p> List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> . </p>
@param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> .",
"setterMethodName" : "setAdditionalLimits",
"setterModel" : {
 "variableDeclarationType" : "java.util.List<AdditionalLimit>",
 "variableName" : "additionalLimits",
 "variableType" : "java.util.List<AdditionalLimit>",
 "documentation" : null,
 "simpleType" : "List<AdditionalLimit>",
 "variableSetterType" : "java.util.Collection<AdditionalLimit>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "java.util.List<AdditionalLimit>",
 "variableName" : "additionalLimits",
 "variableType" : "java.util.List<AdditionalLimit>",
 "documentation" : "<p> List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> . </p>",
 "simpleType" : "List<AdditionalLimit>",
 "variableSetterType" : "java.util.Collection<AdditionalLimit>"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
}
"AdditionalLimits" : {
  "beanStyleGetterMethodName" : "getAdditionalLimits",
  "beanStyleSetterMethodName" : "setAdditionalLimits",
  "c2jName" : "AdditionalLimits",
  "c2jShape" : "AdditionalLimitList",
  "defaultConsumerFluentSetterDocumentation" : "<p>List of additional limits that are specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>. This is a convenience that creates an instance of the { @link List&lt;AdditionalLimit&gt; }<br> When the { @link List&lt;AdditionalLimit&gt;#builder() } is called immediately and its result is passed to { @link List&lt;AdditionalLimit&gt;#builder() }.<br><br>@param additionalLimits a consumer that will call methods on { @link List&lt;AdditionalLimit&gt;#builder() }<br>@return Returns a reference to this object so that method calls can be chained together.<br><br>"deprecated" : false,
  "documentation" : "List of additional limits that are specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>."
  
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "additionalLimits",
  "fluentSetterDocumentation" : 
  "List of additional limits that are specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>.<br>@param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>.<br>@return Returns a reference to this object so that method calls can be chained together."
  
  "fluentSetterMethodName" : "additionalLimits",
  "getterDocumentation" : "List of additional limits that are specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.<br>@return List of additional limits that are specific to a given InstanceType and for each of it's <code>&lt;a&gt;InstanceRole&lt;/a&gt;</code>.",
  "getterModel" : {
    "returnType" : "java.util.List&lt;AdditionalLimit&gt;",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "AdditionalLimits",
    "queryString" : false,
    "statusCode" : false,
    "statusString" : false,
"unmarshallLocationName" : "AdditionalLimits",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "AdditionalLimit",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the
{@link AdditionalLimit.Builder} avoiding the need
to create one manually via
{@link AdditionalLimit.Builder#builder()}. When the
{@link Consumer} completes, {@link AdditionalLimit.Builder#build()}
is called immediately and its result is passed to
{@link AdditionalLimit.Builder#member(AdditionalLimit)}
@param member a consumer that will call methods on
{@link AdditionalLimit.Builder}
@return Returns a reference to this object so that method calls can be chained
together. @see #member(AdditionalLimit)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls
can be chained together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.",
  "getterModel" : {
    "returnType" : "AdditionalLimit",
    "documentation" : null
  },
  "http" : {
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    "additionalUnmarshallingPath" : null,
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    "isPayload" : false,
    "isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.
",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "AdditionalLimit",
  "variableName" : "member",
  "variableType" : "AdditionalLimit",
  "documentation" : null,
  "simpleType" : "AdditionalLimit",
  "variableSetterType" : "AdditionalLimit"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AdditionalLimit",
  "variableName" : "member",
  "variableType" : "AdditionalLimit",
  "documentation" : "",
  "simpleType" : "AdditionalLimit",
  "variableSetterType" : "AdditionalLimit"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "AdditionalLimit",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "AdditionalLimit",
"templateImplType" : "java.util.ArrayList<AdditionalLimit>"
"templateType": "java.util.List<AdditionalLimit>"},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "AdditionalLimits",
"setterDocumentation": "\p> List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> .
@param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> .",
"setterMethodName": "setAdditionalLimits",
"setterModel": {
  "variableDeclarationType": "java.util.List<AdditionalLimit>",
  "variableName": "additionalLimits",
  "variableType": "java.util.List<AdditionalLimit>",
  "documentation": null,
  "simpleType": "List<AdditionalLimit>",
  "variableSetterType": "java.util.Collection<AdditionalLimit>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<AdditionalLimit>",
  "variableName": "additionalLimits",
  "variableType": "java.util.List<AdditionalLimit>",
  "documentation": "\p> List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> ."
},
"xmlNameSpaceUri": null
},

"InstanceLimits": {
  "beanStyleGetterMethodName": "getInstanceLimits",
  "beanStyleSetterMethodName": "setInstanceLimits",
  "c2jName": "InstanceLimits",
  "c2jShape": "InstanceLimits",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the InstanceLimits property for this object. This is a convenience that creates an instance of the [@link InstanceLimits.Builder] avoiding the need to create one manually via [@link InstanceLimits#builder()]. When the [@link Consumer] completes, [@link InstanceLimits.Builder#build()] is called immediately and its result is passed to [@link InstanceLimits(InstanceLimits)].
@param instanceLimits a consumer that will call methods on [@link InstanceLimits.Builder] @return Returns a reference to this object so that method calls can be chained together.@see #:InstanceLimits(InstanceLimits)"
},
"deprecated": false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "instanceLimits",
"fluentSetterDocumentation" : "Sets the value of the InstanceLimits property for this object.

@param instanceLimits The new value for the InstanceLimits property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "instanceLimits",
"getterDocumentation" : "Returns the value of the InstanceLimits property for this object.

@return The value of the InstanceLimits property for this object.",
"getterModel" : {
"returnType" : "InstanceLimits",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "InstanceLimits",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "InstanceLimits",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "InstanceLimits",
"setterDocumentation" : "Sets the value of the InstanceLimits property for this object.

@param instanceLimits The new value for the InstanceLimits property for this object.

@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setInstanceLimits",
"setterModel" : {
"variableDeclarationType" : "InstanceLimits",
"variableName" : "instanceLimits",
"variableType" : "InstanceLimits",
"documentation" : null,
"simpleType" : "InstanceLimits",
"variableSetterType" : "InstanceLimits"
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "InstanceLimits",
  "variableName" : "instanceLimits",
  "variableType" : "InstanceLimits",
  "documentation" : "",
  "simpleType" : "InstanceLimits",
  "variableSetterType" : "InstanceLimits"
},
"xmlNameSpaceUri" : null
},
"StorageTypes" : {
  "beanStyleGetterMethodName" : "getStorageTypes",
  "beanStyleSetterMethodName" : "setStorageTypes",
  "c2jName" : "StorageTypes",
  "c2jShape" : "StorageTypeList",
  "defaultConsumerFluentSetterDocumentation" : "StorageType represents the list of storage related types and attributes that are available for given InstanceType. This is a convenience that creates an instance of the \{ @link List<StorageType>.Builder\} avoiding the need to create one manually via \{ @link List<StorageType>#builder()\}. When the \{ @link Consumer\} completes, \{ @link List<StorageType>.Builder#build()\} is called immediately and its result is passed to \{ @link #storageTypes(List<StorageType>)\}. \@param storageTypes a consumer that will call methods on \{ @link List<StorageType>.Builder\} \@return Returns a reference to this object so that method calls can be chained together.\@see #storageTypes(List<StorageType>)",
  "deprecated" : false,
  "documentation" : "StorageType represents the list of storage related types and attributes that are available for given InstanceType. \"",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "null",
  "fluentEnumSetterMethodName" : "null",
  "fluentGetterMethodName" : "storageTypes",
  "fluentSetterDocumentation" : "StorageType represents the list of storage related types and attributes that are available for given InstanceType. \nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n\n@Param storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType.\n\n\n@return StorageType represents the list of storage related types and attributes that are available for given InstanceType.\n",
  "fluentSetterMethodName" : "storageTypes",
  "getterDocumentation" : "StorageType represents the list of storage related types and attributes that are available for given InstanceType.\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n\n@Param storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType.\n",
  "getterModel" : {
    "returnType" : "java.util.List<StorageType>",
    "documentation" : null
  }
}
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "StorageTypes",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "StorageTypes",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : true,
"listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
        "beanStyleGetterMethodName" : "getMember",
        "beanStyleSetterMethodName" : "setMember",
        "c2jName" : "member",
        "c2jShape" : "StorageType",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the [{StorageType.Builder} avoiding the need to
create one manually via {StorageType.Builder}().\n\nWhen the [{Consumer} completes, {StorageType.Builder}()} is called immediately and its result is passed to
{member(StorageType)}.\n\n@see #member(StorageType)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(StorageType)",
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@see #member(StorageType)",
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
        "beanStyleGetterMethodName" : "getMember",
        "beanStyleSetterMethodName" : "setMember",
        "c2jName" : "member",
        "c2jShape" : "StorageType",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the [{StorageType.Builder} avoiding the need to
create one manually via {StorageType.Builder}().\n\nWhen the [{Consumer} completes, {StorageType.Builder}()} is called immediately and its result is passed to
{member(StorageType)}.\n\n@see #member(StorageType)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(StorageType)",
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@see #member(StorageType)",
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
        "beanStyleGetterMethodName" : "getMember",
        "beanStyleSetterMethodName" : "setMember",
        "c2jName" : "member",
        "c2jShape" : "StorageType",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the [{StorageType.Builder} avoiding the need to
create one manually via {StorageType.Builder}().\n\nWhen the [{Consumer} completes, {StorageType.Builder}()} is called immediately and its result is passed to
{member(StorageType)}.\n\n@see #member(StorageType)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(StorageType)",
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@see #member(StorageType)"}
the Member property for this object.

"getterModel" : {
    "returnType" : "StorageType",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "SDK_POJO",

"name" : "Member",

"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.

"setterMethodName" : "setMember",

"setterModel" : {
    "variableDeclarationType" : "StorageType",
    "variableName" : "member",
    "variableType" : "StorageType",
    "documentation" : null,
    "simpleType" : "StorageType",
    "variableSetterType" : "StorageType"
},

"simple" : false,

"timestampFormat" : null,

"variable" : {
    "variableDeclarationType" : "StorageType",
    "variableName" : "member",
    "variableType" : "StorageType",
    "documentation" : "",
    "simpleType" : "StorageType",
    "variableSetterType" : "StorageType"
}
"simpleType" : "StorageType",
"variableSetterType" : "StorageType"
},
"xmlNameSpaceUri" : null
],
"memberLocationName" : null,
"memberType" : "StorageType",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "StorageType",
"templateImplType" : "java.util.ArrayList<StorageType>",
"templateType" : "java.util.List<StorageType>"
].
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StorageTypes",
"setterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>
@param storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType."
"setterMethodName" : "setStorageTypes",
"setterModel" : {
"variableDeclarationType" : "java.util.List<StorageType>",
"variableName" : "storageTypes",
"variableType" : "java.util.List<StorageType>",
"documentation" : null,
"simpleType" : "List<StorageType>",
"variableSetterType" : "java.util.Collection<StorageType>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<StorageType>",
"variableName" : "storageTypes",
"variableType" : "java.util.List<StorageType>",
"documentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>
",
"simpleType" : "List<StorageType>",
"variableSetterType" : "java.util.Collection<StorageType>"
},
"xmlNameSpaceUri" : null
}.

"nonStreamingMembers" : []
"beanStyleGetMethodName" : "getStorageTypes",
"beanStyleSetterMethodName" : "setStorageTypes",
"xmlNameSpaceUri" : null
}.
"c2jName" : "StorageTypes",
"c2jShape" : "StorageTypeList",
"defaultConsumerFluentSetterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. This is a convenience that creates an instance of the [{@link List<StorageType>.Builder} avoiding the need to create one manually via [{@link List<StorageType>#builder()}].

When the {@link Consumer} completes, [{@link List<StorageType>.Builder#build()}] is called immediately and its result is passed to [{@link #storageTypes(List<StorageType>)}].

@link #storageTypes(List<StorageType>)

When the [{@link Consumer} completes, [{@link List<StorageType>.Builder#build()}] is called immediately and its result is passed to [{@link #storageTypes(List<StorageType>)}].

@link #storageTypes(List<StorageType>)

Returns a reference to this object so that method calls can be chained together.

@link #storageTypes(List<StorageType>)

Returns a reference to this object so that method calls can be chained together.

@link #storageTypes(List<StorageType>)

Returns a reference to this object so that method calls can be chained together.

@link #storageTypes(List<StorageType>)

Returns a reference to this object so that method calls can be chained together.

@link #storageTypes(List<StorageType>)

Returns a reference to this object so that method calls can be chained together.

@link #storageTypes(List<StorageType>)

"deprecated" : false,
"documentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. 

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "storageTypes",
"fluentSetterMethodName" : "storageTypes",
"getterDocumentation" : "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. </p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return StorageType represents the list of storage related types and attributes that are available for given InstanceType.

"getterModel" : {
    "returnType" : "java.util.List<StorageType>",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "StorageTypes",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "StorageTypes",
    "uri" : false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "StorageType",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object. This is a convenience that creates an instance of the { @link StorageType.Builder} avoiding the need to create one manually via { @link StorageType#builder()} When the { @link Consumer} completes, { @link StorageType.Builder#build()} is called immediately and its result is passed to { @link StorageType#member(StorageType)}.\n\n@see StorageType.Builder\n\n@param member a consumer that will call methods on { @link StorageType.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(StorageType)",
  "deprecated": false,
  "documentation": "",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "member",
  "fluentSetterDocumentation": "Sets the value of the Member property for this object. The new value for the Member property for this object.\n\n@see StorageType.Builder\n\n@return Returns a reference to this object so that method calls can be chained together.".
  "fluentSetterMethodName": "member",
  "getterDocumentation": "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object."
  "getterModel": {
    "returnType": "StorageType",
    "documentation": null
  }},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "member"}
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "StorageType",
  "variableName" : "member",
  "variableType" : "StorageType",
  "documentation" : null,
  "simpleType" : "StorageType",
  "variableSetterType" : "StorageType"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "StorageType",
  "variableName" : "member",
  "variableType" : "StorageType",
  "documentation" : "",
  "simpleType" : "StorageType",
  "variableSetterType" : "StorageType"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "StorageType",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "StorageType",
"templateImplType" : "java.util.ArrayList<StorageType>",
"templateType" : "java.util.List<StorageType>"
"mapModel": null,
"marshallingType": "LIST",
"name": "StorageTypes",
"setterDocumentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. 
@param storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType.
</p>
@param storageTypes StorageType represents the list of storage related types and attributes that are available for given InstanceType.
",
"setterMethodName": "setStorageTypes",
"setterModel": {
  "variableDeclarationType": "java.util.List<StorageType>",
  "variableName": "storageTypes",
  "variableType": "java.util.List<StorageType>",
  "documentation": null,
  "simpleType": "List<StorageType>",
  "variableSetterType": "java.util.Collection<StorageType>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<StorageType>",
  "variableName": "storageTypes",
  "variableType": "java.util.List<StorageType>",
  "documentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. 
</p>
"variableType": "java.util.List<StorageType>",
  "documentation": "<p>StorageType represents the list of storage related types and attributes that are available for given InstanceType. 
</p>
"simple": "List<StorageType>",
  "variableSetterType": "java.util.Collection<StorageType>",
  "xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getInstanceLimits",
"beanStyleSetterMethodName": "setInstanceLimits",
"c2jName": "InstanceLimits",
"c2jShape": "InstanceLimits",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the InstanceLimits property for this object. 

This is a convenience that creates an instance of the [InstanceLimits.Builder] avoiding the need to create one manually via [InstanceLimits.builder()]. When the [Consumer] completes, [InstanceLimits.Builder.build()] is called immediately and its result is passed to [InstanceLimits(InstanceLimits)].

@see InstanceLimits(InstanceLimits)",
  "deprecated": false,
  "documentation": "",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "instanceLimits",
  "fluentSetterDocumentation": "Sets the value of the InstanceLimits property for this object.

@see InstanceLimits(InstanceLimits)"}
instanceLimits The new value for the InstanceLimits property for this object.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "instanceLimits",
"getterDocumentation" : "Returns the value of the InstanceLimits property for this object.

@return The value of the InstanceLimits property for this object.

"getterModel" : {
   "returnType" : "InstanceLimits",
   "documentation" : null
},

"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "InstanceLimits",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "InstanceLimits",
   "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "InstanceLimits",
"setterDocumentation" : "Sets the value of the InstanceLimits property for this object.

@param instanceLimits The new value for the InstanceLimits property for this object.".

"setterMethodName" : "setInstanceLimits",
"setterModel" : {
   "variableDeclarationType" : "InstanceLimits",
   "variableName" : "instanceLimits",
   "variableType" : "InstanceLimits",
   "documentation" : null,
   "simpleType" : "InstanceLimits",
   "variableSetterType" : "InstanceLimits"
},

"simple" : false,
"timestampFormat" : null,
"variable" : {

"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AdditionalLimits",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AdditionalLimits",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "AdditionalLimit",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the {@link AdditionalLimit.Builder} avoiding the need to create one manually via {@link AdditionalLimit.Builder#builder()}. When the {@link Consumer} completes, {@link AdditionalLimit.Builder#build()} is called immediately and its result is passed to {@link #member(AdditionalLimit)}.
@param member a consumer that will call methods on {@link AdditionalLimit.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #member(AdditionalLimit)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetMethodterName" : null,
"fluentEnumSetterGetMethodterName" : null,
"fluentGetMethodterName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterGetMethodterName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.",
"getterModel" : {
"returnType" : "AdditionalLimit",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "AdditionalLimit",
  "variableName" : "member",
  "variableType" : "AdditionalLimit",
  "documentation" : null,
  "simpleType" : "AdditionalLimit",
  "variableSetterType" : "AdditionalLimit"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "AdditionalLimit",
  "variableName" : "member",
  "variableType" : "AdditionalLimit",
  "documentation" : "",
  "simpleType" : "AdditionalLimit",
  "variableSetterType" : "AdditionalLimit"
},
"xmlnsSpaceUri" : null
}
"memberLocationName" : null,
"memberType" : "AdditionalLimit",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "AdditionalLimit",
"templateImplType" : "java.util.ArrayList<AdditionalLimit>",
"templateType" : "java.util.List<AdditionalLimit>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "AdditionalLimits",
"setterDocumentation" : "List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> .
@param additionalLimits List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> .",
"setterMethodName" : "setAdditionalLimits",
"setterModel" : {
"variableDeclarationType" : "java.util.List<AdditionalLimit>",
"variableName" : "additionalLimits",
"variableType" : "java.util.List<AdditionalLimit>",
"documentation" : null,
"simpleType" : "List<AdditionalLimit>",
"variableSetterType" : "java.util.Collection<AdditionalLimit>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<AdditionalLimit>",
"variableName" : "additionalLimits",
"variableType" : "java.util.List<AdditionalLimit>",
"documentation" : "List of additional limits that are specific to a given InstanceType and for each of it's <code> <a>InstanceRole</a> </code> .",
"simpleType" : "List<AdditionalLimit>",
"variableSetterType" : "java.util.Collection<AdditionalLimit>"
},
"xmlNameSpaceUri" : null
] },
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : null,
"shapeName" : "Limits",
"simpleMethod" : false,
"unmarshallers" : {
"flattened" : false,
"resultWrapper" : null
}. 

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"variable" : {
    "variableDeclarationType" : "Limits",
    "variableName" : "limits",
    "variableType" : "Limits",
    "documentation" : null,
    "simpleType" : "Limits",
    "variableSetterType" : "Limits"
},
"wrapper" : false
},
"ListDomainNamesRequest" : {
    "c2jName" : "ListDomainNamesRequest",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : null,
    "enums" : null,
    "errorCode" : null,
    "event" : false,
    "eventStream" : false,
    "explicitEventPayloadMember" : null,
    "hasHeaderMember" : false,
    "hasPayloadMember" : false,
    "hasStatusCodeMember" : false,
    "hasStreamingMember" : false,
    "httpStatusCode" : null,
    "marshaller" : {
        "action" : "ListDomainNames",
        "locationName" : null,
        "requestUri" : "/2015-01-01/domain",
        "target" : null,
        "verb" : "GET",
        "xmlNameSpaceUri" : null
    },
    "members" : [ ],
    "membersAsMap" : { },
    "nonStreamingMembers" : [ ],
    "requestSignerAware" : false,
    "requestSignerClassFqcn" : null,
    "required" : null,
    "shapeName" : "ListDomainNamesRequest",
    "simpleMethod" : true,
    "unmarshaller" : null,
"variable" : { "variableDeclarationType" : "ListDomainNamesRequest", "variableName" : "listDomainNamesRequest", "variableType" : "ListDomainNamesRequest", "documentation" : null, "simpleType" : "ListDomainNamesRequest", "variableSetterType" : "ListDomainNamesRequest" }, "wrapper" : false }, "ListDomainNamesResponse" : { "c2jName" : "ListDomainNamesResponse", "customization" : { "artificialResultWrapper" : null, "skipGeneratingMarshaller" : false, "skipGeneratingModelClass" : false, "skipGeneratingUnmarshaller" : false, "staxTargetDepthOffset" : 0 }, "deprecated" : false, "documentation" : "&lt;p&gt;The result of a &lt;code&gt;ListDomainNames&lt;/code&gt; operation. Contains the names of all Elasticsearch domains owned by this account.&lt;/p&gt;", "enums" : null, "errorCode" : null, "event" : false, "eventStream" : false, "explicitEventPayloadMember" : null, "hasHeaderMember" : false, "hasPayloadMember" : false, "hasStatusCodeMember" : false, "hasStreamingMember" : false, "httpStatusCode" : null, "marshaller" : null, "members" : [ { "beanStyleGetterMethodName" : "getDomainNames", "beanStyleSetterMethodName" : "setDomainNames", "c2jName" : "DomainNames", "c2jShape" : "DomainInfoList", "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;List of Elasticsearch domain names.&lt;/p&gt;"\nThe convenience that creates an instance of the \{ @link List&lt;DomainInfo&gt;\}.\nWhen the \{ @link Consumer\} completes, \{ @link List&lt;DomainInfo&gt;\}.\nBuilder#build() is called immediately and its result is passed to \{ @link List#domainNames(List&lt;DomainInfo&gt;)\}.\n@throws param domainNames a consumer that will call methods on \{ @link List&lt;DomainInfo&gt;\}.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #domainNames(List&lt;DomainInfo&gt;)", "deprecated" : false, "documentation" : "&lt;p&gt;List of Elasticsearch domain names.&lt;/p&gt;", "enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainNames",
"fluentSetterDocumentation" : "<p>List of Elasticsearch domain names.<br/>
@return Returns a reference to this object so that method calls can be chained
together.",
"fluentSetterMethodName" : "domainNames",
"getterDocumentation" : "<p>List of Elasticsearch domain names.<br/>
Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.<br/>
@returns List of
Elasticsearch domain names.",
"getterModel" : {
   "returnType" : "java.util.List<DomainInfo>",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "DomainNames",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "DomainNames",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
   "implType" : "java.util.ArrayList",
   "interfaceType" : "java.util.List",
   "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object.<br/>
This is a convenience that creates an instance of the
{@link DomainInfo.Builder} avoiding the need to
create one manually via {@link DomainInfo.Builder()}.<br/>
@returns When the {@link Consumer} completes, {@link
DomainInfo.Builder#build()} is called immediately and its result is passed to
@link
#member(DomainInfo))

@see #member(DomainInfo)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@see #member(DomainInfo)

The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

@see #member(DomainInfo)

"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.

"getterModel" : {
  "returnType" : "DomainInfo",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@see #member(DomainInfo)

The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

@see #member(DomainInfo)"
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "DomainInfo",
  "variableName" : "member",
  "variableType" : "DomainInfo",
  "documentation" : null,
  "simpleType" : "DomainInfo",
  "variableSetterType" : "DomainInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "DomainInfo",
  "variableName" : "member",
  "variableType" : "DomainInfo",
  "documentation" : null,
  "simpleType" : "DomainInfo",
  "variableSetterType" : "DomainInfo"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "DomainInfo",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "DomainInfo",
"templateImplType" : "java.util.ArrayList<DomainInfo>",
"templateType" : "java.util.List<DomainInfo>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainNames",
"setterDocumentation" : "<p>List of Elasticsearch domain names.</p>
@param domainNames List of Elasticsearch domain names.",
"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : null,
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.List<DomainInfo>",
    "variableName" : "domainNames",
    "variableType" : "java.util.List<DomainInfo>",
    "documentation" : "<p>List of Elasticsearch domain names.</p>",
    "simpleType" : "List<DomainInfo>",
    "variableSetterType" : "java.util.Collection<DomainInfo>",
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
    "DomainNames" : {
        "beanStyleGetterMethodName" : "getDomainNames",
        "beanStyleSetterMethodName" : "setDomainNames",
        "c2jName" : "DomainNames",
        "c2jShape" : "DomainInfoList",
        "defaultConsumerFluentSetterDocumentation" : "<p>List of Elasticsearch domain names.</p>
This is a convenience that creates an instance of the { @link List<DomainInfo>}.Builder avoiding the need to create one manually via { @link List<DomainInfo>#builder()}. When the { @link Consumer} completes, { @link List<DomainInfo>.Builder#build()} is called immediately and its result is passed to { @link List<DomainInfo>}.Builder#build() a consumer that will call methods on { @link List<DomainInfo>}.Builder.\n\n@see #domainNames(List<DomainInfo>)",
        "deprecated" : false,
        "documentation" : "<p>List of Elasticsearch domain names.</p>",
        "enumType" : null,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : null,
        "fluentEnumSetterMethodName" : null,
        "fluentGetterMethodName" : "domainNames",
        "fluentSetterDocumentation" : "<p>List of Elasticsearch domain names.</p>
@param domainNames List of Elasticsearch domain names.
@return Returns a reference to this object so that method calls can be chained together.
@see #domainNames(List<DomainInfo>)",
        "fluentSetterMethodName" : "domainNames",
        "getterDocumentation" : "<p>List of Elasticsearch domain names.</p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@returns List of Elasticsearch domain names.
"getterModel" : {
    "returnType" : "java.util.List<DomainInfo>",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainNames",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainNames",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "DomainInfo",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the \n[@link DomainInfo.Builder] avoiding the need to create one manually via \n[@link DomainInfo.Builder()].\nWhen the [@link Consumer] completes, \n[@link DomainInfo.Builder#build()] is called immediately and its result is passed to \n[@link DomainInfo.Builder].\n@see \n DomainInfo.Builder\n\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(DomainInfo)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see \n DomainInfo.Builder\n\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(DomainInfo)",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n\n@see #member(DomainInfo)",
    "getterModel" : {
      "returnType" : "DomainInfo",
      "documentation" : null
    },
    "http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
"variableDeclarationType" : "DomainInfo",
"variableName" : "member",
"variableType" : "DomainInfo",
"documentation" : null,
"simpleType" : "DomainInfo",
"variableSetterType" : "DomainInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "DomainInfo",
"variableName" : "member",
"variableType" : "DomainInfo",
"documentation" : "",
"simpleType" : "DomainInfo",
"variableSetterType" : "DomainInfo"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "DomainInfo",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "DomainInfo",
"templateImplType" : "java.util.ArrayList<DomainInfo>",
"templateType" : "java.util.List<DomainInfo>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainNames",
"setterDocumentation" : "List of Elasticsearch domain names.

@param domainNames List of Elasticsearch domain names.

"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : null,
  "simpleType" : "List<DomainInfo>",
  "variableSetterType" : "java.util.Collection<DomainInfo>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : "List of Elasticsearch domain names.

@param domainNames List of Elasticsearch domain names.

@return Returns a reference to this object so that method calls can be chained.

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getDomainNames",
  "beanStyleSetterMethodName" : "setDomainNames",
  "c2jName" : "DomainNames",
  "c2jShape" : "DomainInfoList",
  "defaultConsumerFluentSetterDocumentation" : "List of Elasticsearch domain names.

This is a convenience that creates an instance of the {link List<DomainInfo>.Builder} avoiding the need to create one manually via {link List<DomainInfo>#builder()}. When the {link Consumer} completes, {link List<DomainInfo>.Builder#build()} is called immediately and its result is passed to {link #domainNames(List<DomainInfo>)}. 

@param domainNames a consumer that will call methods on {link List<DomainInfo>.Builder}.

@return Returns a reference to this object so that method calls can be chained..."}]}
@see #domainNames(List<DomainInfo>),
"deprecated" : false,
"documentation" : "<p>List of Elasticsearch domain names.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainNames",
"fluentSetterDocumentation" : "<p>List of Elasticsearch domain names.</p>
@param domainNames List of Elasticsearch domain names.
@return Returns a reference to this object so that method calls can be chained
together.",
"fluentSetterMethodName" : "domainNames",
"getterDocumentation" : "<p>List of Elasticsearch domain names.</p>
<p>
Attempts to modify the
collection returned by this method will result in an UnsupportedOperationException.</p>
@return List of Elasticsearch domain names.",
"getterModel" : {
   "returnType" : "java.util.List<DomainInfo>",
   "documentation" : null
 },
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "DomainNames",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "DomainNames",
   "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
   "implType" : "java.util.ArrayList",
   "interfaceType" : "java.util.List",
   "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "c2jShape" : "DomainInfo",
      "c2jName" : "member",
      "c2jShape" : "DomainInfo"}
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [DomainInfo.Builder] avoiding the need to create one manually via DomainInfo.Builder(). When the [Consumer] completes, DomainInfo.Builder.build() is called immediately and its result is passed to DomainInfo.Builder a consumer that will call methods on DomainInfo.

@throws Exception
@see #member(DomainInfo)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@throws Exception
@see #member(DomainInfo)",
  "getterDocumentation" : "Returns the value of the Member property for this object.

The value of the Member property for this object.

@throws Exception
@see #member(DomainInfo)",
  "getterModel" : {
    "returnType" : "DomainInfo",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "DomainInfo",
  "variableName" : "member",
  "variableType" : "DomainInfo",
  "documentation" : null,
  "simpleType" : "DomainInfo",
  "variableSetterType" : "DomainInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "DomainInfo",
  "variableName" : "member",
  "variableType" : "DomainInfo",
  "documentation" : null,
  "simpleType" : "DomainInfo",
  "variableSetterType" : "DomainInfo"
},
"xmlnsNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "DomainInfo",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "DomainInfo",
"templateImplType" : "java.util.ArrayList<DomainInfo>",
"templateType" : "java.util.List<DomainInfo>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "DomainNames",
"setterDocumentation" : "List of Elasticsearch domain names.

@param domainNames List of Elasticsearch domain names."

"setterMethodName" : "setDomainNames",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<DomainInfo>",
  "variableName" : "domainNames",
  "variableType" : "java.util.List<DomainInfo>",
  "documentation" : null,
  "simpleType" : "List<DomainInfo>"
"variableSetterType" : "java.util.Collection<DomainInfo>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "java.util.List<DomainInfo>",
 "variableName" : "domainNames",
 "variableType" : "java.util.List<DomainInfo>",
 "documentation" : "<p>List of Elasticsearch domain names.</p>",
 "simpleType" : "List<DomainInfo>",
 "variableSetterType" : "java.util.Collection<DomainInfo>"
},
"xmlNameSpaceUri" : null
} ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ListDomainNamesResponse",
"simpleMethod" : false,
"unmarshaller" : {
 "flattened" : false,
 "resultWrapper" : null
 },
"variable" : {
 "variableDeclarationType" : "ListDomainNamesResponse",
 "variableName" : "listDomainNamesResponse",
 "variableType" : "ListDomainNamesResponse",
 "documentation" : null,
 "simpleType" : "ListDomainNamesResponse",
 "variableSetterType" : "ListDomainNamesResponse"
},
"wrapper" : false
},
"ListElasticsearchInstanceTypesRequest" : {
 "c2jName" : "ListElasticsearchInstanceTypesRequest",
 "customization" : {
 "artificialResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthOffset" : 0
 },
 "deprecated" : false,
 "documentation" : "<p>Container for the parameters to the <code><a>ListElasticsearchInstanceTypes</a></code> operation. </p>",
 "enums" : null,
 "errorCode" : null,
 "event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
  "action" : "ListElasticsearchInstanceTypes",
  "locationName" : null,
  "requestUri" : "/2015-01-01/es/instanceTypes/{ElasticsearchVersion}",
  "target" : null,
  "verb" : "GET",
  "xmlNameSpaceUri" : null
},
"members" : [
  {
    "beanStyleGetterMethodName" : "getElasticsearchVersion",
    "beanStyleSetterMethodName" : "setElasticsearchVersion",
    "c2jName" : "ElasticsearchVersion",
    "c2jShape" : "ElasticsearchVersionString",
    "defaultConsumerFluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported
elasticsearch instance types are needed. </p>&lt;p&gt;This is a convenience that creates an instance of the {link
String.Builder} avoiding the need to create one manually via {link String#builder()}.&lt;p&gt;When the {link
Consumer} completes, {link String.Builder#build()} is called immediately and its result is passed to {link
#elasticsearchVersion(String)}.&lt;p&gt;@param elasticsearchVersion a consumer that will call methods on {link
String.Builder}&lt;p&gt;@return Returns a reference to this object so that method calls can be chained together.&lt;p&gt;@see
#elasticsearchVersion(String)",
  "deprecated" : false,
  "documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are
needed. </p>&lt;p&gt;",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "elasticsearchVersion",
  "fluentSetterDocumentation" : "&lt;p&gt;Version of Elasticsearch for which list of supported elasticsearch instance
types are needed. &lt;p&gt;&lt;p&gt;\n@param elasticsearchVersion Version of Elasticsearch for which list of supported
elasticsearch instance types are needed.&lt;p&gt;\n@return Returns a reference to this object so that method calls can be
chained together.&lt;p&gt;",
  "fluentSetterMethodName" : "elasticsearchVersion",
  "getterDocumentation" : "&lt;p&gt;Version of Elasticsearch for which list of supported elasticsearch instance
types are needed. &lt;p&gt;&lt;p&gt;\n@return Version of Elasticsearch for which list of supported elasticsearch instance
types are needed.&lt;p&gt;\n@return Version of Elasticsearch for which list of supported elasticsearch instance types are
needed.&lt;p&gt;",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "uri",
  "marshallLocation": "PATH",
  "marshallLocationName": "ElasticsearchVersion",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "ElasticsearchVersion",
  "uri": true
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ElasticsearchVersion",
"setterDocumentation": "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>\n@param elasticsearchVersion Version of Elasticsearch for which list of supported elasticsearch instance types are needed.",
"setterMethodName": "setElasticsearchVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "elasticsearchVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "elasticsearchVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
}
DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. The String.Builder avoids the need to create one manually via String.Builder(). When the Consumer completes, the String.Builder.build() is called immediately and its result is passed to #domainName(String).

This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.

DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.

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DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.

DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "domainName",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "domainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>\n@param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain."

"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>"

  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, { 
"beanStyleGetterMethodName" : "getMaxResults",
"beanStyleSetterMethodName" : "setMaxResults",
"c2jName" : "MaxResults"
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>

This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}. When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #maxResults(Integer)}.  

@see #maxResults(Integer)

"deprecated" : false,
"documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>

"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored."

"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
","simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>"
@nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create manually via { @link String#builder()].
@nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}.
@n@return Returns a reference to this object so that method calls can be chained together.
@see #nextToken(String)",
"deprecated" : false,
"documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>
","enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "nextToken",
"fluentSetterDocumentation": "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@n@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.

@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName": "nextToken",
"getterDocumentation": "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>

@return NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "querystring",
  "marshallLocation": "QUERY_PARAM",
  "marshallLocationName": "nextToken",
  "queryString": true,
  "statusCode": false,
  "unmarshallLocationName": "nextToken",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "nextToken",
"setterDocumentation": "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.</p>

@return NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
",
"setterMethodName": "setNextToken",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String"
NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination. <p>

DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #domainName(String)}.

@see #domainName(String)

Returns a reference to this object so that method calls can be chained together.

@see #domainName(String)

DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. <p>

DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.

DomainName represents the name of the Domain that we are trying to modify.

DomainName represents the name of the Domain that we are trying to modify.

DomainName represents the name of the Domain that we are trying to modify.
"getterDocumentation": "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>@return DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.",

"getterModel": {
  "returnType": "String",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "querystring",
  "marshallLocation": "QUERY_PARAM",
  "marshallLocationName": "domainName",
  "queryString": true,
  "statusCode": false,
  "unmarshallLocationName": "domainName",
  "uri": false
},

"idempotencyToken": false,

"isBinary": false,

"jsonValue": false,

"list": false,

"listModel": null,

"map": false,

"mapModel": null,

"marshallingType": "STRING",

"name": "DomainName",

"setterDocumentation": "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>@param domainName DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.",

"setterMethodName": "setDomainName",

"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
}
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchVersion" : {
  "beanStyleGetterMethodName" : "getElasticsearchVersion",
  "beanStyleSetterMethodName" : "setElasticsearchVersion",
  "c2jName" : "ElasticsearchVersion",
  "c2jShape" : "ElasticsearchVersionString",
  "defaultValueFluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #elasticsearchVersion(String)}.

When the {@link @param #elasticsearchVersion(String) param elasticsearchVersion} a consumer that will call methods on the return type to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)",
  "deprecated" : false,
  "documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "elasticsearchVersion",
  "fluentSetterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String)",
  "getterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@return Version of Elasticsearch for which list of supported elasticsearch instance types are needed.
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersion(String),
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "ElasticsearchVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersion",
"uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"setterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>
@param elasticsearchVersion Version of Elasticsearch for which list of supported elasticsearch instance types are needed.",
"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {

"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "String",
"variableName" : "elasticsearchVersion",
"variableType" : "String",
"documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
"MaxResults" : {
  "beanStyleGetterMethodName" : "getMaxResults",
  "beanStyleSetterMethodName" : "setMaxResults",
  "c2jName" : "MaxResults",
  "c2jShape" : "MaxResults",
  "defaultConsumerFluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
  This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}. When the {@link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link maxResults(Integer)}.<p>@param maxResults a consumer that will call methods on { @link Integer.Builder}@n@return Returns a reference to this object so that method calls can be chained together.@n@see #maxResults(Integer)
  
  "deprecated" : false,
  "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "maxResults",
  "fluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
  @param maxResults Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. @n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "maxResults",
  "getterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
  @return Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored.",
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "querystring",
    "marshallLocation" : "QUERY_PARAM",
    "marshallLocationName" : "maxResults",
    "queryString" : true,
    "statusCode" : false,
    "unmarshallLocationName" : "maxResults",
  }
}


"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored.",

"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"NextToken" : {
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "NextToken",
  "defaultConsumerFluentSetterDocumentation" : "<p> NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}.<p>@param nextToken a consumer that will call methods on { @link String.Builder}</p>

@returns Returns a reference to this object so that method calls can be chained together.<p>@see #nextToken(String)"
"deprecated" : false,
"documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>
@return NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : "querystring",
 "marshallLocation" : "QUERY_PARAM",
 "marshallLocationName" : "nextToken",
 "queryString" : true,
 "statusCode" : false,
 "unmarshallLocationName" : "nextToken",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "nextToken",
"setterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>
@param nextToken NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.
@return Returns a reference to this object so that method calls can be chained together.",
"setterModel" : {
 "returnType" : "String",
 "documentation" : null
 },
"urlPath" : "nextToken",
"version" : "1.0.0"
produced result containing NextToken. It is used for pagination.

"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,

"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getElasticsearchVersion",
    "beanStyleSetterMethodName" : "setElasticsearchVersion",
    "c2jName" : "ElasticsearchVersion",
    "c2jShape" : "ElasticsearchVersionString",
    "defaultConsumerFluentSetterDocumentation" : "Version of Elasticsearch for which list of supported elasticsearch instance types are needed."
  }
],
"deprecated" : false,
"documentation" : "Version of Elasticsearch for which list of supported elasticsearch instance types are needed."
chained together.

"fluentSetterMethodName" : "elasticsearchVersion",
"getterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>@return Version of Elasticsearch for which list of supported elasticsearch instance types are needed."

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "uri",
  "marshallLocation" : "PATH",
  "marshallLocationName" : "ElasticsearchVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchVersion",
  "uri" : true
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchVersion",
"setterDocumentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>@param elasticsearchVersion Version of Elasticsearch for which list of supported elasticsearch instance types are needed."

"setterMethodName" : "setElasticsearchVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "elasticsearchVersion",
    "variableType" : "String",
    "documentation" : "<p>Version of Elasticsearch for which list of supported elasticsearch instance types are needed. </p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultValueConsumerFluentSetterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {#domainName(String)}.

@see #domainName(String)",
"deprecated" : false,
"documentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>

@see #domainName(String)",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "null",
"fluentEnumSetterMethodName" : "null",
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>

@see #domainName(String)",
"getterDocumentation" : "<p>DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain. </p>

@see #domainName(String)",
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
}
DomainName represents the name of the Domain that we are trying to modify. This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.

The setter method is named "setDomainName".

```java
public void setDomainName(String domainName) {
    this.domainName = domainName;
}
```

This should be present only if we are querying for list of available Elasticsearch instance types when modifying existing domain.
domain. </p>

- **simpleType**: "String"
- **variableSetterType**: "String"

},
- **xmlNameSpaceUri**: null

},
- **beanStyleGetterMethodName**: "getMaxResults",
- **beanStyleSetterMethodName**: "setMaxResults",
- **c2jName**: "MaxResults",
- **c2jShape**: "MaxResults",
- **defaultValueConsumerFluentSetterDocumentation**: "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>

This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #maxResults(Integer)}.

When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #maxResults(Integer)}.

- **deprecated**: false,
- **documentation**: "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>

- **enumType**: null,
- **eventHeader**: false,
- **eventPayload**: false,
- **fluentEnumGetterMethodName**: null,
- **fluentEnumSetterMethodName**: null,
- **fluentGetterMethodName**: "maxResults",
- **fluentSetterMethodName**: "maxResults",
- **fluentSetterDocumentation**: "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>

- **getterDocumentation**: "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>

- **getterModel**: [{
  "returnType": "Integer",
  "documentation": null
}],
- **http**: {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "querystring",
  "marshallLocation": "QUERY_PARAM"}
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored.",
"setterMethodName" : "setMaxResults",
"setterModel" : {
   "variableDeclarationType" : "Integer",
   "variableName" : "maxResults",
   "variableType" : "Integer",
   "documentation" : null,
   "simpleType" : "Integer",
   "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "Integer",
   "variableName" : "maxResults",
   "variableType" : "Integer",
   "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 30 else it wont be honored. </p>
"simpleType" : "Integer",
   "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "<p> NextToken should be sent in case if earlier API call produced result containing NextToken. It is used for pagination. </p>

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to
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```java
@link #nextToken(String))
@returns a reference to this object so that method calls can be chained together.

@see #nextToken(String)

"deprecated" : false,
"documentation" : "<p>NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result
containing NextToken. It is used for pagination. </p>
@param nextToken NextToken should be sent in case if
earlier API call produced result containing NextToken. It is used for pagination.
@return Returns a reference to
this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<p>NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination. </p>
@return NextToken should be sent in case if earlier API call produced result
containing NextToken. It is used for pagination.
",
"getterModel" : {  
"returnType" : "String",
"documentation" : null
},
"http" : {  
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "nextToken",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "nextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
```


"name" : "NextToken",
"setterDocumentation" : "NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination. "
@param nextToken NextToken should be sent in case if earlier API call
produced result containing NextToken. It is used for pagination."
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "NextToken should be sent in case if earlier API call produced result containing
NextToken. It is used for pagination. "
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : [ "ElasticsearchVersion" ],
"shapeName" : "ListElasticsearchInstanceTypesRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "ListElasticsearchInstanceTypesRequest",
  "variableName" : "listElasticsearchInstanceTypesRequest",
  "variableType" : "ListElasticsearchInstanceTypesRequest",
  "documentation" : null,
  "simpleType" : "ListElasticsearchInstanceTypesRequest",
  "variableSetterType" : "ListElasticsearchInstanceTypesRequest"
},
"wrapper" : false
},
"ListElasticsearchInstanceTypesResponse" : {
  "c2jName" : "ListElasticsearchInstanceTypesResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> Container for the parameters returned by <code>ListElasticsearchInstanceTypes</code> operation. </p>",
"enums" : null,
"errorCode" : null,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshallers" : [ {
"beanStyleGetterMethodName" : "getElasticsearchInstanceTypesAsStrings",
"beanStyleSetterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"c2jName" : "ElasticsearchInstanceTypes",
"c2jShape" : "ElasticsearchInstanceTypeList",
"defaultConsumerFluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()}.
When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchInstanceTypesAsStrings(List<String>)}. The result is passed to the object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceTypes",
"fluentEnumSetterMethodName" : "elasticsearchInstanceTypes",
"fluentGetterMethodName" : "elasticsearchInstanceTypesAsStrings",
"fluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
"@param ElasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>

"fluentSetterMethodName" : "elasticsearchInstanceTypesWithStrings",
"getterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

"httpStatusCode" : null,
"marshallers" : [ {
"beanStyleGetterMethodName" : "getElasticsearchInstanceTypesAsStrings",
"beanStyleSetterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"c2jName" : "ElasticsearchInstanceTypes",
"c2jShape" : "ElasticsearchInstanceTypeList",
"defaultConsumerFluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()}.
When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchInstanceTypesAsStrings(List<String>)}. The result is passed to the object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceTypes",
"fluentEnumSetterMethodName" : "elasticsearchInstanceTypes",
"fluentGetterMethodName" : "elasticsearchInstanceTypesAsStrings",
"fluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
"@param ElasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>

"fluentSetterMethodName" : "elasticsearchInstanceTypesWithStrings",
"getterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

"httpStatusCode" : null,
"marshallers" : [ {
"beanStyleGetterMethodName" : "getElasticsearchInstanceTypesAsStrings",
"beanStyleSetterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"c2jName" : "ElasticsearchInstanceTypes",
"c2jShape" : "ElasticsearchInstanceTypeList",
"defaultConsumerFluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()}.
When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchInstanceTypesAsStrings(List<String>)}. The result is passed to the object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceTypes",
"fluentEnumSetterMethodName" : "elasticsearchInstanceTypes",
"fluentGetterMethodName" : "elasticsearchInstanceTypesAsStrings",
"fluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
"@param ElasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>

"fluentSetterMethodName" : "elasticsearchInstanceTypesWithStrings",
"getterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

"httpStatusCode" : null,
"marshallers" : [ {
"beanStyleGetterMethodName" : "getElasticsearchInstanceTypesAsStrings",
"beanStyleSetterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"c2jName" : "ElasticsearchInstanceTypes",
"c2jShape" : "ElasticsearchInstanceTypeList",
"defaultConsumerFluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()}.
When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchInstanceTypesAsStrings(List<String>)}. The result is passed to the object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceTypes",
"fluentEnumSetterMethodName" : "elasticsearchInstanceTypes",
"fluentGetterMethodName" : "elasticsearchInstanceTypesAsStrings",
"fluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
"@param ElasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>

"fluentSetterMethodName" : "elasticsearchInstanceTypesWithStrings",
"getterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

"httpStatusCode" : null,
"marshallers" : [ {
"beanStyleGetterMethodName" : "getElasticsearchInstanceTypesAsStrings",
"beanStyleSetterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"c2jName" : "ElasticsearchInstanceTypes",
"c2jShape" : "ElasticsearchInstanceTypeList",
"defaultConsumerFluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()}.
When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchInstanceTypesAsStrings(List<String>)}. The result is passed to the object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceTypes",
"fluentEnumSetterMethodName" : "elasticsearchInstanceTypes",
"fluentGetterMethodName" : "elasticsearchInstanceTypesAsStrings",
"fluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
"@param ElasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code>

"fluentSetterMethodName" : "elasticsearchInstanceTypesWithStrings",
"getterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

"httpStatusCode" : null,
"marshallers" : [ {
"beanStyleGetterMethodName" : "getElasticsearchInstanceTypesAsStrings",
"beanStyleSetterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"c2jName" : "ElasticsearchInstanceTypes",
"c2jShape" : "ElasticsearchInstanceTypeList",
"defaultConsumerFluentSetterDocumentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>
This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()}.
When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link ElasticsearchInstanceTypesAsStrings(List<String>)}. The result is passed to the object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "<p> List of instance types supported by Amazon Elasticsearch service for given <code> <a>ElasticsearchVersion</a> </code> </p>",
"enumType" : null,
"eventHeader" : false,
"getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ElasticsearchInstanceTypes",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ElasticsearchInstanceTypes",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
        "beanStyleGetterMethodName" : "getMemberAsString",
        "beanStyleSetterMethodName" : "setMember",
        "c2jName" : "member",
        "c2jShape" : "ESPartitionInstanceType",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object.\nThis is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create
one manually via [ @link String#builder()].\nWhen the [ @link Consumer] completes, [ @link
String.Builder#build()] is called immediately and its result is passed to [ @link
#memberAsString(String)]\n@n@param member a consumer that will call methods on [ @link
String.Builder]\n@n@return Returns a reference to this object so that method calls can be chained together.\n@see
#member(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : "ESPartitionInstanceType",
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "member",
    "fluentEnumSetterMethodName" : "member",
    "fluentGetterMethodName" : "memberAsString",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member\n\n@return a reference to this object so that method calls can be chained together.\n\n@see
#member(String)",
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
The new value for the Member property for this object. 

@see ESPartitionInstanceType

@return Returns a reference to this object so that method calls can be chained together. 

@see ESPartitionInstanceType

"fluentSetterMethodName" : "member",

"getterDocumentation" : "Returns the value of the Member property for this object. 

If the service returns an enum value that is not available in the current SDK version, 

 {@link #member} will return { @link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. 

The raw value returned by the service is available from { @link #memberAsString}. 

@return The value of the Member property for this object. 

@see ESPartitionInstanceType

"getterModel" : {

"returnType" : "String",

"documentation" : null
}

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : false,

"header" : false,

"isPayload" : false,

"isStreaming" : false,

"location" : null,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "member",

"queryString" : false,

"statusCode" : false,

"unmarshallLocationName" : "member",

"uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"JsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "Member",

"setterDocumentation" : "Sets the value of the Member property for this object. 

@param member The new value for the Member property for this object. 

@see ESPartitionInstanceType"

"setterMethodName" : "setMember",

"setterModel" : {

"variableDeclarationType" : "String",

"variableName" : "member",

"variableType" : "String",

"documentation" : null,

"simpleType" : "String",

"variableSetterType" : "String"}
}.
"simple": true,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "String",
    "variableName": "member",
    "variableType": "String",
    "documentation": "",
    "simpleType": "String",
    "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>",
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "ElasticsearchInstanceTypes",
"setterDocumentation": "List of instance types supported by Amazon Elasticsearch service for given \n\<code\>\<a\>ElasticsearchVersion\</a\>\</code\> \n\@param elasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given \<code\>\<a\>ElasticsearchVersion\</a\>\</code\> ",
"setterMethodName": "setElasticsearchInstanceTypesWithStrings",
"setterModel": {
    "variableDeclarationType": "java.util.List<String>",
    "variableName": "elasticsearchInstanceTypes",
    "variableType": "java.util.List<String>",
    "documentation": null,
    "simpleType": "List<String>",
    "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "java.util.List<String>",
    "variableName": "elasticsearchInstanceTypes",
    "variableType": "java.util.List<String>",
    "documentation": "List of instance types supported by Amazon Elasticsearch service for given \<code\>\<a\>ElasticsearchVersion\</a\>\</code\> ",
    "simpleType": "List<String>",
    "variableSetterType": "java.util.Collection<String>"
"xmlNameSpaceUri" : null,
{
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. <p>This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #nextToken(String)\}. @param nextToken a consumer that will call methods on \{@link String.Builder\}.@return Returns a reference to this object so that method calls can be chained together.@see #nextToken(String)",
"deprecated" : false,
"documentation" : "In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
@parameter nextToken In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
@return In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
}
In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.

```xml

<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.

```

In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.

```xml

<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.

```

List of instance types supported by Amazon Elasticsearch service for given

```xml

<p>List of instance types supported by Amazon Elasticsearch service for given

```

This is a convenience that
creates an instance of the \{@link List<String>.Builder\} avoiding the need to create one manually via \{@link List<String>#builder()\}. When the \{@link Consumer\} completes, \{@link List<String>.Builder#build()\} is called immediately and its result is passed to \{@link #elasticsearchInstanceTypesAsStrings(List<String>)\}.

When the \{@link Consumer\} completes, \{@link List<String>.Builder#build()\} is called immediately and its result is passed to \{@link #elasticsearchInstanceTypesAsStrings(List<String>)\}.

@param elasticsearchInstanceTypes a consumer that will call methods on \{@link List<String>.Builder\}.
@return Returns a reference to this object so that method calls can be chained together.

@see #elasticsearchInstanceTypesWithStrings(List<String>)
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMemberAsString",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ESPartitionInstanceType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create one manually via \{ @link String#builder() \}.\nWhen the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link String#memberAsString(String) \}.\n@\n@param member a consumer that will call methods on \{ @link String.Builder \}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : "ESPartitionInstanceType",
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "member",
    "fluentEnumSetterMethodName" : "member",
    "fluentGetterMethodName" : "memberAsString",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@see ESPartitionInstanceType\n@return Returns a reference to this object so that method calls can be chained together.\n@see ESPartitionInstanceType",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.\nIf the service returns an enum value that is not available in the current SDK version, \{ @link #member \} will return \{ @link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION \}. The raw value returned by the service is available from \{ @link #memberAsString \}.\n\n@return The value of the Member property for this object.\n@see ESPartitionInstanceType",
    "getterModel" : {
      "returnType" : "String",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : null,
      "marshallLocation" : "PAYLOAD",
      "marshallLocationName" : "member",
      "queryString" : false,
    }
  }
}
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.\n\n@see ESPartitionInstanceType",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
},
"map": false,
"mapModel": null,
"marshallingType" : "LIST",
"name" : "ElasticsearchInstanceTypes",
"setterDocumentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given
<code><a>ElasticsearchVersion</a></code>. </p>
@param elasticsearchInstanceTypes List of instance types supported by Amazon Elasticsearch service for given
<code><a>ElasticsearchVersion</a></code>
"setterMethodName" : "setElasticsearchInstanceTypesWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "elasticsearchInstanceTypes",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "elasticsearchInstanceTypes",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>List of instance types supported by Amazon Elasticsearch service for given
<code><a>ElasticsearchVersion</a></code></p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"NextToken" : {
  "beanStyleGetterMethodName" : "getNextToken",
  "beanStyleSetterMethodName" : "setNextToken",
  "c2jName" : "NextToken",
  "c2jShape" : "NextToken",
  "defaultValueConsumerFluentSetterDocumentation" : "<p>In case if there are more results available NextToken
would be present, make further request to the same API with received NextToken to paginate remaining results.
</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one
manually via {@link String.Builder#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()}
is called immediately and its result is passed to {@link #nextToken(String)}. When a consumer that will
will call methods on {@link String.Builder#return Returns a reference to this object so that method calls can be
chained together.}@see #nextToken(String)
  "deprecated" : false,
  "documentation" : "<p>In case if there are more results available NextToken would be present, make further
request to the same API with received NextToken to paginate remaining results. </p>"
},
"eventType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation": "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
@param nextToken In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. 
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "nextToken",
"getterDocumentation": "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
@return In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. 

"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "NextToken",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "NextToken",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NextToken",
"setterDocumentation": "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
@param nextToken In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. 

"setterMethodName": "setNextToken",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "nextToken",
  "variableType": "String"
In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results.

```
<p>Example:

```
```
Amazon Elasticsearch service for given <code>&lt;a&gt;ElasticsearchVersion&lt;/a&gt;</code>.

```
"getterModel" : {
  "returnType" : "java.util.List&lt;String&gt;",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchInstanceTypes",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchInstanceTypes",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : true,

"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMemberAsString",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ESPartitionInstanceType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to \n@link ESPartitionInstanceType#memberAsString(String).\n\n@defaultConsumerFluentSetterDocumentation\n\n@see \n\n@see ESPartitionInstanceType#member(String)
  "deprecated" : false,
  "documentation" : "",
  "enumType" : "ESPartitionInstanceType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "member",
  "fluentEnumSetterMethodName" : "member",
  "fluentGetterMethodName" : "memberAsString",
```
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n
@param member
The new value for the Member property for this object.\n
@return Returns a reference to this object so that method calls can be chained together.\n
@see ESPartitionInstanceType",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n<p>\nIf the service returns an enum value that is not available in the current SDK version, \n@link #member \nwill return \n@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION. The raw value returned by the service is available \nfrom \n@link #memberAsString.\n</p>
@return The value of the Member property for this object.\n
@see ESPartitionInstanceType",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n
@param member
The new value for the Member property for this object.\n
@see ESPartitionInstanceType",
"setterMethodName" : "setMember",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
List of instance types supported by Amazon Elasticsearch service for given <code>eclipse:ElasticsearchVersion</code>:

```java
List<java.util.String> elasticsearchInstanceTypes = new ArrayList<String>);
```

### setterDocumentation

List of instance types supported by Amazon Elasticsearch service for given <code>eclipse:ElasticsearchVersion</code>:

```
List<java.util.String> elasticsearchInstanceTypes = new ArrayList<String>);
```

### setterMethod

List of instance types supported by Amazon Elasticsearch service for given <code>eclipse:ElasticsearchVersion</code>:

```
List<java.util.String> elasticsearchInstanceTypes = new ArrayList<String>);
```

### documentation

List of instance types supported by Amazon Elasticsearch service for given <code>eclipse:ElasticsearchVersion</code>:

```
List<java.util.String> elasticsearchInstanceTypes = new ArrayList<String>);
```

### example

List of instance types supported by Amazon Elasticsearch service for given <code>eclipse:ElasticsearchVersion</code>:

```
List<java.util.String> elasticsearchInstanceTypes = new ArrayList<String>);
```
"variableSetterType" : "java.util.Collection<String>",
"xmlNameSpaceUri" : null}

"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #nextToken(String)}. 

@ see #nextToken(String)

"deprecated" : false,
"documentation" : "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>"

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
@ see #nextToken(String)

@ return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
@ see #nextToken(String)

@ return Returns a reference to this object so that method calls can be chained together.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD"
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>
@param nextToken
In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results."
,"setterMethodName" : "setNextToken",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "nextToken",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "nextToken",
 "variableType" : "String",
 "documentation" : "<p>In case if there are more results available NextToken would be present, make further request to the same API with received NextToken to paginate remaining results. </p>"
,"simpleType" : "String",
 "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}]
,"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ListElasticsearchInstanceTypesResponse",
"simpleMethod" : false,
"unmarshaller" : {
 "flattened" : false,
"resultWrapper" : null,
"variable" : {
  "variableDeclarationType" : "ListElasticsearchInstanceTypesResponse",
  "variableName" : "listElasticsearchInstanceTypesResponse",
  "variableType" : "ListElasticsearchInstanceTypesResponse",
  "documentation" : null,
  "simpleType" : "ListElasticsearchInstanceTypesResponse",
  "variableSetterType" : "ListElasticsearchInstanceTypesResponse"
},
"wrapper" : false,
"ListElasticsearchVersionsRequest" : {
  "c2jName" : "ListElasticsearchVersionsRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Container for the parameters to the <code>ListElasticsearchVersions</code> operation. Use <code>MaxResults</code> to control the maximum number of results to retrieve in a single call. Use <code>NextToken</code> in response to retrieve more results. If the received response does not contain a <code>NextToken</code>, then there are no more results to retrieve.",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : {
    "action" : "ListElasticsearchVersions",
    "locationName" : null,
    "requestUri" : "/2015-01-01/es/versions",
    "target" : null,
    "verb" : "GET",
    "xmlNameSpaceUri" : null
  },
  "members" : [
    "beanStyleGetterMethodName" : "getMaxResults",
    "beanStyleSetterMethodName" : "setMaxResults",
    "c2jName" : "MaxResults",
    "documentation" : null,
    "simpleType" : "MaxResults",
    "variableDeclarationType" : "MaxResults",
    "variableName" : "maxResults",
    "variableType" : "MaxResults",
    "variableSetterType" : "MaxResults"
  ]
}
"c2jShape" : "MaxResults",
"defaultConsumerFluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>\n\nThis is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}.\n\nWhen the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #maxResults(Integer)}.\n\n@param maxResults a consumer that will call methods on { @link Integer.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #maxResults(Integer)",
"deprecated" : false,
"documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "maxResults",
"fluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.
\n@return Returns a reference to this object so that method calls can be chained together.\
"fluentSetterMethodName" : "maxResults",
"getterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
\n@return Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.
"getterModel" : {
 "returnType" : "Integer",
 "documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : "querystring",
 "marshallLocation" : "QUERY_PARAM",
 "marshallLocationName" : "maxResults",
 "queryString" : true,
 "statusCode" : false,
 "unmarshallLocationName" : "maxResults",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.",
"setterMethodName" : "setMaxResults",
"setterModel" : {

  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {

  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object.

This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #nextToken(String)].

@return Returns a reference to this object so that method calls can be chained together.

@see #nextToken(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.
The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "Returns the value of the NextToken property for this object.
@return The value of the NextToken property for this object."
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : "querystring",
 "marshallLocation" : "QUERY_PARAM",
 "marshallLocationName" : "nextToken",
 "queryString" : true,
 "statusCode" : false,
 "unmarshallLocationName" : "nextToken",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "Sets the value of the NextToken property for this object.
The new value for the NextToken property for this object.
@param nextToken The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together.
"setterMethodName" : "setNextToken",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "nextToken",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
 },
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "MaxResults" : {
    "beanStyleGetterMethodName" : "getMaxResults",
    "beanStyleSetterMethodName" : "setMaxResults",
    "c2jName" : "MaxResults",
    "c2jShape" : "MaxResults",
    "defaultConsumerFluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>\nThis is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}.\nWhen the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #maxResults(Integer)}.\n@param maxResults a consumer that will call methods on { @link Integer.Builder}\n@returns a reference to this object so that method calls can be chained together.\n@see #maxResults(Integer)",
    "deprecated" : false,
    "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>"",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "maxResults",
    "fluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>\n@returns a reference to this object so that method calls can be chained together."",
    "getterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>\n@returns a reference to this object so that method calls can be chained together."",
    "getterModel" : {
      "returnType" : "Integer",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "maxResults",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "maxResults",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "MaxResults",
"setterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored."
,  
"setterMethodName" : "setMaxResults",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "maxResults",
  "variableType" : "Integer",
  "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>"",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"NextToken" : {
"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object. This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #nextToken(String)].
@throws Returns a reference to this object so that method calls can be chained together.@see #nextToken(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.

@param nextToken The new value for the NextToken property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "Returns the value of the NextToken property for this object.

@return The value of the NextToken property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : "querystring",
  "marshallLocation" : "QUERY_PARAM",
  "marshallLocationName" : "nextToken",
  "queryString" : true,
  "statusCode" : false,
  "unmarshallLocationName" : "nextToken",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "Sets the value of the NextToken property for this object.\n\n@param nextToken The new value for the NextToken property for this object.",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}],

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getMaxResults",
  "beanStyleSetterMethodName" : "setMaxResults",
  "c2jName" : "MaxResults",
  "c2jShape" : "MaxResults",
  "defaultConsumerFluentSetterDocumentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>\nThis is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}.\n\nWhen the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #setMaxResults(Integer)}.\n@see #setMaxResults(Integer)",
  "deprecated" : false,
  "documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "maxResults",
"fluentSetterDocumentation": "<p>Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.</p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "maxResults",
"getterDocumentation": "<p>Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored.</p>
@return Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored."
getterModel": {
  "returnType": "Integer",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "querystring",
  "marshallLocation": "QUERY_PARAM",
  "marshallLocationName": "maxResults",
  "queryString": true,
  "statusCode": false,
  "unmarshallLocationName": "maxResults",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "MaxResults",
"setterDocumentation": "<p>Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>
@param maxResults Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored."
setterMethodName": "setMaxResults",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "maxResults",
  "variableType": "Integer",
  "documentation": null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Integer",
"variableName" : "maxResults",
"variableType" : "Integer",
"documentation" : "<p> Set this value to limit the number of results returned. Value provided must be greater than 10 else it wont be honored. </p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlnsNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object.

This is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via {link String.Builder}. When the {link Consumer} completes, {link String.Builder.build()} is called immediately and its result is passed to {link #nextToken(String)}. @param nextToken a consumer that will call methods on {link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #nextToken(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.

The new value for the NextToken property for this object.@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "Returns the value of the NextToken property for this object.

The value of the NextToken property for this object.@return The value of the NextToken property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "nextToken",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "nextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "Sets the value of the NextToken property for this object.\n\n@param nextToken The new value for the NextToken property for this object.\n",
"setterMethodName" : "setNextToken",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "nextToken",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "nextToken",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ListElasticsearchVersionsRequest",
"simpleMethod" : true,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "ListElasticsearchVersionsRequest",
  "variableName" : "listElasticsearchVersionsRequest",
  "variableType" : "ListElasticsearchVersionsRequest",
  "documentation" : null,
  "simpleType" : "ListElasticsearchVersionsRequest",
  "variableSetterType" : "ListElasticsearchVersionsRequest"
},
"wrapper" : false
},
"ListElasticsearchVersionsResponse" : {
  "c2jName" : "ListElasticsearchVersionsResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Container for the parameters for response received from <code><a>ListElasticsearchVersions</a></code> operation. \</p>\r

"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshallable" : null,
"members" : [
  "beanStyleGetterMethodName" : "getElasticsearchVersions",
  "beanStyleSetterMethodName" : "setElasticsearchVersions",
  "c2jName" : "ElasticsearchVersions",
  "c2jShape" : "ElasticsearchVersionList",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object.\n\nThis is a convenience that creates an instance of the \{@link List<String>.Builder\} avoiding the need to create one manually via \{@link List<String>#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link List<String>.Builder#build()\} is called immediately and its result is passed to \{@link ElasticsearchVersions(List<String>)\}.\n\n@param elasticsearchVersions a consumer that will call methods on \{@link List<String>.Builder\}\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see ElasticsearchVersions(List<String>)",
  "deprecated" : false,

@param elasticsearchVersions The new value for the ElasticsearchVersions property for this object.
@return Returns a reference to this object so that method calls can be chained together.", "fluentSetterMethodName" : "elasticsearchVersions", "getterDocumentation" : "Returns the value of the ElasticsearchVersions property for this object.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.


This is a convenience that creates an instance of the String.Builder avoiding the need to create
one manually via [@link String#builder()].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@param member a consumer that will call methods on [@link String.Builder]

@return Returns a reference to this object so that method calls can be chained together.
@see #member(String)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object."

The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object."

The value of the Member property for this object.

"getterModel" : {
 "returnType" : "String",
 "documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "member",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "member",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object."

The new value for the Member property for this object.
value for the Member property for this object.

setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>
"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ElasticsearchVersions",
"setterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object."

@param
elasticsearchVersions The new value for the ElasticsearchVersions property for this object.

setterMethodName" : "setElasticsearchVersions",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "elasticsearchVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>
"
},
"simple" : false,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "Sets the value of the NextToken property for this object.

@param nextToken The new value for the NextToken property for this object.,
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "ElasticsearchVersions" : {
    "beanStyleGetterMethodName" : "getElasticsearchVersions",
    "beanStyleSetterMethodName" : "setElasticsearchVersions",
    "c2jName" : "ElasticsearchVersions",
    "c2jShape" : "ElasticsearchVersionList",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object.

This is a convenience that creates an instance of the [List<String>.Builder] avoiding the need to create one manually via {List<String>#builder()}. When the [Consumer] completes, the

List<String>.Builder#build()} is called immediately and its result is passed to {@link
@elasticsearchVersions(List<String>)}.\n\n@see #elasticsearchVersions(List<String>)

@return Returns a reference to this object so that method calls can be chained
together.

@see #elasticsearchVersions(List<String>)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchVersions",
"fluentSetterDocumentation" : "Sets the value of the ElasticsearchVersions property for this
object.

@param elasticsearchVersions The new value for the ElasticsearchVersions property for this
object.

@return Returns a reference to this object so that method calls can be chained
together.

@see #elasticsearchVersions(List<String>)",
"getterDocumentation" : "Returns the value of the ElasticsearchVersions property for this
object.

Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

@return The value of the ElasticsearchVersions property for this object.

"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchVersions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchVersions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"camelCasePropertyName" : "member",
"fieldType" : "java.lang.String",
"getterDocumentation" : "The member property for this object.

@see #getMember()

@see #setMember(String)

@see #getMembers()

@see #setMembers(java.util.List<String>)

@see #setMembers(String[])

@see #setMembers(String)

@see #setMembers(java.util.List<String>)

@see #setMembers(String[])

@see #setMembers(String)

"getterModel" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Member",
"uri" : false
},
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"camelCasePropertyName" : "member",
"fieldType" : "java.lang.String",
"getterDocumentation" : "The member property for this object.

@see #getMember()

@see #setMember(String)

@see #getMembers()

@see #setMembers(java.util.List<String>)

@see #setMembers(String[])

@see #setMembers(String)

@see #setMembers(java.util.List<String>)

@see #setMembers(String[])

@see #setMembers(String)

"getterModel" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Member",
"queryString" : false,
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}. The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

@see #member(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

@see #member(String)",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.

@see #member(String)",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."
"setterMethodName" : "setMember",
"setterModel" : {

"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ElasticsearchVersions",
"setterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object.

@param elasticsearchVersions The new value for the ElasticsearchVersions property for this object."
"setterMethodName" : "setElasticsearchVersions",
"setterModel" : {

"variableDeclarationType" : "java.util.List<String>",
"variableName" : "elasticsearchVersions",
"variableType" : "java.util.List<String>"}
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NextToken",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NextToken",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "Sets the value of the NextToken property for this object.

@param nextToken The new value for the NextToken property for this object."
,"setterMethodName" : "setNextToken",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "nextToken",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "nextToken",
    "variableType" : "String",
    "documentation" : ",",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getElasticsearchVersions",}
"beanStyleSetterMethodName": "setElasticsearchVersions",
"c2jName": "ElasticsearchVersions",
"c2jShape": "ElasticsearchVersionList",
"defaultConsumerFluentSetterDocumentation": "Sets the value of the ElasticsearchVersions property for this object.
This is a convenience that creates an instance of the \{@link List<String>.Builder\} avoiding the need to create one manually via \{@link List<String>#builder()\}. When the \{@link Consumer\} completes, \{@link List<String>.Builder#build()\} is called immediately and its result is passed to \{@link ElasticsearchVersions(List<String>)\}.
\n@param elasticsearchVersions a consumer that will call methods on \{@link List<String>.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchVersions(List<String>)",
"deprecated": false,
"documentation": "",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "elasticsearchVersions",
"fluentSetterDocumentation": "Sets the value of the ElasticsearchVersions property for this object.
@param elasticsearchVersions The new value for the ElasticsearchVersions property for this object.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName": "elasticsearchVersions",
"getterDocumentation": "Returns the value of the ElasticsearchVersions property for this object.
<p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return The value of the ElasticsearchVersions property for this object.
",
"getterModel": {
"returnType": "java.util.List<String>",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "ElasticsearchVersions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ElasticsearchVersions",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "ElasticsearchVersionString",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()].

When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #member(String)].

@returns Returns a reference to this object so that method calls can be chained together.

@see #member(String)
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.

The new value for the Member property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

@see #member(String)
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.

The value of the Member property for this object.

@returns The value of the Member property for this object.

@see #member(String)
  "getterModel" : {
    "returnType" : String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "ElasticsearchVersions",
"setterDocumentation" : "Sets the value of the ElasticsearchVersions property for this object.
@param


elasticsearchVersions The new value for the ElasticsearchVersions property for this object.

"setterMethodName" : "setElasticsearchVersions",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "elasticsearchVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
}
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "elasticsearchVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
}
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getNextToken",
"beanStyleSetterMethodName" : "setNextToken",
"c2jName" : "NextToken",
"c2jShape" : "NextToken",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the NextToken property for this object.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #nextToken(String)].\n\n@param nextToken a consumer that will call methods on [@link String.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #nextToken(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "nextToken",
"fluentSetterDocumentation" : "Sets the value of the NextToken property for this object.\n\nThe new value for the NextToken property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "nextToken",
"getterDocumentation" : "Returns the value of the NextToken property for this object.\n\nThe value of the NextToken property for this object.\n\n@return The value of the NextToken property for this object.",
"getterModel" : {
  "returnType" : "String",
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "elasticsearchVersions",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
}\n"xmlNameSpaceUri" : null
},


"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "NextToken",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "NextToken",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NextToken",
"setterDocumentation" : "Sets the value of the NextToken property for this object.\n\n@param nextToken The new value for the NextToken property for this object.\",
"setterMethodName" : "setNextToken",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "nextToken",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlns:NameSpaceUri" : null

"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : null,
"shapeName" : "ListElasticsearchVersionsResponse",
"simpleMethod" : false,
"unmarshaller" : {
    "flattened" : false,
    "resultWrapper" : null
},
"variable" : {
    "variableDeclarationType" : "ListElasticsearchVersionsResponse",
    "variableName" : "listElasticsearchVersionsResponse",
    "variableType" : "ListElasticsearchVersionsResponse",
    "documentation" : null,
    "simpleType" : "ListElasticsearchVersionsResponse",
    "variableSetterType" : "ListElasticsearchVersionsResponse"
},
"wrapper" : false

"ListTagsRequest" : {
    "c2jName" : "ListTagsRequest",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "Container for the parameters to the <code>ListTags</code> operation. Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view are attached.",
    "enums" : null,
    "errorCode" : null,
    "event" : false,
    "eventStream" : false,
    "explicitEventPayloadMember" : null,
    "hasHeaderMember" : false,
    "hasPayloadMember" : false,
    "hasStatusCodeMember" : false,
    "hasStreamingMember" : false,
    "httpStatusCode" : null,
    "marshaller" : {
        "action" : "ListTags",
        "locationName" : null,
        "requestUri" : "/2015-01-01/tags/"
"target": null,
"verb": "GET",
"xmlNameSpaceUri": null
},
"members": [
  {
    "beanStyleGetterMethodName": "getArn",
    "beanStyleSetterMethodName": "setArn",
    "c2jName": "ARN",
    "c2jShape": "ARN",
    "defaultConsumerFluentSetterDocumentation": "\n\n<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link String#builder()}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #arn(String)\n\n" deprecated": false,
"documentation": "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.\n</p>\n\n"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "arn",
"fluentSetterDocumentation": "\n\n<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.\n\n@param arn a consumer that will call methods on { @link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #arn(String)\n\n\n" fluentSetterMethodName": "arn",
"getterDocumentation": "\n\n<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.\n</p>\n\n@return Specifies the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.\n\n" getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": "queryString",
  "marshallLocation": "QUERY_PARAM",
  "marshallLocationName": "arn",
  "queryString": true,
"statusCode" : false,
"unmarshallLocationName" : "arn",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"setterDocumentation" : "&lt;p&gt; Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain to which the tags
are attached that you want to view.&lt;/p&gt;&lt;param name="arn"&gt; Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain
to which the tags are attached that you want to view.&lt;/p&gt;",
"setterMethodName" : "setArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : "&lt;p&gt; Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain to which the tags are
attached that you want to view.&lt;/p&gt;",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
]
"membersAsMap" : {
  "ARN" : {
    "beanStyleGetterMethodName" : "getArn",
    "beanStyleSetterMethodName" : "setArn",
    "c2jName" : "ARN",
    "c2jShape" : "ARN",
    "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt; Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch
domain to which the tags are attached that you want to view.&lt;/p&gt;&lt;param name="arn"&gt; Specify the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch
domain to which the tags are attached that you want to view.&lt;/p&gt;This is a convenience that creates an instance of
the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()} 
When the
{ @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to
@link #arn(String)\n@param arn a consumer that will call methods on @link String.Builder\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #arn(String)\n
"deprecated" : false,
"documentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>\n@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "arn",
"getterDocumentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.\n@returns Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "querystring",
"marshallLocation" : "QUERY_PARAM",
"marshallLocationName" : "arn",
"queryString" : true,
"statusCode" : false,
"unmarshallLocationName" : "arn",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN"
"setterDocumentation": "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view. </p>
@param arn Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view. ",

"setterMethodName": "setArn",

"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},

"simple": true,

timestampFormat": null,

"variable": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view. </p>

"simpleType": "String",

"variableSetterType": "String"
},

"xmlNameSpaceUri": null
},

"nonStreamingMembers": [ {
  "beanStyleGetterMethodName": "getArn",
  "beanStyleSetterMethodName": "setArn",
  "c2jName": "ARN",
  "c2jShape": "ARN",
  "defaultConsumerFluentSetterDocumentation": "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view. </p>

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #arn(String)}. a consumer that will call methods on { @link String.Builder} Returns a reference to this object so that method calls can be chained together.<p> See #arn(String)"

"deprecated": false,

"documentation": "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view. </p>

"enumType": null,

"eventHeader": false,

"eventPayload": false,

"fluentEnumGetterMethodName": null,

"fluentEnumSetterMethodName": null,

"fluentGetterMethodName": "arn",

"fluentSetterDocumentation": "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view. </p>

@<param arn Specify the <code>ARN</code> for the Elasticsearch
domain to which the tags are attached that you want to view.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "arn",
"getterDocumentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.
</p>
@return Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.
",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : "querystring",
 "marshallLocation" : "QUERY_PARAM",
 "marshallLocationName" : "arn",
 "queryString" : true,
 "statusCode" : false,
 "unmarshallLocationName" : "arn",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
 "name" : "ARN",
 "setterDocumentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.
</p>
@param arn Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.
",
"setterMethodName" : "setArn",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "arn",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
 },
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String",
  "documentation" : "<p> Specify the <code>ARN</code> for the Elasticsearch domain to which the tags are attached that you want to view.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "ARN" ],
"shapeName" : "ListTagsRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "ListTagsRequest",
  "variableName" : "listTagsRequest",
  "variableType" : "ListTagsRequest",
  "documentation" : null,
  "simpleType" : "ListTagsRequest",
  "variableSetterType" : "ListTagsRequest"
},
"wrapper" : false
},
"ListTagsResponse" : {
  "c2jName" : "ListTagsResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>The result of a <code>ListTags</code> operation. Contains tags for all requested Elasticsearch domains.</p>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getTagList",
  "beanStyleSetterMethodName" : "setTagList",
  "c2jName" : "TagList",
  "c2jShape" : "TagList",
  "defaultConsumerFluentSetterDocumentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>
  This is a convenience that creates an instance of the { @link List<Tag>.Builder} avoiding the need to create one manually via { @link List<Tag>#builder()}.
  When the { @link Consumer} completes, { @link List<Tag>.Builder#build()} is called immediately and its result is passed to { @link 
  tagList(List<Tag>)}.<p>@param tagList a consumer that will call methods on { @link List<Tag>.Builder}</p>
  @return Returns a reference to this object so that method calls can be chained together.@see #tagList(List<Tag>)
  "dePRECATED" : false,
  "documentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "tagList",
  "fluentSetterDocumentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>
  "getterDocumentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>
  "getterModel" : {
    "returnType" : "java.util.List<Tag>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "TagList",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "TagList",
  }
}
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "Tag",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [@link Tag.Builder] avoiding the need to create one
manually via [@link Tag.Builder()].\nWhen the [@link Consumer] completes, [@link Tag.Builder#build()]
is called immediately and its result is passed to [@link #member(Tag)].\nThe @param member a consumer that will call
methods on [@link Tag.Builder]\n\n@return Returns a reference to this object so that method calls can be chained
together.\n@see #member(Tag)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@return Returns a reference to this object so that method
calls can be chained together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of
the Member property for this object.",
  "getterModel" : {
    "returnType" : "Tag",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",}
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",

"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : {

"variableDeclarationType" : "Tag",
"variableName" : "member",
"variableType" : "Tag",
"documentation" : null,
"simpleType" : "Tag",
"variableSetterType" : "Tag"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "Tag",
"variableName" : "member",
"variableType" : "Tag",
"documentation" : "",
"simpleType" : "Tag",
"variableSetterType" : "Tag"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "Tag",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "Tag",
"templateImplType" : "java.util.ArrayList<Tag>",
"templateType" : "java.util.List<Tag>"}
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagList",
"setterDocumentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>
@param tagList List of <code>Tag</code> for the requested Elasticsearch domain.",
"setterMethodName" : "setTagList",
"setterModel" : {
    "variableDeclarationType" : "java.util.List<Tag>",
    "variableName" : "tagList",
    "variableType" : "java.util.List<Tag>",
    "documentation" : null,
    "simpleType" : "List<Tag>",
    "variableSetterType" : "java.util.Collection<Tag>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.List<Tag>",
    "variableName" : "tagList",
    "variableType" : "java.util.List<Tag>",
    "documentation" : "List of <code>Tag</code> for the requested Elasticsearch domain.",
    "simpleType" : "List<Tag>",
    "variableSetterType" : "java.util.Collection<Tag>",
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
    "TagList" : {
        "beanStyleGetterMethodName" : "getTagList",
        "beanStyleSetterMethodName" : "setTagList",
        "c2jName" : "TagList",
        "c2jShape" : "TagList",
        "defaultConsumerFluentSetterDocumentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link List<Tag>.Builder} avoiding the need to create one manually via {@link List<Tag>#builder()}. When the {@link Consumer} completes, {@link List<Tag>.Builder#build()} is called immediately and its result is passed to {@link List/List(List<Tag>)}.

@n@return
Returns a reference to this object so that method calls can be chained together.
@n@see #tagList(List<Tag>)",
"deprecated" : false,
"documentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagList",
"fluentSetterDocumentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch
domain.

@param tagList List of <code>Tag</code> for the requested Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "tagList",
"getterDocumentation" : "<p>List of <code>Tag</code> for the requested Elasticsearch domain.</p>

@throws UnsupportedOperationException

Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

@return List of <code>Tag</code> for the requested Elasticsearch domain.

"getterModel" : {
  "returnType" : "java.util.List<Tag>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "TagList",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "TagList",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "Tag",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object.\nThis is a convenience that creates an instance of the [@link Tag.Builder] avoiding the need to create one
manually via [@link Tag#builder()].\nWhen the [@link Consumer] completes, [@link Tag.Builder#build()] is
called immediately and its result is passed to [@link #member(Tag)].\n@throws UnsupportedOperationException\nAttempts to modify the collection returned by this method will result in an
UnsupportedOperationException.\n@return Returns a reference to this object so that method calls can be chained
together.\n@see #member(Tag)",
  "deprecated" : false,
  "documentation" : "",
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"fluentEnumGetterMethodName" : null,
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"fluentSetterDocumentation" : "Sets the value of the Member property for this object.
@param member
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.",
"getterModel" : {
   "returnType" : "Tag",
   "documentation" : null
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   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "member",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "member",
   "uri" : false
},
"idempotencyToken" : false,
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"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
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   "variableName" : "member",
   "variableType" : "Tag",
   "documentation" : null,
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"variableSetterType" : "Tag"
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"variableName" : "member",
"variableType" : "Tag",
"documentation" : "",
"simpleType" : "Tag",
"variableSetterType" : "Tag"
},
"xmlNameSpaceUri" : null
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"memberLocationName" : null,
"memberType" : "Tag",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "Tag",
"templateImplType" : "java.util.ArrayList<Tag>",
"templateType" : "java.util.List<Tag>
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagList",
"setterDocumentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain.</p>\n\n@param tagList List of <code>Tag</code> for the requested Elasticsearch domain.",
"setterMethodName" : "setTagList",
"setterModel" : {

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"variableName" : "tagList",
"variableType" : "java.util.List<Tag>",
"documentation" : null,
"simpleType" : "List<Tag>",
"variableSetterType" : "java.util.Collection<Tag>"
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"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<Tag>",
"variableName" : "tagList",
"variableType" : "java.util.List<Tag>",
"documentation" : "<p> List of <code>Tag</code> for the requested Elasticsearch domain.</p>",
"simpleType" : "List<Tag>",
"variableSetterType" : "java.util.Collection<Tag>",
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getTagList",
"beanStyleSetterMethodName" : "setTagList",
"c2jName" : "TagList",
"c2jShape" : "TagList",
"defaultConsumerFluentSetterDocumentation" : "List of <code>Tag</code> for the requested Elasticsearch domain.\n\nThis is a convenience that creates an instance of the \{ @link List<Tag>.Builder \} avoiding the need to create one manually via \{ @link List<Tag>#builder() \}.  When the \{ @link Consumer \} completes, \{ @link List<Tag>.Builder#build() \} is called immediately and its result is passed to \{ @link #tagList(List<Tag>) \}.\n\n@returns a reference to this object so that method calls can be chained together.\n\n@see #tagList(List<Tag>)",
"deprecated" : false,
"documentation" : "List of <code>Tag</code> for the requested Elasticsearch domain.\n\nAttempts to modify the collection returned by this method will result in an \nUnsupportedOperationException.\n\n@returns List of <code>Tag</code> for the requested Elasticsearch domain.\n\n@returns a reference to this object so that method calls can be chained together.\n\n@see #tagList(List<Tag>)",
"enumType" : null,
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"eventPayload" : false,
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"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagList",
"fluentSetterDocumentation" : "List of <code>Tag</code> for the requested Elasticsearch domain.\n\n\n@returns List of <code>Tag</code> for the requested Elasticsearch domain.\n\n@returns a reference to this object so that method calls can be chained together.\n\n@see #tagList(List<Tag>)",
"fluentSetterMethodName" : "tagList",
"getterDocumentation" : "List of <code>Tag</code> for the requested Elasticsearch domain.\n\n\n@returns List of <code>Tag</code> for the requested Elasticsearch domain.\n\n@returns a reference to this object so that method calls can be chained together.\n\n@see #tagList(List<Tag>)",
"getterModel" : {
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"documentation" : null
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"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
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"marshallLocationName" : "TagList",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TagList",
"uri" : false
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "Tag",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [ @link Tag.Builder] avoiding the need to create one manually via [ @link Tag#builder()]. When the [ @link Consumer] completes, [ @link Tag.Builder#build()] is called immediately and its result is passed to [ @link #member(Tag)].
@see #member(Tag)",
"deprecated" : false,
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"enumType" : null,
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"eventPayload" : false,
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"fluentEnumSetterMethodName" : null,
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"fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object. @return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object. @return The value of the Member property for this object.",
"getterModel" : {
  "returnType" : "Tag",
  "documentation" : null
},
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  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
"location" : null,
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"marshallLocationName" : "member",
"queryString" : false,
"statusId" : false,
"unmarshallLocationName" : "member",
"uri" : false
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
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  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : null,
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
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"timestampFormat" : null,
"variable" : {
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  "variableName" : "member",
  "variableType" : "Tag",
  "documentation" : "",
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "Tag",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "Tag",
"templateImplType" : "java.util.ArrayList<Tag>",
"variableAdditionalMarshallingPath" : null,
"variableAdditionalUnmarshallingPath" : null,
"variableDeclarationType" : "Tag",
"variableName" : "member",
"variableType" : "Tag",
"documentation" : null,
"simpleType" : "Tag",
"variableSetterType" : "Tag"
"templateType" : "java.util.List<Tag">
],
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
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"setterMethodName" : "setTagList",
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  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "documentation" : null,
  "simpleType" : "List<Tag>",
  "variableSetterType" : "java.util.Collection<Tag>"
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  "variableName" : "tagList",
  "variableType" : "java.util.List<Tag>",
  "documentation" : "List of <code>Tag</code> for the requested Elasticsearch domain.",
  "simpleType" : "List<Tag>",
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"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
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  "variableName" : "listTagsResponse",
  "variableType" : "ListTagsResponse",
  "documentation" : null,
  "simpleType" : "ListTagsResponse",
  "variableSetterType" : "ListTagsResponse"
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"wrapper" : false
},
"LogPublishingOption" : {
  "c2jName" : "LogPublishingOption",
  "customization" : {
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    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Log Publishing option that is set for given domain. Attributes and their details: 
  CloudWatchLogsLogGroupArn: ARN of the Cloudwatch log group to which log needs to be published.
  Enabled: Whether the log publishing for given log type is enabled or not.
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [
    "beanStyleGetterMethodName" : "getCloudWatchLogsLogGroupArn",
    "beanStyleSetterMethodName" : "setCloudWatchLogsLogGroupArn",
    "c2jName" : "CloudWatchLogsLogGroupArn",
    "c2jShape" : "CloudWatchLogsLogGroupArn",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this object. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.Builder(). When the @link Consumer completes, String.Builder.build() is called immediately and its result is passed to CloudWatchLogsLogGroupArn a consumer that will call methods on String.Builder@return Returns a reference to this object so that method calls can be chained together.",
    "deprecated" : false,
    "documentation" : ",",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "cloudWatchLogsLogGroupArn",
    "fluentSetterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this object.
    @param cloudWatchLogsLogGroupArn The new value for the CloudWatchLogsLogGroupArn property for this object.
    @return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "cloudWatchLogsLogGroupArn",
  ]
}
"getterDocumentation": "Returns the value of the CloudWatchLogsLogGroupArn property for this object.
@returns The value of the CloudWatchLogsLogGroupArn property for this object."
,"getterModel": {
"returnType": "String",
"documentation": null
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"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallingLocationName": "CloudWatchLogsLogGroupArn",
"queryString": false,
"statusCode": false,
"unmarshallingLocationName": "CloudWatchLogsLogGroupArn",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "CloudWatchLogsLogGroupArn",
"setterDocumentation": "Sets the value of the CloudWatchLogsLogGroupArn property for this object.

@param cloudWatchLogsLogGroupArn The new value for the CloudWatchLogsLogGroupArn property for this object."
,"setterMethodName": "setCloudWatchLogsLogGroupArn",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "cloudWatchLogsLogGroupArn",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "cloudWatchLogsLogGroupArn",}
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsSpaceUri" : null
], {
  "beanStyleGetterMethodName" : "getEnabled",
  "beanStyleSetterMethodName" : "setEnabled",
  "c2jName" : "Enabled",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not.</p><p>This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #enabled(Boolean)}.<br>
@return Returns a reference to this object so that method calls can be chained together.<br>
</p>
"deprecated" : false,
"documentation" : "<p> Specifies whether given log publishing option is enabled or not.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "enabled",
"fluentSetterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not.</p><p> Specifies whether given log publishing option is enabled or not.</p><p>Returns a reference to this object so that method calls can be chained together."
          
"fluentSetterMethodName" : "enabled",
"getterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not.</p>"
          
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    "documentation" : null
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    "additionalUnmarshallingPath" : null,
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    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Enabled",
    "queryString" : false,
    "statusCode" : false,
"unmarshallLocationName" : "Enabled",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
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@param enabled Specifies whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
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  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
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  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
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"xmlNameSpaceUri" : null
},
"membersAsMap" : {
  "CloudWatchLogsLogGroupArn" : {
    "beanStyleGetterMethodName" : "getCloudWatchLogsLogGroupArn",
    "beanStyleSetterMethodName" : "setCloudWatchLogsLogGroupArn",
    "c2jName" : "CloudWatchLogsLogGroupArn",
    "c2jShape" : "CloudWatchLogsLogGroupArn",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this object. This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder]. When the [Consumer] completes, [String.Builder#build] is called immediately and its result is passed to [CloudWatchLogsLogGroupArn(String)].
@see #cloudWatchLogsLogGroupArn(String)"
  }
}
"variableDeclarationType": "String",
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"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
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"simple": true,
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  "variableName": "cloudWatchLogsLogGroupArn",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"Enabled": {
  "beanStyleGetterMethodName": "getEnabled",
  "beanStyleSetterMethodName": "setEnabled",
  "c2jName": "Enabled",
  "c2jShape": "Boolean",
  "defaultConsumerFluentSetterDocumentation": "<p> Specifies whether given log publishing option is enabled or not. </p>
This is a convenience that creates an instance of the { @link Boolean.Builder } avoiding the need to create one manually via { @link Boolean#builder() }. When the { @link Consumer } completes, { @link Boolean.Builder#build() } is called immediately and its result is passed to { @link #enabled(Boolean) }. @param enabled a consumer that will call methods on { @link Boolean.Builder } @return Returns a reference to this object so that method calls can be chained together.@see #enabled(Boolean)"
,  "deprecated": false,
  "documentation": "<p> Specifies whether given log publishing option is enabled or not. </p>
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  "eventPayload": false,
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  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "enabled",
  "fluentSetterDocumentation": "<p> Specifies whether given log publishing option is enabled or not. </p>
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  "getterDocumentation": "<p> Specifies whether given log publishing option is enabled or not. </p>
  "getterModel": {
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    "documentation": null
  }
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"http" : {
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    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Enabled",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Enabled",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"setterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not.</p>
@param
enabled Specifies whether given log publishing option is enabled or not.
"setterMethodName" : "setEnabled",
"setterModel" : {
    "variableDeclarationType" : "Boolean",
    "variableName" : "enabled",
    "variableType" : "Boolean",
    "documentation" : null,
    "simpleType" : "Boolean",
    "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
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    "variableName" : "enabled",
    "variableType" : "Boolean",
    "documentation" : "<p> Specifies whether given log publishing option is enabled or not.</p>
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
}
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getCloudWatchLogsLogGroupArn",
  "beanStyleSetterMethodName" : "setCloudWatchLogsLogGroupArn",
  "c2jName" : "CloudWatchLogsLogGroupArn",
  "c2jShape" : "CloudWatchLogsLogGroupArn",
  "defaultValueConsumerSetterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this object.\n  This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String.Builder\} when the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link CloudWatchLogsLogGroupArn(String)\}.\n  \n  @param cloudWatchLogsLogGroupArn a consumer that will call methods on \{@link String.Builder\}\n  \n  @return Returns a reference to this object so that method calls can be chained together.\n  \n  @see #cloudWatchLogsLogGroupArn(String)\n  \n  "deprecated" : false,
  "documentation" : "",
  "eventType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "cloudWatchLogsLogGroupArn",
  "fluentSetterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this object.\n  \n  @param cloudWatchLogsLogGroupArn The new value for the CloudWatchLogsLogGroupArn property for this object.\n  \n  @return Returns a reference to this object so that method calls can be chained together.\n  \n  "fluentSetterMethodName" : "cloudWatchLogsLogGroupArn",
  "getterDocumentation" : "Returns the value of the CloudWatchLogsLogGroupArn property for this object.\n  \n  @return The value of the CloudWatchLogsLogGroupArn property for this object.\n  \n  "getterModel" : {\n    "returnType" : "String",
    "documentation" : null
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    "additionalUnmarshallingPath" : null,
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    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "CloudWatchLogsLogGroupArn",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "CloudWatchLogsLogGroupArn",
    "uri" : false
  },
  "idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CloudWatchLogsLogGroupArn",
"setterDocumentation" : "Sets the value of the CloudWatchLogsLogGroupArn property for this object."

@attr 

@param cloudWatchLogsLogGroupArn The new value for the CloudWatchLogsLogGroupArn property for this object.

"setterMethodName" : "setCloudWatchLogsLogGroupArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "cloudWatchLogsLogGroupArn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
}
,"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "cloudWatchLogsLogGroupArn",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
}
,"xmlNameSpaceUri" : null
",
  "beanStyleGetterMethodName" : "getEnabled",
  "beanStyleSetterMethodName" : "setEnabled",
  "c2jName" : "Enabled",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "\n<p> Specifies whether given log publishing option is enabled or not.\n\nThis is a convenience that creates an instance of the \{ Boolean.Builder \} avoiding the need to create one manually via \{ Boolean#builder() \}.\n\nWhen the \{ Consumer \} completes, \{ Boolean.Builder#build() \} is called immediately and its result is passed to \{ Boolean#enabled(Boolean) \}.\n\n@attr

@param enabled a consumer that will call methods on \{ Boolean.Builder \}\n@see \#enabled(Boolean)
\n@returns Returns a reference to this object so that method calls can be chained together.\n@see \#enabled(Boolean)"
  "deprecated" : false,
  "documentation" : "\n<p> Specifies whether given log publishing option is enabled or not.\n\n\n@attr

@param enumType \{ null, \n@eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
}
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "enabled",
"fluentSetterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not. </p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "enabled",
"getterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not. </p>
@return Specifies whether given log publishing option is enabled or not.",
"getModel" : {
"returnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Enabled",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Enabled",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"setterDocumentation" : "<p> Specifies whether given log publishing option is enabled or not. </p>
@param enabled Specifies whether given log publishing option is enabled or not.
@return Indicates whether given log publishing option is enabled or not.",
"setterMethodName" : "setEnabled",
"setterModel" : {
"variableDeclarationType" : "Boolean",
"variableName" : "enabled",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"}
}
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "Boolean",
"variableName": "enabled",
"variableType": "Boolean",
"documentation": "<p>Specifies whether given log publishing option is enabled or not.</p>",
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null
},
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "LogPublishingOption",
"simpleMethod": false,
"unmarshaller": {
"flattened": false,
"resultWrapper": null
},
"variable": {
"variableDeclarationType": "LogPublishingOption",
"variableName": "logPublishingOption",
"variableType": "LogPublishingOption",
"documentation": null,
"simpleType": "LogPublishingOption",
"variableSetterType": "LogPublishingOption"
},
"wrapper": false
},
"LogPublishingOptionsStatus": {
"c2jName": "LogPublishingOptionsStatus",
"customization": {
"artificialResultWrapper": null,
"skipGeneratingMarshaller": false,
"skipGeneratingModelClass": false,
"skipGeneratingUnmarshaller": false,
"staxTargetDepthOffset": 0
},
"deprecated": false,
"documentation": "<p>The configured log publishing options for the domain and their current status.</p>",
"enums": null,
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshallerc" : null,
"members" : [ ]
"beanStyleGetterMethodName" : "getOptionsAsStrings",
"beanStyleSetterMethodName" : "setOptionsWithStrings",
"c2jName" : "Options",
"c2jShape" : "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link
Map<String,LogPublishingOption>.Builder} avoiding the need to create one manually via { @link
Map<String,LogPublishingOption>#builder()}. When the { @link Consumer} completes, { @link
Map<String,LogPublishingOption>.Builder#build()} is called immediately and its result is passed to { @link
#optionsAsStrings(Map<String,LogPublishingOption>)}. @param options a consumer that will call methods on
{ @link Map<String,LogPublishingOption>.Builder} @return Returns a reference to this object so that method
calls can be chained together.@see #optionsWithStrings(Map<String,LogPublishingOption>)",

"deprecated" : false,
"documentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "options",
"fluentEnumSetterMethodName" : "options",
"fluentGetterMethodName" : "optionsAsStrings",
"fluentSetterDocumentation" : "<p>The log publishing options configured for the Elasticsearch
domain.</p>
@param options The log publishing options configured for the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName" : "optionsWithStrings",
"getterDocumentation" : "<p>The log publishing options configured for the Elasticsearch
domain.</p>
@returns Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException. @returns The log publishing options configured for the Elasticsearch
domain."

"getterModel" : {
"returnType" : "java.util.Map<String,LogPublishingOption>",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",

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"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKeyAsString",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "LogType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #keyAsString(String)}.

@see LogType

@returns Returns a reference to this object so that method calls can be chained together.
@see #key(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : "LogType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "key",
  "fluentEnumSetterMethodName" : "key",
  "fluentGetterMethodName" : "keyAsString",
  "fluentSetterDocumentation" : "Sets the value of the Key property for this object. The new value for the Key property for this object.
@see LogType
@returns Returns a reference to this object so that method calls can be chained together.
@see LogType",
  "fluentSetterMethodName" : "key",
  "getterDocumentation" : "Returns the value of the Key property for this object. If the service returns an enum value that is not available in the current SDK version, { @link #key} will return { @link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link #keyAsString}."

@returns The value of the Key property for this object.
@see LogType",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  }
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.  
This is a convenience that creates an instance of the \{ @link LogPublishingOption.Builder \} avoiding the need to create one manually via \{ @link LogPublishingOption#builder() \}. 
When the \{ @link Consumer \} completes, \{ @link LogPublishingOption.Builder#build() \} is called immediately and its result is passed to \{ @link 
#value(LogPublishingOption) \}.  
@param value a consumer that will call methods on \{ @link LogPublishingOption.Builder \} 
@return Returns a reference to this object so that method calls can be chained together.  
@see #value(LogPublishingOption)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.  
new value for the Value property for this object.  
@return Returns a reference to this object so that method calls can be chained together.  
@see #value(LogPublishingOption)",
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.  
@return The value of the Value property for this object.",
  "getterModel" : {
    "returnType" : "LogPublishingOption",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "value",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "value",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Value",
"setterDocumentation": "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.",
"setterMethodName": "setValue",
"setterModel": {
  "variableDeclarationType": "LogPublishingOption",
  "variableName": "value",
  "variableType": "LogPublishingOption",
  "documentation": null,
  "simpleType": "LogPublishingOption",
  "variableSetterType": "LogPublishingOption"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "LogPublishingOption",
  "variableName": "value",
  "variableType": "LogPublishingOption",
  "documentation": null,
  "simpleType": "LogPublishingOption",
  "variableSetterType": "LogPublishingOption"
},
"xmlNameSpaceUri": null,
"entryType": "Map.Entry<String, LogPublishingOption>",
"templateType": "java.util.Map<String,LogPublishingOption>"
},
"marshallingType": "MAP",
"name": "Options",
"setterDocumentation": "The log publishing options configured for the Elasticsearch domain.\n\n@param options The log publishing options configured for the Elasticsearch domain."
,"setterMethodName": "setOptionsWithStrings",
"setterModel": {
  "variableDeclarationType": "java.util.Map<String,LogPublishingOption>",
  "variableName": "options",
  "variableType": "java.util.Map<String,LogPublishingOption>",
  "documentation": null,
  "simpleType": "Map<String,LogPublishingOption>",
  "variableSetterType": "java.util.Map<String,LogPublishingOption>"
},
"simple": false,
"timestampFormat": null,
"variable" : {
    "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
    "variableName" : "options",
    "variableType" : "java.util.Map<String,LogPublishingOption>",
    "documentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>",
    "simpleType" : "Map<String,LogPublishingOption>",
    "variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri" : null
}

"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>
This is a convenience that creates an instance of the [ @link OptionStatus.Builder] avoiding the need to create one manually via { @link OptionStatus.Builder#builder()} .
When the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link status(OptionStatus)} .

When the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link status(OptionStatus)} .

@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>
@see #status(OptionStatus)",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>
@see #status(OptionStatus)",
"getterModel" : {
    "returnType" : "OptionStatus",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "The status of the log publishing options for the Elasticsearch domain. See \ref{OptionStatus} for the status information that's included.\n\n\@param status The status of the log publishing options for the Elasticsearch domain. See \ref{OptionStatus} for the status information that's included.\n",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "The status of the log publishing options for the Elasticsearch domain. See \ref{OptionStatus} for the status information that's included.\n",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {

}}
"Options" : {
  "beanStyleGetterMethodName" : "getOptionsAsStrings",
  "beanStyleSetterMethodName" : "setOptionsWithStrings",
  "c2jName" : "Options",
  "c2jShape" : "LogPublishingOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>
  This is a convenience that creates an instance of the `Map<String,LogPublishingOption>`.Builder via `Map<String,LogPublishingOption>#builder()`. When the `Consumer` completes, `Map<String,LogPublishingOption>.Builder#build()` is called immediately and its result is passed to `Map<String,LogPublishingOption>#optionsAsStrings(Map<String,LogPublishingOption>)`. Returns a reference to this object so that method calls can be chained together.

  "documentation" : "The log publishing options configured for the Elasticsearch domain.",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "options",
  "fluentEnumSetterMethodName" : "options",
  "fluentGetterMethodName" : "optionsAsStrings",
  "fluentSetterDocumentation" : "The log publishing options configured for the Elasticsearch domain.
  @param options The log publishing options configured for the Elasticsearch domain.
  @return Returns a reference to this object so that method calls can be chained together.",

  "fluentSetterMethodName" : "optionsWithStrings",
  "getterDocumentation" : "The log publishing options configured for the Elasticsearch domain.
  Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
  @return The log publishing options configured for the Elasticsearch domain.",

  "getterModel" : {
    "returnType" : "java.util.Map<String,LogPublishingOption>",
    "documentation" : null
  },

  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Options",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Options",
    "uri" : false
  }
}
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via{@link String.Builder#builder()}. When the {@link String.Builder} completes,{@link String.Builder#build()} is called immediately and its result is passed to{@link String#builder }.

When the service returns an enum value that is not available in the current SDK version, {@link LogType} will return {@link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link LogType#keyAs(String)}. If the service returns an enum value that is not available in the current SDK version, {@link LogType} will return {@link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link LogType#keyAs(String)}.

### Documentation

The new value for the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, {@link LogType} will return {@link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link LogType#keyAs(String)}.

The new value for the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, {@link LogType} will return {@link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link LogType#keyAs(String)}.
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n@param key The new value for the Key property for this object.\n@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "key",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"valueLocationName" : "value",
"valueModel" : {
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "value",
"c2jShape" : "LogPublishingOption"}
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the [LogPublishingOption.Builder] avoiding the need to create one manually via [LogPublishingOption.Builder#build()]. When the [Consumer] completes, [LogPublishingOption.Builder#build()] is called immediately and its result is passed to [LogPublishingOption.Builder#build()].

@see #value(LogPublishingOption)

@return Returns a reference to this object so that method calls can be chained together.

@deprecated
@see #value(LogPublishingOption)

"documentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the [LogPublishingOption.Builder] avoiding the need to create one manually via [LogPublishingOption.Builder#build()]. When the [Consumer] completes, [LogPublishingOption.Builder#build()] is called immediately and its result is passed to [LogPublishingOption.Builder#build()].

@see #value(LogPublishingOption)

@return Returns a reference to this object so that method calls can be chained together.

@deprecated
@see #value(LogPublishingOption)

"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.

@deprecated
@see #value(LogPublishingOption)

"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.

@return The value of the Value property for this object.

getterModel" : {
  "returnType" : "LogPublishingOption",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "value",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallerType":"SDK_POJO",
"name":"Value",
"setterDocumentation":"Sets the value of the Value property for this object.
\n@\n@param value The new value for the Value property for this object.",
"setterMethodName":"setValue",
"setterModel":{
"variableDeclarationType":"LogPublishingOption",
"variableName":"value",
"variableType":"LogPublishingOption",
"documentation":null,
"simpleType":"LogPublishingOption",
"variableSetterType":"LogPublishingOption"
},
"simple":false,
"timestampFormat":null,
"variable":{
"variableDeclarationType":"LogPublishingOption",
"variableName":"value",
"variableType":"LogPublishingOption",
"documentation":null,
"variableSetterType":"LogPublishingOption",
"xmlNameSpaceUri":null,
"entryType":"Map.Entry<String, LogPublishingOption>",
"templateType":"java.util.Map<String,LogPublishingOption>"
},
"marshallerType":"MAP",
"name":"Options",
"setterDocumentation":"<p>The log publishing options configured for the Elasticsearch domain.</p>
@\n@param options The log publishing options configured for the Elasticsearch domain.",
"setterMethodName":"setOptionsWithStrings",
"setterModel":{
"variableDeclarationType":"java.util.Map<String,LogPublishingOption>",
"variableName":"options",
"variableType":java.util.Map<String,LogPublishingOption>",
"documentation":null,
"simpleType":"Map<String,LogPublishingOption>",
"variableSetterType":java.util.Map<String,LogPublishingOption>"
},
"simple":false,
"timestampFormat":null,
"variable":{
"variableDeclarationType":"java.util.Map<String,LogPublishingOption>",
"variableName":"options",
"variableType":java.util.Map<String,LogPublishingOption>",
"documentation":null,
"simpleType":"Map<String,LogPublishingOption>",
"variableSetterType":"java.util.Map<String,LogPublishingOption>"
},
"simple":false,
"timestampFormat":null,
"variable":{
"variableDeclarationType":"java.util.Map<String,LogPublishingOption>",
"variableName":"options",
"variableType":java.util.Map<String,LogPublishingOption>",
"documentation":null,
"simpleType":"Map<String,LogPublishingOption>"
},
"simple":false,
"timestampFormat":null,
"variable":{
"variableDeclarationType":"java.util.Map<String,LogPublishingOption>",
"variableName":"options",
"variableType":java.util.Map<String,LogPublishingOption>",
"documentation":null,
"simpleType":"Map<String,LogPublishingOption>"
},
"simple":false,
"timestampFormat":null,
"variable":{
"variableDeclarationType":"java.util.Map<String,LogPublishingOption>",
"variableName":"options",
"variableType":java.util.Map<String,LogPublishingOption>",
"documentation":null,
"simpleType":"Map<String,LogPublishingOption>"
},
"simple":false,
"timestampFormat":null,
"variable":{
"variableDeclarationType":"java.util.Map<String,LogPublishingOption>",
"variableName":"options",
"variableType":java.util.Map<String,LogPublishingOption>",
"documentation":null,
"simpleType":"Map<String,LogPublishingOption>"
},
"simple":false,
"timestampFormat":null,
"variable":{
"variableDeclarationType":"java.util.Map<String,LogPublishingOption>",
"variableName":"options",
"variableType":java.util.Map<String,LogPublishingOption>",
"documentation":null,
"simpleType":"Map<String,LogPublishingOption>"
},
"simple":false,
"timestampFormat":null,
"variable":{
"variableDeclarationType":"java.util.Map<String,LogPublishingOption>",
"variableName":"options",
"variableType":java.util.Map<String,LogPublishingOption>",
"documentation":null,
"simpleType":"Map<String,LogPublishingOption>"}
"simpleType" : "Map<String,LogPublishingOption>",
"variableSetterType" : "java.util.Map<String,LogPublishingOption>
}
,"xmlNameSpaceUri" : null
},
"Status" : {
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>
This is a convenience that creates an instance of the [ @link OptionStatus.Builder] avoiding the need to create one manually via [ @link OptionStatus#builder()].

When the [ @link Consumer] completes, [ @link OptionStatus.Builder#build()] is called immediately and its result is passed to [ @link OptionStatus].

@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.
</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

@param status The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

@return Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"setterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>\n@param status The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",

"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},

"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
}]

"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getOptionsAsStrings",
    "beanStyleSetterMethodName" : "setOptionsWithStrings",
    "c2jName" : "Options",
    "marshallLocationName" : "Status",
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Status",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Status",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "SDK_POJO",
  "name" : "Status",
  "setterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>\n@param status The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",

  "setterMethodName" : "setStatus",
  "setterModel" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : null,
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
  },
  "simple" : false,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>",
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
  },
  "xmlNameSpaceUri" : null
}]}
"c2jShape" : "LogPublishingOptions",
        "defaultConsumerFluentSetterDocumentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link Map<String,LogPublishingOption>.Builder} avoiding the need to create one manually via { @link Map<String,LogPublishingOption>#builder()}. When the { @link Consumer} completes, { @link Map<String,LogPublishingOption>.Builder#build()} is called immediately and its result is passed to { @link #optionsAsStrings(Map<String,LogPublishingOption>)}.<p>@param options a consumer that will call methods on { @link Map<String,LogPublishingOption>.Builder}.</p>@return Returns a reference to this object so that method calls can be chained together.</p><p>@see #optionsWithStrings(Map<String,LogPublishingOption>)</p>

        "deprecated" : false,
        "documentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>

        "enumType" : null,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : "options",
        "fluentEnumSetterMethodName" : "options",
        "fluentGetterMethodName" : "optionsAsStrings",
        "fluentSetterDocumentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>

        "idempotencyToken" : false,
        "isBinary" : false,
        "jsonValue" : false,
null

"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKeyAsString",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "LogType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #keyAsString(String)}. @param key a consumer that will call methods on { @link String.Builder} @return Returns a reference to this object so that method calls can be chained together.@see #key(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : "LogType",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "key",
  "fluentEnumSetterMethodName" : "key",
  "fluentGetterMethodName" : "keyAsString",
  "fluentSetterDocumentation" : "Sets the value of the Key property for this object.

The new value for the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, { @link #key} will return { @link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link #keyAsString}.@return The value of the Key property for this object.@see LogType",
  "fluentSetterMethodName" : "key",
  "getterDocumentation" : "Returns the value of the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, { @link #key} will return { @link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link #keyAsString}.

@see LogType",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
  },
"marshallLocationName": "key",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "key",
"uri": false}
],
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"setterDocumentation": "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n\n@see LogType",
"setterMethodName": "setKey",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "key",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
],
"valueLocationName": "value",
"valueModel": {
  "beanStyleGetterMethodName": "getValue",
  "beanStyleSetterMethodName": "setValue",
  "c2jName": "value",
  "c2jShape": "LogPublishingOption",
  "defaultConsumerFluentSetterDocumentation": "Sets the value of the Value property for this object.\n\nThis is a convenience that creates an instance of the {\link LogPublishingOption.Builder} avoiding the need to create one manually via {\link LogPublishingOption#builder()}.\n\nWhen the {\link Consumer} completes, {\link LogPublishingOption.Builder#build()} is called immediately and its result is passed to {\link
#value(LogPublishingOption)\n@param value a consumer that will call methods on

LogPublishingOption.Builder

@return Returns a reference to this object so that method calls can be chained
together.

@see #value(LogPublishingOption)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.

@return Returns a reference to this object so that method calls can be chained together.\n
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.\n
@return The value of the Value property for this object."

"getterModel" : {
"returnType" : "LogPublishingOption",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.\n
@return The new value for the Value property for this object."
"setterMethodName" : "setValue",
"setterModel" : {
    "variableDeclarationType" : "LogPublishingOption",
    "variableName" : "value",
    "variableType" : "LogPublishingOption",
    "documentation" : null,
    "simpleType" : "LogPublishingOption",
    "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "LogPublishingOption",
    "variableName" : "value",
    "variableType" : "LogPublishingOption",
    "documentation" : null,
    "simpleType" : "LogPublishingOption",
    "variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "Options",
"setterDocumentation" : "<p>The log publishing options configured for the Elasticsearch domain.

@param options The log publishing options configured for the Elasticsearch domain."
"setterMethodName" : "setOptionsWithStrings",
"setterModel" : {
    "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
    "variableName" : "options",
    "variableType" : "java.util.Map<String,LogPublishingOption>",
    "documentation" : null,
    "simpleType" : "Map<String,LogPublishingOption>",
    "variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
    "variableName" : "options",
    "variableType" : "java.util.Map<String,LogPublishingOption>",
    "documentation" : "<p>The log publishing options configured for the Elasticsearch domain.</p>",
    "simpleType" : "Map<String,LogPublishingOption>",
    "variableSetterType" : "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri" : null
The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. This is a convenience that creates an instance of the [OptionStatus.Builder] avoiding the need to create one manually via [OptionStatus.Builder#build()]. When the [Consumer] completes, the [OptionStatus.Builder#build()] function is called immediately and its result is passed to the [OptionStatus.Builder] function. Returns a reference to this object so that method calls can be chained together.

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The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

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The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.

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The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>
@param status The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included.",
"setterMethodName" : "setStatus",
"setterModel" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : null,
    "simpleType" : "OptionStatus",
    "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
]
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "LogPublishingOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
    "flattened" : false,
    "resultWrapper" : null
},
"variable" : {
    "variableDeclarationType" : "OptionStatus",
    "variableName" : "status",
    "variableType" : "OptionStatus",
    "documentation" : "<p>The status of the log publishing options for the Elasticsearch domain. See <code>OptionStatus</code> for the status information that's included. </p>
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
}
"variableDeclarationType": "LogPublishingOptionsStatus",
"variableName": "logPublishingOptionsStatus",
"variableType": "LogPublishingOptionsStatus",
"documentation": null,
"simpleType": "LogPublishingOptionsStatus",
"variableSetterType": "LogPublishingOptionsStatus"
},
"wrapper": false
},
"LogType": {
"c2jName": "LogType",
"customization": {
  "artificialResultWrapper": null,
  "skipGeneratingMarshaller": false,
  "skipGeneratingModelClass": false,
  "skipGeneratingUnmarshaller": false,
  "staxTargetDepthOffset": 0
},
"deprecated": false,
"documentation": "Type of Log File, it can be one of the following:
<ul>
  <li>INDEX_SLOW_LOGS: Index slow logs contain insert requests that took more time than configured index query log threshold to execute.</li>
  <li>SEARCH_SLOW_LOGS: Search slow logs contain search queries that took more time than configured search query log threshold to execute.</li>
  <li>ES_APPLICATION_LOGS: Elasticsearch application logs contain information about errors and warnings raised during the operation of the service and can be useful for troubleshooting.</li>
</ul>

enums": [ {
  "name": "INDEX_SLOW_LOGS",
  "value": "INDEX_SLOW_LOGS"
}, {
  "name": "SEARCH_SLOW_LOGS",
  "value": "SEARCH_SLOW_LOGS"
}, {
  "name": "ES_APPLICATION_LOGS",
  "value": "ES_APPLICATION_LOGS"
} ],
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"marshaller": null,
"members": [ ],
"membersAsMap": [ ],
"nonStreamingMembers": [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "LogType",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "LogType",
  "variableName" : "logType",
  "variableType" : "LogType",
  "documentation" : null,
  "simpleType" : "LogType",
  "variableSetterType" : "LogType"
},
"wrapper" : false
},
"NodeToNodeEncryptionOptions" : {
  "c2jName" : "NodeToNodeEncryptionOptions",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Specifies the node-to-node encryption options.</p>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "marshal" : null,
  "members" : [ {
    "beanStyleGetterMethodName" : "getEnabled",
    "beanStyleSetterMethodName" : "setEnabled",
    "c2jName" : "Enabled",
    "c2jShape" : "Boolean",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specify true to enable node-to-node encryption.</p>\nThis is a convenience that creates an instance of the \[@link Boolean.Builder\] avoiding the need
to create one manually via `<link>Boolean.Builder().` When the `<link>Consumer` completes, `<link>Boolean.Builder#build()` is called immediately and its result is passed to `<link>enabled(Boolean)`. `<param>` enabled a consumer that will call methods on `<link>Boolean.Builder` `<return>` Returns a reference to this object so that method calls can be chained together. `<see>enabled(Boolean)"`,

"deprecated" : false,
"documentation" : "<p>Specify true to enable node-to-node encryption.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "enabled",
"fluentSetterDocumentation" : "<p>Specify true to enable node-to-node encryption.</p>
@param enabled Specify true to enable node-to-node encryption.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "enabled",
"getterDocumentation" : "<p>Specify true to enable node-to-node encryption.</p>
@return Specify true to enable node-to-node encryption.",
"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Enabled",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Enabled",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"setterDocumentation" : "<p>Specify true to enable node-to-node encryption.</p>
@param enabled Specify
true to enable node-to-node encryption.

setterMethodName" : "setEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : "Specify true to enable node-to-node encryption.
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need
to create one manually via {@link Boolean.Builder().\n}When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link enabled(Boolean)}.\n@see #enabled(Boolean)\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #enabled(Boolean)",
  "deprecated" : false,
  "documentation" : "Specify true to enable node-to-node encryption.
@param enabled Specify true to enable node-to-node encryption.
@return Returns a reference to this object so that method calls can be chained together.
@see #enabled(Boolean)",
  " ENUM Type" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "enabled",
  "fluentEnumSetterMethodName" : "enabled",
  "fluentGetterMethodName" : "enabled",
  "fluentSetterMethodName" : "enabled",
  "fluentSetterDocumentation" : "Specify true to enable node-to-node encryption.\n@see #enabled(Boolean)",
  "GETTER MethodName" : "enabled",
  "GETTER Documentation" : "Specify true to enable node-to-node encryption.\n@see #enabled(Boolean)".
"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Enabled",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Enabled",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"setterDocumentation" : "<p>Specify true to enable node-to-node encryption.</p>
@param enabled Specify true to enable node-to-node encryption.",
"setterMethodName" : "setEnabled",
"setterModel" : {
"variableDeclarationType" : "Boolean",
"variableName" : "enabled",
"variableType" : "Boolean",
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Boolean",
"variableName" : "enabled",
"variableType" : "Boolean",
"documentation" : "<p>Specify true to enable node-to-node encryption.</p>",
"simpleType" : "Boolean"}
"variableSetterType": "Boolean",
"nonStreamingMembers": [
    {
        "beanStyleGetterMethodName": "getEnabled",
        "beanStyleSetterMethodName": "setEnabled",
        "c2jName": "Enabled",
        "c2jShape": "Boolean",
        "defaultConsumerFluentSetterDocumentation": "<p>Specify true to enable node-to-node encryption.</p>
This is a convenience that creates an instance of the [@link Boolean.Builder](#) avoiding the need to create one manually via [@link Boolean.Builder](#). When the [@link Consumer](#) completes, [@link Boolean.Builder#build](#) is called immediately and its result is passed to [@link #enabled(Boolean)](#). @param enabled a consumer that will call methods on [@link Boolean.Builder](#) @return Returns a reference to this object so that method calls can be chained together.

    
    "deprecated": false,
    "documentation": "<p>Specify true to enable node-to-node encryption.</p>",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "enabled",
    "fluentSetterDocumentation": "<p>Specify true to enable node-to-node encryption.</p>
@param enabled Specify true to enable node-to-node encryption.
@return Returns a reference to this object so that method calls can be chained together.
",
    "fluentSetterMethodName": "enabled",
    "getterDocumentation": "<p>Specify true to enable node-to-node encryption.</p>
@return Specify true to enable node-to-node encryption.
",
    "getterModel": {
        "returnType": "Boolean",
        "documentation": null
    },
    "http": {
        "additionalMarshallingPath": null,
        "additionalUnmarshallingPath": null,
        "flattened": false,
        "greedy": false,
        "header": false,
        "isPayload": false,
        "isStreaming": false,
        "location": null,
        "marshallLocation": "PAYLOAD",
        "marshallLocationName": "Enabled",
        "queryString": false,
        "statusCode": false,
        "unmarshallLocationName": "Enabled",
    },
"uri" : false,
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Enabled",
"setterDocumentation" : "<p>Specify true to enable node-to-node encryption.</p>
@param enabled Specify true to enable node-to-node encryption.",
"setterMethodName" : "setEnabled",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "enabled",
  "variableType" : "Boolean",
  "documentation" : "<p>Specify true to enable node-to-node encryption.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
}
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "NodeToNodeEncryptionOptions",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "nodeToNodeEncryptionOptions",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
"simpleType" : "NodeToNodeEncryptionOptions",
"variableSetterType" : "NodeToNodeEncryptionOptions"
},
"wrapper" : false
},
"NodeToNodeEncryptionOptionsStatus" : {
"c2jName" : "NodeToNodeEncryptionOptionsStatus",
"customization" : {
 "artificialResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthOffset" : 0
 },
"deprecated" : false,
"documentation" : "<p>Status of the node-to-node encryption options for the specified Elasticsearch domain.</p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshaller" : null,
"members" : [ {
 "beanStyleGetterMethodName" : "getOptions",
 "beanStyleSetterMethodName" : "setOptions",
 "c2jName" : "Options",
 "c2jShape" : "NodeToNodeEncryptionOptions",
 "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>

This is a convenience that creates an instance of the {@link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via {@link NodeToNodeEncryptionOptions#builder()}. When the {@link Consumer} completes, {@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to {@link #options(NodeToNodeEncryptionOptions)}. Returns a reference to this object so that method calls can be chained together.

@see #options(NodeToNodeEncryptionOptions)",
 "deprecated" : false,
 "documentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>"},
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@return Specifies the node-to-node encryption options for the specified Elasticsearch domain.",
"getterModel" : {
  "returnType" : "NodeToNodeEncryptionOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.
@return Specifies the node-to-node encryption options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "options",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "NodeToNodeEncryptionOptions",
  "variableName": "options",
  "variableType": "NodeToNodeEncryptionOptions",
  "documentation": "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>",
  "simpleType": "NodeToNodeEncryptionOptions",
  "variableSetterType": "NodeToNodeEncryptionOptions"
},
"xmlnsNameSpaceUri": null
},

"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain. This is a convenience that creates an instance of the [OptionStatus.Builder] avoiding the need to create one manually via [OptionStatus#builder()]. When the [Consumer] completes, [OptionStatus.Builder#build()] is called immediately and its result is passed to [OptionStatus#status(OptionStatus)].

@see #status(OptionStatus)",

"deprecated": false,
"documentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "status",
"fluentSetterDocumentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",

"fluentSetterMethodName": "status",
"getterDocumentation": "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@return Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.",

"getterModel": {
  "returnType": "OptionStatus",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Status",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Status",
"uri": false,
"
"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p>Specifies the status of the node-to-node encryption options for the specified
Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the
specified Elasticsearch domain.
  "setterMethodName": "setStatus",
  "setterModel": {
    "variableDeclarationType": "OptionStatus",
    "variableName": "status",
    "variableType": "OptionStatus",
    "documentation": null,
    "simpleType": "OptionStatus",
    "variableSetterType": "OptionStatus"
  },
  "simple": false,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "OptionStatus",
    "variableName": "status",
    "variableType": "OptionStatus",
    "documentation": "<p>Specifies the status of the node-to-node encryption options for the specified
Elasticsearch domain.</p>
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
  },
  "xmlNameSpaceUri": null}
}
"membersAsMap" : {
  "Options" : {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "NodeToNodeEncryptionOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via {@link NodeToNodeEncryptionOptions#builder()}. When the {@link Consumer} completes, {@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to {@link #options(NodeToNodeEncryptionOptions)}.
@param options a consumer that will call methods on {@link NodeToNodeEncryptionOptions.Builder} when it returns
@return Returns a reference to this object so that method calls can be chained together.<@see #options(NodeToNodeEncryptionOptions)}",
    "deprecated" : false,
    "documentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "options",
    "fluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.
@return Specifies the node-to-node encryption options for the specified Elasticsearch domain.
"param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.
"return Returns a reference to this object so that method calls can be chained together."",
    "fluentSetterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.
@return Specifies the node-to-node encryption options for the specified Elasticsearch domain.
    "getterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@return Specifies the node-to-node encryption options for the specified Elasticsearch domain.
    "gettersModel" : {
    "returnType" : "NodeToNodeEncryptionOptions",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "Options",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "Options",
    "uri" : false
  }
}
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "options",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "options",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri" : null
},
"Status" : {
  "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
  This is a convenience that creates an instance of the [ @link OptionStatus.Builder ] avoiding the need to create one manually via [ @link OptionStatus#builder() ].

  When the [ @link Consumer ] completes, [ @link OptionStatus.Builder#build() ] is called immediately and its result is passed to [ @link #status(OptionStatus) ].
  @param status a consumer that will call methods on [ @link OptionStatus.Builder ]
  @return Returns a reference to this object so that method calls can be chained together.
  @see #status(OptionStatus)",
  "deprecated" : false,
"documentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>";
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@return Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain."
"getterModel" : {
   "returnType" : "OptionStatus",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "Status",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "Status",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain."
"setterModel" : {
   "returnType" : null,
   "documentation" : null
},
"isList" : false,
"isMap" : false,
"isStruct" : false,
"isUnion" : false,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain."
"setterModel" : {
   "returnType" : null,
   "documentation" : null
}
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : '<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>',
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getOptions",
  "beanStyleSetterMethodName" : "setOptions",
  "c2jName" : "Options",
  "c2jShape" : "NodeToNodeEncryptionOptions",
  "defaultConsumerFluentSetterDocumentation" : '<p>Sets the node-to-node encryption options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link NodeToNodeEncryptionOptions.Builder} avoiding the need to create one manually via {@link NodeToNodeEncryptionOptions#builder()}. When the {@link Consumer} completes, {@link NodeToNodeEncryptionOptions.Builder#build()} is called immediately and its result is passed to {@link #options(NodeToNodeEncryptionOptions)}.<p>@param options a consumer that will call methods on {@link NodeToNodeEncryptionOptions.Builder}@return Returns a reference to this object so that method calls can be chained together.<p>@see #options(NodeToNodeEncryptionOptions)"',
  "deprecated" : false,
  "documentation" : '<p>Sets the node-to-node encryption options for the specified Elasticsearch domain.</p>',
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "options",
  "fluentSetterDocumentation" : '<p>Sets the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "options",
"getterDocumentation" : 
"<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@return Specifies the node-to-node encryption options for the specified Elasticsearch domain.",
"getterModel" : {
  "returnType" : "NodeToNodeEncryptionOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : 
"<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param options Specifies the node-to-node encryption options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "options",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "NodeToNodeEncryptionOptions",
  "variableName" : "options",
  "variableType" : "NodeToNodeEncryptionOptions",
  "documentation" : null,
  "simpleType" : "NodeToNodeEncryptionOptions",
  "variableSetterType" : "NodeToNodeEncryptionOptions"
}
"variableName" : "options",
"variableType" : "NodeToNodeEncryptionOptions",
"documentation" : "<p>Specifies the node-to-node encryption options for the specified Elasticsearch domain.</p>",
"simpleType" : "NodeToNodeEncryptionOptions",
"variableSetterType" : "NodeToNodeEncryptionOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the \{@link OptionStatus.Builder\} avoiding the need to create one manually via \{@link OptionStatus.Builder#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link OptionStatus.Builder#build()\} is called immediately and its result is passed to \{@link #status(OptionStatus)\}.\n\n@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : null,
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p>Specifies the status of the node-to-node encryption options for the specified Elasticsearch domain.</p>",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
}].
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "NodeToNodeEncryptionOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
    "flattened" : false,
    "resultWrapper" : null
},
"variable" : {
    "variableDeclarationType" : "NodeToNodeEncryptionOptionsStatus",
    "variableName" : "nodeToNodeEncryptionOptionsStatus",
    "variableType" : "NodeToNodeEncryptionOptionsStatus",
    "documentation" : null,
    "simpleType" : "NodeToNodeEncryptionOptionsStatus",
    "variableSetterType" : "NodeToNodeEncryptionOptionsStatus"
},
"wrapper" : false
},
"OptionState" : {
    "c2jName" : "OptionState",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "The state of a requested change. One of the following:
    <li>Processing: The request change is still in-process.</li>
    <li>Active: The request change is processed and deployed to the Elasticsearch domain.</li>
    \"enums\" : [
        { "name" : "REQUIRES_INDEX_DOCUMENTS",
          "value" : "RequiresIndexDocuments"
        },
        { "name" : "PROCESSING",
          "value" : "Processing"
        },
        { "name" : "ACTIVE",
          "value" : "Active"
        }
    ],
    "errorCode" : null,
    "event" : false,
    "eventStream" : false,
    "explicitEventPayloadMember" : null,
    "hasHeaderMember" : false,
    "hasPayloadMember" : false,
    "hasStatusCodeMember" : false,
    "hasStreamingMember" : false,
    "httpStatusCode" : null,
    "marshaller" : null,
    "marshaller" : null,
    "members" : []
}
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "OptionState",
"simpleMethod" : false,
"unmarshaller" : { 
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : { 
  "variableDeclarationType" : "OptionState",
  "variableName" : "optionState",
  "variableType" : "OptionState",
  "documentation" : null,
  "simpleType" : "OptionState",
  "variableSetterType" : "OptionState"
},
"wrapper" : false
},
"OptionStatus" : { 
  "c2jName" : "OptionStatus",
  "customization" : { 
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Provides the current status of the entity. </p>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "marshallable" : null,
  "members" : [ 
    "beanStyleGetterMethodName" : "getCreationDate",
    "beanStyleSetterMethodName" : "setCreationDate",
    "c2jName" : "CreationDate",
    "c2jShape" : "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
This is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via {@link Instant.Builder#builder()}.<br>
When the {@link Consumer} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to {@link #creationDate(Instant)}.<br>
@param creationDate a consumer that will call methods on {@link Instant.Builder}<br>
@return Returns a reference to this object so that method calls can be chained together.<br>
@see #creationDate(Instant)",
"deprecated" : false,
"documentation" : "<p>Timestamp which tells the creation date for the entity.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "creationDate",
"fluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
@param creationDate Timestamp which tells the creation date for the entity.<br>
@return Returns a reference to this object so that method calls can be chained together.<br>
"fluentSetterMethodName" : "creationDate",
"getterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p><br>
@return Timestamp which tells the creation date for the entity.
"getterModel" : {
    "returnType" : "java.time.Instant",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "CreationDate",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "CreationDate",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "CreationDate",
"setterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
@param creationDate Timestamp which tells the creation date for the entity.",
"setterMethodName" : "setCreationDate",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "creationDate",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "creationDate",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getUpdateDate",
"beanStyleSetterMethodName" : "setUpdateDate",
"c2jName" : "UpdateDate",
"c2jShape" : "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
This is a convenience that creates an instance of the { @link Instant.Builder} avoiding the need to
create one manually via { @link Instant#builder()}.\n\nWhen the { @link Consumer} completes, { @link Instant.Builder#build()} is called immediately and its result is passed to { @link #updateDate(Instant)}.\n@param updateDate a consumer that will call methods on { @link Instant.Builder}|\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #updateDate(Instant)",
"deprecated" : false,
"documentation" : "<p>Timestamp which tells the last updated time for the entity.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateDate",
"fluentSetterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "updateDate",
"getterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
@returns Returns a reference to this object so that method calls can be chained together.",
"name" : "UpdateDate",
"setterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
@returns Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setUpdateDate",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "updateDate",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "updateDate",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
}
"getterModel" : {
    "returnType" : "java.time.Instant",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "UpdateDate",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "UpdateDate",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "UpdateDate",
"setterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
@<p>@param updateDate Timestamp which tells the last updated time for the entity.</p>

setterMethodName" : "setUpdateDate",
"setterModel" : {
    "variableDeclarationType" : "java.time.Instant",
    "variableName" : "updateDate",
    "variableType" : "java.time.Instant",
    "documentation" : null,
    "simpleType" : "Instant",
    "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.time.Instant",
    "variableName" : "updateDate",
    "variableType" : "java.time.Instant",
    "documentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
    
    simpleType" : "Instant"
"variableSetterType" : "java.time.Instant",
},
"xmlNameSpaceUri" : null
],
{
"beanStyleGetterMethodName" : "getUpdateVersion",
"beanStyleSetterMethodName" : "setUpdateVersion",
"c2jName" : "UpdateVersion",
"c2jShape" : "UIntValue",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the latest version for the entity. This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer.Builder]. When the [@link Consumer] completes, [@link Integer.Builder#build() ] is called immediately and its result is passed to [@link #updateVersion(Integer)].\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #updateVersion(Integer)",
"deprecated" : false,
"documentation" : "<p>Specifies the latest version for the entity.\n</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateVersion",
"fluentSetterDocumentation" : "<p>Specifies the latest version for the entity.\n@returns Returns a reference to this object so that method calls can be chained together.\n</p>\n@returns Specifies the latest version for the entity.\n\@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName" : "updateVersion",
"getterDocumentation" : "<p>Specifies the latest version for the entity.\n@returns Specifies the latest version for the entity.\n\@return Specifies the latest version for the entity.\n",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateVersion",
"uri" : false
}
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "UpdateVersion",
"setterDocumentation": "<p>Specifies the latest version for the entity.</p>@param updateVersion Specifies the latest version for the entity.",
"setterMethodName": "setUpdateVersion",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "updateVersion",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "updateVersion",
  "variableType": "Integer",
  "documentation": "<p>Specifies the latest version for the entity.</p>",
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
],
[
  "beanStyleGetterMethodName": "getStateAsString",
  "beanStyleSetterMethodName": "setState",
  "c2jName": "State",
  "c2jShape": "OptionState",
  "defaultConsumerFluentSetterDocumentation": "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #stateAsString(String)}. @param state a consumer that will call methods on {@link String.Builder}|@return Returns a reference to this object so that method calls can be chained together.|@see #state(String)",
  "deprecated": false,
  "documentation": "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>",
  "enumType": "OptionState",
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": "state",
"fluentEnumSetterMethodName" : "state",
"fluentGetterMethodName" : "stateAsString",
"fluentSetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
@see OptionState
@return Returns a reference to this object so that method calls can be chained together.
@see OptionState",
"fluentSetterMethodName" : "state",
"getterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
<p>Throws an exception if the service returns an enum value that is not available in the current SDK version, [ @link #state ] will return [ @link OptionState#UNKNOWN_TO_SDK_VERSION ]. The raw value returned by the service is available from [ @link #stateAsString ].</p>
@return Provides the <code>OptionState</code> for the Elasticsearch domain.
@see OptionState",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "State",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "State",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "State",
"setterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
@see OptionState
@return Returns a reference to this object so that method calls can be chained together.
@see OptionState",
"setterMethodName" : "setState",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "state"}
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "state",
"variableType" : "String",
"documentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getPendingDeletion",
"beanStyleSetterMethodName" : "setPendingDeletion",
"c2jName" : "PendingDeletion",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
This is a convenience that creates an instance of the [link Boolean.Builder] avoiding the need to create one manually via [link Boolean#builder()].
When the [link Consumer] completes, [link Boolean.Builder#build()] is called immediately and its result is passed to [link #pendingDeletion(Boolean)].
@param pendingDeletion a consumer that will call methods on [link Boolean.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #pendingDeletion(Boolean)",
"deprecated" : false,
"documentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "pendingDeletion",
"fluentSetterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
@see #pendingDeletion(Boolean)",
"getterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
@see #pendingDeletion(Boolean)",
"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "PendingDeletion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "PendingDeletion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "PendingDeletion",
"setterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p><@param pendingDeletion Indicates whether the Elasticsearch domain is being deleted.">
"setterMethodName" : "setPendingDeletion",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
}
"membersAsMap" : {
  "CreationDate" : 
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "PendingDeletion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "PendingDeletion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "PendingDeletion",
"setterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p><@param pendingDeletion Indicates whether the Elasticsearch domain is being deleted.">
"setterMethodName" : "setPendingDeletion",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
} ] ],
"membersAsMap" : {
  "CreationDate" : 

"beanStyleGetterMethodName" : "getCreationDate",
"beanStyleSetterMethodName" : "setCreationDate",
"c2jName" : "CreationDate",
"c2jShape" : "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.\nThis is a convenience that creates an instance of the { @link Instant.Builder} avoiding the need to create one manually via { @link Instant#builder()}.
\nWhen the { @link Consumer} completes, { @link Instant.Builder#build()} is called immediately and its result is passed to { @link #creationDate(Instant)}.\n\n@see #creationDate(Instant)",
"deprecated" : false,
"documentation" : "<p>Timestamp which tells the creation date for the entity.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "creationDate",
"fluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.\n\n@see #creationDate(Instant)",
"fluentSetterMethodName" : "creationDate",
"getterDocumentation" : "<p>Timestamp which tells the creation date for the entity.\n\n@see #creationDate(Instant)",
"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "CreationDate",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "CreationDate",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INSTANT",
"name": "CreationDate",
"setterDocumentation": "<p>Timestamp which tells the creation date for the entity.</p>
@param creationDate Timestamp which tells the creation date for the entity.",
"setterMethodName": "setCreationDate",
"setterModel": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "creationDate",
  "variableType": "java.time.Instant",
  "documentation": null,
  "simpleType": "Instant",
  "variableSetterType": "java.time.Instant"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "creationDate",
  "variableType": "java.time.Instant",
  "documentation": "<p>Timestamp which tells the creation date for the entity.</p>",
  "simpleType": "Instant",
  "variableSetterType": "java.time.Instant"
},
"xmlNameSpaceUri": null
},
"PendingDeletion": {
  "beanStyleGetterMethodName": "getPendingDeletion",
  "beanStyleSetterMethodName": "setPendingDeletion",
  "c2jName": "PendingDeletion",
  "c2jShape": "Boolean",
  "defaultConsumerFluentSetterDocumentation": "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via {@link Boolean#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #pendingDeletion(Boolean)}. @param pendingDeletion a consumer that will call methods on {@link Boolean.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #pendingDeletion(Boolean)",
  "deprecated": false,
  "documentation": "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "pendingDeletion","
"fluentSetterDocumentation": "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
@param pendingDeletion Indicates whether the Elasticsearch domain is being deleted.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "pendingDeletion",
"getterDocumentation": "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
@return Indicates whether the Elasticsearch domain is being deleted.",
"getterModel": {
  "returnType": "Boolean",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "PendingDeletion",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "PendingDeletion",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "PendingDeletion",
"setterDocumentation": "<p>Indicates whether the Elasticsearch domain is being deleted.</p>
@param pendingDeletion Indicates whether the Elasticsearch domain is being deleted.
@return Indicates whether the Elasticsearch domain is being deleted.",
"setterMethodName": "setPendingDeletion",
"setterModel": {
  "variableDeclarationType": "Boolean",
  "variableName": "pendingDeletion",
  "variableType": "Boolean",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "documentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlnsNameSpaceUri" : null
},
"State" : {
  "beanStyleGetterMethodName" : "getStateAsString",
  "beanStyleSetterMethodName" : "setState",
  "c2jName" : "State",
  "c2jShape" : "OptionState",
  "defaultConsumerFluentSetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #stateAsString(String)}. Returns a reference to this object so that method calls can be chained together.\n\n@see #state(String)",
  "deprecated" : false,
  "documentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>",
  "enumType" : "OptionState",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "state",
  "fluentEnumSetterMethodName" : "state",
  "fluentGetterMethodName" : "stateAsString",
  "fluentSetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
\nIf the service returns an enum value that is not available in the current SDK version, {@link #state} will return {@link OptionState#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #stateAsString(String)}. Provides the <code>OptionState</code> for the Elasticsearch domain.\n\n@see OptionState",
  "fluentSetterMethodName" : "state",
  "getterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
\nIf the service returns an enum value that is not available in the current SDK version, {@link #state} will return {@link OptionState#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #stateAsString(String)}. Provides the <code>OptionState</code> for the Elasticsearch domain.\n\n@see OptionState",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
"SetterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
@param state Provides the <code>OptionState</code> for the Elasticsearch domain.
@see OptionState",

"setterMethodName" : "setState",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,
"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"xmlNameSpaceUri" : null
},

"updateDate" : {
  "beanStyleGetterMethodName" : "getUpdateDate",
  "beanStyleSetterMethodName" : "setUpdateDate",
  "c2jName" : "UpdateDate",
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"xmlNameSpaceUri" : null
}
"c2jShape" : "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
This is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via {@link Instant#builder()}.
When the {@link Consumer} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to {@link #updateDate(Instant)}.

When the {@link #updateDate(Instant)} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to {@link #updateDate(Instant)}.

@see #updateDate(Instant)"

"deprecated" : false,
"documentation" : "<p>Timestamp which tells the last updated time for the entity.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateDate",
"fluentSetterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
@param updateDate Timestamp which tells the last updated time for the entity.
@return Returns a reference to this object so that method calls can be chained together.
@see #updateDate(Instant)"

"getterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>
@return Timestamp which tells the last updated time for the entity.",
"getterModel" : {
"returnType" : "java.time.Instant",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateDate",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateDate",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType": "INSTANT",
"name": "UpdateDate",
"setterDocumentation": "<p>Timestamp which tells the last updated time for the entity.</p>
@param updateDate Timestamp which tells the last updated time for the entity.",
"setterMethodName": "setUpdateDate",
"setterModel": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "updateDate",
  "variableType": "java.time.Instant",
  "documentation": null,
  "simpleType": "Instant",
  "variablesSetterType": "java.time.Instant"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "updateDate",
  "variableType": "java.time.Instant",
  "documentation": "<p>Timestamp which tells the last updated time for the entity.</p>
  "simpleType": "Instant",
  "variableSetterType": "java.time.Instant"
},
"xmlNameSpaceUri": null
},
"UpdateVersion": {
  "beanStyleGetterMethodName": "getUpdateVersion",
  "beanStyleSetterMethodName": "setUpdateVersion",
  "c2jName": "UpdateVersion",
  "c2jShape": "UIntValue",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the latest version for the entity.</p>
  This is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via
  {@link Integer#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called
  immediately and its result is passed to {@link #updateVersion(Integer)}. Returns a reference to this object so that method calls can be
  chained together.\n  @see #updateVersion(Integer)"
  "deprecated": false,
  "documentation": "<p>Specifies the latest version for the entity.</p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "updateVersion",
  "fluentSetterDocumentation": "<p>Specifies the latest version for the entity.</p>\n  Returns a reference to this object so that method calls can be
  chained together.",
  "fluentSetterMethodName": "updateVersion",
  "fluentSetterMethodName": "updateVersion"
"getterDocumentation" : "<p>Specifies the latest version for the entity.</p>
@return Specifies the latest version for the entity.",
"getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
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    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "UpdateVersion",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "UpdateVersion",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "UpdateVersion",
"setterDocumentation" : "<p>Specifies the latest version for the entity.</p>
@param updateVersion Specifies the latest version for the entity.",
"setterMethodName" : "setUpdateVersion",
"setterModel" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "updateVersion",
    "variableType" : "Integer",
    "documentation" : null,
    "simpleType" : "Integer",
    "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Integer",
    "variableName" : "updateVersion",
    "variableType" : "Integer"}
"documentation" : "<p>Specifies the latest version for the entity.</p>",
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [
{
"beanStyleGetterMethodName" : "getCreationDate",
"beanStyleSetterMethodName" : "setCreationDate",
"c2jName" : "CreationDate",
"c2jShape" : "UpdateTimestamp",
"defaultValueFluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
This is a convenience that creates an instance of the { @link Instant.Builder } avoiding the need to create one manually via { @link Instant.Builder#builder() }.
When the { @link Instant.Consumer } completes, { @link Instant.Builder#build() } is called immediately and its result is passed to { @link Instant#creationDate(Instant) }.
@param creationDate a consumer that will call methods on { @link Instant.Builder }
@return Returns a reference to this object so that method calls can be chained together.
@see #creationDate(Instant)",
"deprecated" : false,
"documentation" : "<p>Timestamp which tells the creation date for the entity.</p>",
"enumType" : null,
"eventoHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "creationDate",
"fluentSetterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
@param creationDate Timestamp which tells the creation date for the entity.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "creationDate",
"getterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>
",
"getterModel" : {
"returnType" : "java.time.Instant",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CreationDate",
"queryString" : false,
"returnType" : "java.time.Instant",
"documentation" : null
}
"statusCode" : false,
"unmarshallLocationName" : "CreationDate",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "CreationDate",
"setterDocumentation" : "<p>Timestamp which tells the creation date for the entity.</p>@param creationDate Timestamp which tells the creation date for the entity.",
"setterMethodName" : "setCreationDate",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "creationDate",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "creationDate",
  "variableType" : "java.time.Instant",
  "documentation" : "<p>Timestamp which tells the creation date for the entity.</p>",
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpdateDate",
"beanStyleSetterMethodName" : "setUpdateDate",
"c2jName" : "UpdateDate",
"c2jShape" : "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>Timestamp which tells the last updated time for the entity.</p>@This is a convenience that creates an instance of the { @link Instant.Builder} avoiding the need to create one manually via { @link Instant#builder()}.\n\nWhen the { @link Consumer} completes, (@link Instant.Builder#build()) is called immediately and its result is passed to { @link #updateDate(Instant)}.\n@deprecated\n@see #updateDate(Instant)"
, "deprecated" : false,
"documentation" : "<p>Timestamp which tells the last updated time for the entity.</p>"
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"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "updateDate",
"fluentSetterDocumentation": 
"<p>Timestamp which tells the last updated time for the entity.</p>
@param
updateDate Timestamp which tells the last updated time for the entity.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName": "updateDate",
"getterDocumentation": 
"<p>Timestamp which tells the last updated time for the entity.</p>
@return
Timestamp which tells the last updated time for the entity.
",
"getterModel": {
"returnType": "java.time.Instant",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
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"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "UpdateDate",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "UpdateDate",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"JsonValue": false,
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"map": false,
"mapModel": null,
"marshallingType": "INSTANT",
"name": "UpdateDate",
"setterDocumentation": 
"<p>Timestamp which tells the last updated time for the entity.</p>
@param
updateDate Timestamp which tells the last updated time for the entity.
",
"setterMethodName": "setUpdateDate",
"setterModel": {
"variableDeclarationType": "java.time.Instant",
"variableName": "updateDate",
"variableType": "java.time.Instant"
"documentation": null,
"simpleType": "Instant",
"variableSetterType": "java.time.Instant"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "java.time.Instant",
"variableName": "updateDate",
"variableType": "java.time.Instant",
"documentation": "<p>Timestamp which tells the last updated time for the entity. </p>",
"simpleType": "Instant",
"variableSetterType": "java.time.Instant"
},
"xmlNameSpaceUri": null
}
},
"beanStyleGetterMethodName": "getUpdateVersion",
"beanStyleSetterMethodName": "setUpdateVersion",
"c2jName": "UpdateVersion",
"c2jShape": "UIntValue",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the latest version for the entity. </p>\nThis is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer.Builder\}.\n\nWhen the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #updateVersion(Integer)} .\n\n@param updateVersion a consumer that will call methods on { @link Integer.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #updateVersion(Integer)",
"deprecated": false,
"documentation": "<p>Specifies the latest version for the entity. </p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "updateVersion",
"fluentSetterDocumentation": "<p>Specifies the latest version for the entity. </p>\n\n@param updateVersion Specifies the latest version for the entity.\n@return Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName": "updateVersion",
"getterDocumentation": "<p>Specifies the latest version for the entity. </p>\n\n@return Specifies the latest version for the entity.\n",
"getterModel": {
"returnType": "Integer",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "UpdateVersion",
"setterDocumentation" : "<p>Specifies the latest version for the entity.</p>
@param updateVersion Specifies the latest version for the entity."
"setterMethodName" : "setUpdateVersion",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "updateVersion",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "updateVersion",
  "variableType" : "Integer",
  "documentation" : "<p>Specifies the latest version for the entity.</p>"
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getStateAsString",
"beanStyleSetterMethodName" : "setState",
"c2jName" : "State",
"c2jShape" : "OptionState"
“defaultConsumerFluentSetterDocumentation” : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.<p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.
When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #stateAsString(String)}. When the method completes, {@link StringBuilder} is called immediately and its result is passed to {@link #stateAsString(String)}. When the method completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #stateAsString(String)}.

@see #state(String)\n
@see #state(String)

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"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "State",
"setterDocumentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.

@param state Provides the <code>OptionState</code> for the Elasticsearch domain. @see OptionState",
"setterMethodName" : "setState",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : "<p>Provides the <code>OptionState</code> for the Elasticsearch domain.</p>
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getPendingDeletion",
  "beanStyleSetterMethodName" : "setPendingDeletion",
  "c2jName" : "PendingDeletion",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "<p>Indicates whether the Elasticsearch domain is being deleted. This is a convenience that creates an instance of the [Boolean.Builder] avoiding the need to create one manually via [Boolean#builder()]. When the [Consumer] completes, [Boolean.Builder#build()] is called immediately and its result is passed to [pendingDeletion(Boolean)].

@return Returns a reference to this object so that method calls can be chained together. @see pendingDeletion(Boolean)",
  "deprecated" : false,
  "documentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "pendingDeletion",
  "fluentSetterMethodName" : null,
  "fluentType" : null,
  "variableDeclarationType" : "Boolean",
  "variableName" : "pendingDeletion",
  "variableType" : "Boolean",
  "variableSetterType" : "Boolean"
}
"fluentSetterDocumentation": "<p> Indicates whether the Elasticsearch domain is being deleted. </p>
@param pendingDeletion Indicates whether the Elasticsearch domain is being deleted.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "pendingDeletion",
"getterDocumentation": "<p> Indicates whether the Elasticsearch domain is being deleted. </p>
@return Indicates whether the Elasticsearch domain is being deleted.",
"getterModel": {
"returnType": "Boolean",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "PendingDeletion",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "PendingDeletion",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "PendingDeletion",
"setterDocumentation": "<p> Indicates whether the Elasticsearch domain is being deleted. </p>
@param pendingDeletion Indicates whether the Elasticsearch domain is being deleted.
@return Indicates whether the Elasticsearch domain is being deleted.",
"setterMethodName": "setPendingDeletion",
"setterModel": {
"variableDeclarationType": "Boolean",
"variableName": "pendingDeletion",
"variableType": "Boolean",
"documentation": null,
"simpleType": "Boolean",
"variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable" : {
   "variableDeclarationType" : "Boolean",
   "variableName" : "pendingDeletion",
   "variableType" : "Boolean",
   "documentation" : "<p>Indicates whether the Elasticsearch domain is being deleted.</p>",
   "simpleType" : "Boolean",
   "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
}
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "CreationDate", "UpdateDate", "State" ],
"shapeName" : "OptionStatus",
"simpleMethod" : false,
"unmarshaller" : {
   "flattened" : false,
   "resultWrapper" : null
},
"variable" : {
   "variableDeclarationType" : "OptionStatus",
   "variableName" : "optionStatus",
   "variableType" : "OptionStatus",
   "documentation" : null,
   "simpleType" : "OptionStatus",
   "variableSetterType" : "OptionStatus"
},
"wrapper" : false
},
"PurchaseReservedElasticsearchInstanceOfferingRequest" : {
   "c2jName" : "PurchaseReservedElasticsearchInstanceOfferingRequest",
   "customization" : {
      "artificialResultWrapper" : null,
      "skipGeneratingMarshaller" : false,
      "skipGeneratingModelClass" : false,
      "skipGeneratingUnmarshaller" : false,
      "staxTargetDepthOffset" : 0
   },
   "deprecated" : false,
   "documentation" : "<p>Container for parameters to
<code>PurchaseReservedElasticsearchInstanceOffering</code> </p>",
   "enums" : null,
   "errorCode" : null,
   "event" : false,
   "eventStream" : false,
   "explicitEventPayloadMember" : null,
   "hasHeaderMember" : false,
   "hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
  "action" : "PurchaseReservedElasticsearchInstanceOffering",
  "locationName" : null,
  "requestUri" : "/2015-01-01/es/purchaseReservedInstanceOffering",
  "target" : null,
  "verb" : "POST",
  "xmlNameSpaceUri" : null
},
"members" : [
  {
    "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
    "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
    "c2jName" : "ReservedElasticsearchInstanceOfferingId",
    "c2jShape" : "GUID",
    "defaultConsumerFluentSetterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>
This is a convenience that creates an instance of the @link String.Builder avoiding the need to create one manually via @link String.Builder().
When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #reservedElasticsearchInstanceOfferingId(String)

@see #reservedElasticsearchInstanceOfferingId(String)",
  "deprecated" : false,
  "documentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
  "fluentSetterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>
@param reservedElasticsearchInstanceOfferingId The ID of the reserved Elasticsearch instance offering to purchase.
@return Returns a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceOfferingId(String)",
  "getterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>
@return The ID of the reserved Elasticsearch instance offering to purchase.
@see #reservedElasticsearchInstanceOfferingId(String)",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceOfferingId",
"setterDocumentation" : "&lt;p&gt;The ID of the reserved Elasticsearch instance offering to purchase.&lt;/p&gt;
@param reservedElasticsearchInstanceOfferingId The ID of the reserved Elasticsearch instance offering to purchase.",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : "&lt;p&gt;The ID of the reserved Elasticsearch instance offering to purchase.&lt;/p&gt;",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getReservationName",
  "beanStyleSetterMethodName" : "setReservationName",
  "c2jName" : "ReservationName",
  "c2jShape" : "ReservationToken",
  "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;A customer-specified identifier to track this reservation.&lt;/p&gt;
This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link
String.Builder#build() is called immediately and its result is passed to \{@link
#reservationName(String)}

@n@return Returns a reference to this object so that method calls can be chained together.
\n@see
#reservationName(String)

"deprecated" : false,
"documentation" : "\n\nA customer-specified identifier to track this reservation.\n\n\n",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterDocumentation" : "A customer-specified identifier to track this reservation.\n\n\n",
"fluentSetterMethodName" : "reservationName",
"getterDocumentation" : "A customer-specified identifier to track this reservation.

@param reservationName A customer-specified identifier to track this reservation.

@return Returns a reference to this object so that method calls can be chained together.
",

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"setterDocumentation" : "A customer-specified identifier to track this reservation.

@param reservationName A customer-specified identifier to track this reservation.

@return Returns a reference to this object so that method calls can be chained together.

@see
#reservationName(String)"
reservationName A customer-specified identifier to track this reservation.

setterMethodName : "setReservationName",
setterModel : {
  variableDeclarationType : "String",
  variableName : "reservationName",
  variableType : "String",
  documentation : null,
  simpleType : "String",
  variableSetterType : "String"
},
simple : true,
timestampFormat : null,
variable : {
  variableDeclarationType : "String",
  variableName : "reservationName",
  variableType : "String",
  documentation : "<p>A customer-specified identifier to track this reservation.</p>
  simpleType : "String",
  variableSetterType : "String"
},
xmlNameSpaceUri : null,

beanStyleGetterMethodName : "getInstanceCount",
beanStyleSetterMethodName : "setInstanceCount",
c2jName : "InstanceCount",
c2jShape : "InstanceCount",
defaultConsumerFluentSetterDocumentation : "<p>The number of Elasticsearch instances to reserve.</p>

In this is a convenience that creates an instance of the {@link Integer.Builder} avoiding the need to create one manually via {@link Integer#builder()}. When the {@link Consumer} completes, {@link Integer.Builder#build()} is called immediately and its result is passed to {@link #instanceCount(Integer)}. Let's call methods on {@link Integer.Builder} and return a reference to this object so that method calls can be chained together. @see #instanceCount(Integer)

deprecated : false,
documentation : "<p>The number of Elasticsearch instances to reserve.</p>

datatype : null,
enumType : null,
eventType : false,

fluentEnumGetterMethodName : null,
fluentEnumSetterMethodName : null,
fluentGetterMethodName : "instanceCount",
fluentSetterDocumentation : "<p>The number of Elasticsearch instances to reserve.</p>

in @param instanceCount The number of Elasticsearch instances to reserve. Let's return a reference to this object so that method calls can be chained together."

fluentSetterMethodName : "instanceCount",
getterDocumentation : "<p>The number of Elasticsearch instances to reserve.</p>

getterModel : {

The number of Elasticsearch instances to reserve.

The number of Elasticsearch instances to reserve.
"defaultConsumerFluentSetterDocumentation": "<p>The number of Elasticsearch instances to reserve.</p>This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer.Builder#builder()]. When the [@link Integer.Builder#build()] is called immediately and its result is passed to [@link #instanceCount(Integer)].

@return Returns a reference to this object so that method calls can be chained together.
@see #instanceCount(Integer)",
"deprecated": false,
"documentation": "<p>The number of Elasticsearch instances to reserve.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "instanceCount",
"fluentSetterDocumentation": "<p>The number of Elasticsearch instances to reserve.</p>"
@param instanceCount The number of Elasticsearch instances to reserve.
@return The number of Elasticsearch instances to reserve.
@see #instanceCount(Integer)",
"getterDocumentation": "<p>The number of Elasticsearch instances to reserve.</p>
@param instanceCount The number of Elasticsearch instances to reserve.
@return Returns a reference to this object so that method calls can be chained together.
@see #instanceCount=Integer"
"getterModel": {
"returnType": "Integer",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "InstanceCount",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "InstanceCount"
The number of Elasticsearch instances to reserve.

```java
@Param(instanceCount
  @param instanceCount

The number of Elasticsearch instances to reserve.

setterMethodName" : "setInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "instanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"simple" : "true",
"simple" : "true",
"setterMethodName" : "getReservationName",
"setterMethodName" : "setReservationName",
"c2jName" : "ReservationName",
"c2jShape" : "ReservationToken",
daughterConsumerFluentSetterDocumentation" : "A customer-specified identifier to track this reservation."}

This is a convenience that creates an instance of the \{String.Builder\} avoiding the need to create one manually via \{String.Builder\}. When the \{Consumer\} completes, \{String.Builder\} is called immediately and its result is passed to \{reservationName \(\text{String}\)\}.

@returns Returns a reference to this object so that method calls can be chained together.

@see \#reservationName(String)"
```
"deprecated" : false,
"documentation" : "A customer-specified identifier to track this reservation."}.
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterMethodName" : "reservationName",
"getterDocumentation" : "<p>A customer-specified identifier to track this reservation.\n@return A customer-specified identifier to track this reservation.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"setterDocumentation" : "<p>A customer-specified identifier to track this reservation.\n@param reservationName A customer-specified identifier to track this reservation.\n@return Returns a reference to this object so that method calls can be chained together."
"setterMethodName" : "reservationName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservationName",
"variableType" : "String"}
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
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  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : "<p>A customer-specified identifier to track this reservation.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ReservedElasticsearchInstanceOfferingId" : {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
  "c2jName" : "ReservedElasticsearchInstanceOfferingId",
  "c2jShape" : "GUID",
  "defaultValueConsumerFluentSetterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>This is a convenience that creates an instance of the @{link String.Builder} avoiding the need to create one manually via @{link String#builder()}. When the @{link Consumer} completes, @{link String.Builder#build()} is called immediately and its result is passed to @{link #reservedElasticsearchInstanceOfferingId(String)}. A consumer that will call methods on @{link String.Builder} returns a reference to this object so that method calls can be chained together.@see #reservedElasticsearchInstanceOfferingId(String)",
  "deprecated" : false,
  "documentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
  "fluentSetterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>@param reservedElasticsearchInstanceOfferingId The ID of the reserved Elasticsearch instance offering to purchase. Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
  "getterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>@return The ID of the reserved Elasticsearch instance offering to purchase."
},
"http" : {
  "additionalMarshallingPath" : null,
}
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
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"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservedElasticsearchInstanceOfferingId",
"setterDocumentation": "<p>The ID of the reserved Elasticsearch instance offering to purchase.</p>
@param reservedElasticsearchInstanceOfferingId The ID of the reserved Elasticsearch instance offering to purchase.",
"setterMethodName": "setReservedElasticsearchInstanceOfferingId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": "The ID of the reserved Elasticsearch instance offering to purchase.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null}
"nonStreamingMembers" : [ 
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
  "c2jName" : "ReservedElasticsearchInstanceOfferingId",
  "c2jShape" : "GUID",
  "defaultConsumerFluentSetterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.<br/>\nThis is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create one manually via \{ @link String.Builder(\})\nWhen the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #reservedElasticsearchInstanceOfferingId(String) \}.\n@param reservedElasticsearchInstanceOfferingId a consumer that will call methods on \{ @link String.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #reservedElasticsearchInstanceOfferingId(String)",
  "deprecated" : false,
  "documentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.<p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
  "fluentSetterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.<p>\n@return Returns a reference to this object so that method calls can be chained together.\n@see #reservedElasticsearchInstanceOfferingId(String)",
  "fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
  "getterDocumentation" : "<p>The ID of the reserved Elasticsearch instance offering to purchase.<p>\n@return Returns a reference to this object so that method calls can be chained together.\n@see #reservedElasticsearchInstanceOfferingId(String)",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
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    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
}
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservedElasticsearchInstanceOfferingId",
"setterDocumentation": "The ID of the reserved Elasticsearch instance offering to purchase.

@param
reservedElasticsearchInstanceOfferingId The ID of the reserved Elasticsearch instance offering to purchase."
"setterMethodName": "setReservedElasticsearchInstanceOfferingId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
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  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": "The ID of the reserved Elasticsearch instance offering to purchase.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getReservationName",
"beanStyleSetterMethodName": "setReservationName",
"c2jName": "ReservationName",
"c2jShape": "ReservationToken",
"defaultConsumerFluentSetterDocumentation": "A customer-specified identifier to track this reservation.

This is a convenience that creates an instance of the \{\link String.Builder\} avoiding the need to create one manually via \{\link String.Builder\}.\n\nWhen the \{\link Consumer\} completes, \{\link String.Builder#build\} is called immediately and its result is passed to \{\link \param reservationName a consumer that will call methods on \{\link String.Builder\}\n\n\n@see \#reservationName(String)\",
"deprecated": false,
"documentation": "A customer-specified identifier to track this reservation."
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterDocumentation" : "<p>A customer-specified identifier to track this reservation.</p>
@param reservationName A customer-specified identifier to track this reservation.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservationName",
"getterDocumentation" : "<p>A customer-specified identifier to track this reservation.</p>
@return A customer-specified identifier to track this reservation.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservationName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservationName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"setterDocumentation" : "<p>A customer-specified identifier to track this reservation.</p>
@param reservationName A customer-specified identifier to track this reservation.
@return A customer-specified identifier to track this reservation.",
"setterMethodName" : "setReservationName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservationName",
  "variableType": "String",
  "documentation": "<p>A customer-specified identifier to track this reservation.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null},
{
  "beanStyleGetterMethodName": "getInstanceCount",
  "beanStyleSetterMethodName": "setInstanceCount",
  "c2jName": "InstanceCount",
  "c2jShape": "InstanceCount",
  "defaultConsumerFluentSetterDocumentation": "<p>The number of Elasticsearch instances to reserve.</p>
This is a convenience that creates an instance of the @link Integer.Builder avoiding the need to create one manually via { @link Integer.Builder#builder() }. When the { @link Integer.Builder#build() } is called immediately and its result is passed to { @link #instanceCount(Integer) }. When the @link Consumer completes, { @link Integer.Builder#build() } is called immediately and its result is passed to { @link #instanceCount(Integer) }.
@param instanceCount a consumer that will call methods on { @link Integer.Builder#build() }.
@return Returns a reference to this object so that method calls can be chained together.
@see #instanceCount(Integer)",
  "deprecated": false,
  "documentation": "<p>The number of Elasticsearch instances to reserve.</p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "instanceCount",
  "fluentSetterDocumentation": "<p>The number of Elasticsearch instances to reserve.</p>
When the { @link Integer.Builder#build() } is called immediately and its result is passed to { @link #instanceCount(Integer) }.
@param instanceCount The number of Elasticsearch instances to reserve.
@return Returns a reference to this object so that method calls can be chained together.
@see #instanceCount(Integer)",
  "getterDocumentation": "<p>The number of Elasticsearch instances to reserve.</p>
@returns The number of Elasticsearch instances to reserve.
@see #instanceCount(Integer)",
  "getterModel": {
    "returnType": "Integer",
    "documentation": null
  },
  "http": {
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    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
The number of Elasticsearch instances to reserve.

```
@param instanceCount

The number of Elasticsearch instances to reserve.
```

```java
.valueOf(1)
```
"variableName" : "purchaseReservedElasticsearchInstanceOfferingRequest",
"variableType" : "PurchaseReservedElasticsearchInstanceOfferingRequest",
"documentation" : null,
"simpleType" : "PurchaseReservedElasticsearchInstanceOfferingRequest",
"variableSetterType" : "PurchaseReservedElasticsearchInstanceOfferingRequest"
},
"wrapper" : false
},
"PurchaseReservedElasticsearchInstanceOfferingResponse" : {
"c2jName" : "PurchaseReservedElasticsearchInstanceOfferingResponse",
"customization" : {
  "artificialResultWrapper" : null,
  "skipGeneratingMarshaller" : false,
  "skipGeneratingModelClass" : false,
  "skipGeneratingUnmarshaller" : false,
  "staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "Represents the output of a <code> PurchaseReservedElasticsearchInstanceOffering </code> operation."",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
  "c2jName" : "ReservedElasticsearchInstanceId",
  "c2jShape" : "GUID",
  "defaultConsumerFluentSetterDocumentation" : "Details of the reserved Elasticsearch instance which was purchased. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #reservedElasticsearchInstanceId(String)}.
  @param reservedElasticsearchInstanceId a consumer that will call methods on { @link String.Builder} @return Returns a reference to this object so that method calls can be chained together.
  @see #reservedElasticsearchInstanceId(String)",
  "deprecated" : false,
  "documentation" : "Details of the reserved Elasticsearch instance which was purchased."
},
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
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"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.<br/>
@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.<br/>
@return Returns a reference to this object so that method calls can be chained together.
</p>
"fluentSetterMethodName" : "reservedElasticsearchInstanceId",
"getterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.<br/>
@return Details of the reserved Elasticsearch instance which was purchased.
</p>

"getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceId",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"setterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.<br/>
@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.
</p>
"setterMethodName" : "setReservedElasticsearchInstanceId",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservedElasticsearchInstanceId",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",}
"variableSetterType" : "String",
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{"beanStyleGetterMethodName" : "getReservationName",
"beanStyleSetterMethodName" : "setReservationName",
"c2jName" : "ReservationName",
"c2jShape" : "ReservationToken",
"defaultConsumerFluentSetterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to String.Builder#build().

@param reservationName a consumer that will call methods on String.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #reservationName(String)",
"deprecated" : false,
"documentation" : "<p>The customer-specified identifier used to track this reservation.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
@param reservationName The customer-specified identifier used to track this reservation.
@return Returns a reference to this object so that method calls can be chained together.
@see #reservationName(String)",
"getterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
@getterModel : {
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  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"setterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
@param reservationName The customer-specified identifier used to track this reservation.",
"setterMethodName" : "setReservationName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservationName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "reservationName",
"variableType" : "String",
"documentation" : "<p>The customer-specified identifier used to track this reservation.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsSpaceUri" : null
}

"membersAsMap" : {
"ReservationName" : {
"beanStyleGetterMethodName" : "getReservationName",
"beanStyleSetterMethodName" : "setReservationName",
"c2jName" : "ReservationName",
}
"c2jShape" : "ReservationToken",
"defaultConsumerFluentSetterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #reservationName(String)}.  
@param reservationName a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #reservationName(String)",
"deprecated" : false,
"documentation" : "The customer-specified identifier used to track this reservation.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetMethodMethodName" : "reservationName",
"fluentSetterDocumentation" : "The customer-specified identifier used to track this reservation.
@<p>The customer-specified identifier used to track this reservation.
@return Returns a reference to this object so that method calls can be chained together.
@see #reservationName(String)",
"getterDocumentation" : "The customer-specified identifier used to track this reservation.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservationName",
"setterDocumentation": "The customer-specified identifier used to track this reservation.
@param reservationName The customer-specified identifier used to track this reservation.",
"setterMethodName": "setReservationName",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "reservationName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservationName",
  "variableType": "String",
  "documentation": "The customer-specified identifier used to track this reservation.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"ReservedElasticsearchInstanceId": {
  "beanStyleGetterMethodName": "getReservedElasticsearchInstanceId",
  "beanStyleSetterMethodName": "setReservedElasticsearchInstanceId",
  "c2jName": "ReservedElasticsearchInstanceId",
  "c2jShape": "GUID",
  "defaultConsumerFluentSetterDocumentation": "Details of the reserved Elasticsearch instance which was purchased. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to #reservedElasticsearchInstanceId(String) a consumer that will call methods on String.Builder\n@see #reservedElasticsearchInstanceId(String)",
  "deprecated": false,
  "documentation": "Details of the reserved Elasticsearch instance which was purchased.",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "reservedElasticsearchInstanceId",
  "fluentSetterDocumentation": "Details of the reserved Elasticsearch instance which was purchased.",
  "simple": true,
  "timestampFormat": null,
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    "variableType": "String",
    "documentation": "Details of the reserved Elasticsearch instance which was purchased.",
    "simpleType": "String",
    "variableSetterType": "String"
  },
  "xmlNameSpaceUri": null,
  "ReservedElasticsearchInstanceId": {
    "beanStyleGetterMethodName": "getReservedElasticsearchInstanceId",
    "beanStyleSetterMethodName": "setReservedElasticsearchInstanceId",
    "c2jName": "ReservedElasticsearchInstanceId",
    "c2jShape": "GUID",
    "defaultConsumerFluentSetterDocumentation": "Details of the reserved Elasticsearch instance which was purchased. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to #reservedElasticsearchInstanceId(String) a consumer that will call methods on String.Builder\n@see #reservedElasticsearchInstanceId(String)",
    "deprecated": false,
    "documentation": "Details of the reserved Elasticsearch instance which was purchased.",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "reservedElasticsearchInstanceId",
    "fluentSetterDocumentation": "Details of the reserved Elasticsearch instance which was purchased.",
    "simple": true,
    "timestampFormat": null,
    "variable": {
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      "variableName": "reservedElasticsearchInstanceId",
      "variableType": "String",
      "documentation": "Details of the reserved Elasticsearch instance which was purchased.",
      "simpleType": "String",
      "variableSetterType": "String"
    },
    "xmlNameSpaceUri": null,
  }
}
"ReservedElasticsearchInstanceId": {
  "beanStyleGetterMethodName": "getReservedElasticsearchInstanceId",
  "beanStyleSetterMethodName": "setReservedElasticsearchInstanceId",
  "c2jName": "ReservedElasticsearchInstanceId",
  "c2jShape": "GUID",
  "defaultConsumerFluentSetterDocumentation": "Details of the reserved Elasticsearch instance which was purchased. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to #reservedElasticsearchInstanceId(String) a consumer that will call methods on String.Builder\n@see #reservedElasticsearchInstanceId(String)",
  "deprecated": false,
  "documentation": "Details of the reserved Elasticsearch instance which was purchased.",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "reservedElasticsearchInstanceId",
  "fluentSetterDocumentation": "Details of the reserved Elasticsearch instance which was purchased.",
  "simple": true,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "String",
    "variableName": "reservedElasticsearchInstanceId",
    "variableType": "String",
    "documentation": "Details of the reserved Elasticsearch instance which was purchased.",
    "simpleType": "String",
    "variableSetterType": "String"
  },
  "xmlNameSpaceUri": null,
  "ReservedElasticsearchInstanceId": {
    "beanStyleGetterMethodName": "getReservedElasticsearchInstanceId",
    "beanStyleSetterMethodName": "setReservedElasticsearchInstanceId",
    "c2jName": "ReservedElasticsearchInstanceId",
    "c2jShape": "GUID",
    "defaultConsumerFluentSetterDocumentation": "Details of the reserved Elasticsearch instance which was purchased. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to #reservedElasticsearchInstanceId(String) a consumer that will call methods on String.Builder\n@see #reservedElasticsearchInstanceId(String)",
    "deprecated": false,
    "documentation": "Details of the reserved Elasticsearch instance which was purchased.",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "reservedElasticsearchInstanceId",
    "fluentSetterDocumentation": "Details of the reserved Elasticsearch instance which was purchased.",
    "simple": true,
    "timestampFormat": null,
    "variable": {
      "variableDeclarationType": "String",
      "variableName": "reservedElasticsearchInstanceId",
      "variableType": "String",
      "documentation": "Details of the reserved Elasticsearch instance which was purchased.",
      "simpleType": "String",
      "variableSetterType": "String"
    },
    "xmlNameSpaceUri": null,
  }
}
purchased.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "reservedElasticsearchInstanceId",
"getterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>

@return Details of the reserved Elasticsearch instance which was purchased.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstanceId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstanceId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"setterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>

@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.

"setterMethodName" : "setReservedElasticsearchInstanceId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {

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"variableDeclarationType" : "String",
"variableName" : "reservedElasticsearchInstanceId",
"variableType" : "String",
"documentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
    "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
    "c2jName" : "ReservedElasticsearchInstanceId",
    "c2jShape" : "GUID",
    "defaultConsumerFluentSetterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>
This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #reservedElasticsearchInstanceId(String) } a consumer that will call methods on { @link String.Builder } a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceId(String)",
    "deprecated" : false,
    "documentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "reservedElasticsearchInstanceId",
    "fluentSetterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>
@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.
@return Returns a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceId(String)",
    "fluentSetterMethodName" : "reservedElasticsearchInstanceId",
    "getterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>
@return Details of the reserved Elasticsearch instance which was purchased.
@see #reservedElasticsearchInstanceId(String)"
},
"http" : { 
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"setterDocumentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>\n@param reservedElasticsearchInstanceId Details of the reserved Elasticsearch instance which was purchased.",
"setterMethodName" : "setReservedElasticsearchInstanceId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : "<p>Details of the reserved Elasticsearch instance which was purchased.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getReservationName",
  "beanStyleSetterMethodName" : "setReservationName",
  "c2jName" : "ReservationName",
  "c2jShape" : "ReservationToken",
  "defaultConsumerFluentSetterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>\nThis is a convenience that creates an instance of the [\link String.Builder] avoiding the need to create one manually via [\link String#builder()].\n\nWhen the [\link Consumer] completes, [\link
String.Builder#build() is called immediately and its result is passed to {@link
#reservationName(String)}.\n@returns a consumer that will call methods on {@link
String.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see
#reservationName(String)
"deprecated" : false,
"documentation" : "<p>The customer-specified identifier used to track this reservation.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservationName",
"fluentSetterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
@returns The customer-specified identifier used to track this reservation.\n@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservationName",
"getterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
@returns The customer-specified identifier used to track this reservation.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"setterDocumentation" : "<p>The customer-specified identifier used to track this reservation.</p>
@returns The customer-specified identifier used to track this reservation.\n@returns Returns a reference to this object so that method calls can be chained together."
}
reservationName The customer-specified identifier used to track this reservation.

"setterMethodName" : "setReservationName",

"setterModel" : {

  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {

  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : "The customer-specified identifier used to track this reservation.

  \"\"",
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"xmlNameSpaceUri" : null
}]

"requestSignerAware" : false,

"requestSignerClassFqcn" : null,

"required" : null,

"shapeName" : "PurchaseReservedElasticsearchInstanceOfferingResponse",

"simpleMethod" : false,

"unmarshaller" : {

  "flattened" : false,
  "resultWrapper" : null
},

"variable" : {

  "variableDeclarationType" : "PurchaseReservedElasticsearchInstanceOfferingResponse",
  "variableName" : "purchaseReservedElasticsearchInstanceOfferingResponse",
  "variableType" : "PurchaseReservedElasticsearchInstanceOfferingResponse",
  "documentation" : null,
  "simpleType" : "PurchaseReservedElasticsearchInstanceOfferingResponse",
  "variableSetterType" : "PurchaseReservedElasticsearchInstanceOfferingResponse"
},

"wrapper" : false
},

"RecurringCharge" : {

  "c2jName" : "RecurringCharge",
  "customization" : {

    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
  }
}
"staxTargetDepthOffset" : 0,
},
"deprecated" : false,
"documentation" : "\p>Contains the specific price and frequency of a recurring charges for a reserved Elasticsearch instance, or for a reserved Elasticsearch instance offering.\p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
  "beanStyleGetterMethodName" : "getRecurringChargeAmount",
  "beanStyleSetterMethodName" : "setRecurringChargeAmount",
  "c2jName" : "RecurringChargeAmount",
  "c2jShape" : "Double",
  "defaultConsumerFluentSetterDocumentation" : "\p>The monetary amount of the recurring charge.\p>
This is a convenience that creates an instance of the \{ @link Double.Builder \} avoiding the need to create one manually via \{ @link Double#builder() \}.\n\nWhen the \{ @link Consumer \} completes, \{ @link Double.Builder#build() \} is called immediately and its result is passed to \{ @link recurringChargeAmount(Double) \}.\n\n@see recurringChargeAmount(Double)"
},
"deprecated" : false,
"documentation" : "\p>The monetary amount of the recurring charge.\p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringChargeAmount",
"fluentSetterDocumentation" : "\p>The monetary amount of the recurring charge.\p>
@param recurringChargeAmount The monetary amount of the recurring charge.\n@see recurringChargeAmount(Double)"
},
"getterDocumentation" : "\p>The monetary amount of the recurring charge.\p>
@return The monetary amount of the recurring charge.
@see recurringChargeAmount(Double)",
"getterModel" : {
  "returnType" : "Double",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RecurringChargeAmount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RecurringChargeAmount",
"uri" : false,

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "RecurringChargeAmount",
"setterDocumentation" : "<p>The monetary amount of the recurring charge.</p>
@param recurringChargeAmount The monetary amount of the recurring charge.",
"setterMethodName" : "setRecurringChargeAmount",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "recurringChargeAmount",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "recurringChargeAmount",
  "variableType" : "Double",
  "documentation" : "<p>The monetary amount of the recurring charge.</p>",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null,

"beanStyleGetterMethodName" : "getRecurringChargeFrequency",
"beanStyleSetterMethodName" : "setRecurringChargeFrequency",
"c2jName" : "RecurringChargeFrequency"
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The frequency of the recurring charge.</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via
{@link String.Builder#builder()}. When the [@link Consumer] completes, {@link String.Builder#build()} is called immediately and its result is passed to
{@link #recurringChargeFrequency(String)}.\n@param recurringChargeFrequency a consumer that will call methods on
{@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #recurringChargeFrequency(String),
"deprecated" : false,
"documentation" : "<p>The frequency of the recurring charge.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringChargeFrequency",
"fluentSetterDocumentation" : "<p>The frequency of the recurring charge.</p>
@param recurringChargeFrequency The frequency of the recurring charge.\n@return Returns a reference to this object so that method calls can be chained together.\n", "fluentSetterMethodName" : "recurringChargeFrequency",
"getterDocumentation" : "<p>The frequency of the recurring charge.</p>
@return The frequency of the recurring charge.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RecurringChargeFrequency",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RecurringChargeFrequency",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "RecurringChargeFrequency",
"setterDocumentation" : "<p>The frequency of the recurring charge.

\param recurringChargeFrequency
The frequency of the recurring charge.
",
"setterMethodName" : "setRecurringChargeFrequency",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "recurringChargeFrequency",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "recurringChargeFrequency",
"variableType" : "String",
"documentation" : "<p>The frequency of the recurring charge.

\param recurringChargeFrequency
The frequency of the recurring charge.
",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
},
"membersAsMap" : {
  "RecurringChargeAmount" : {
    "beanStyleGetterMethodName" : "getRecurringChargeAmount",
    "beanStyleSetterMethodName" : "setRecurringChargeAmount",
    "c2jName" : "RecurringChargeAmount",
    "c2jShape" : "Double",
    "defaultConsumerFluentSetterDocumentation" : "<p>The monetary amount of the recurring charge.

This is a convenience that creates an instance of the {@link Double.Builder} avoiding the need to create one manually via {@link Double#builder()}.

When the {@link Consumer} completes, {@link Double.Builder#build()} is called immediately and its result is passed to {@link #recurringChargeAmount(Double)}.

\param recurringChargeAmount a consumer that will call methods on {@link Double.Builder}

@see #recurringChargeAmount(Double)
",
    "deprecated" : false,
    "documentation" : "<p>The monetary amount of the recurring charge.

\param recurringChargeAmount
The monetary amount of the recurring charge.
",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "recurringChargeAmount",
    "fluentSetterDocumentation" : "<p>The monetary amount of the recurring charge.

\param recurringChargeAmount
The monetary amount of the recurring charge.

@see #recurringChargeAmount(Double)
",
    "timestampFormat" : null,
    "variable" : {
      "variableDeclarationType" : "Double",
      "variableName" : "recurringChargeAmount",
      "variableType" : "Double",
      "documentation" : "<p>The monetary amount of the recurring charge.

\param recurringChargeAmount
The monetary amount of the recurring charge.
",
      "simpleType" : "Double",
      "variableSetterType" : "Double"
    }
  }
}
"fluentSetterMethodName": "recurringChargeAmount",
"getterDocumentation": "<p>The monetary amount of the recurring charge.</p>\n@return The monetary amount of the recurring charge.",
"getterModel": {
"returnType": "Double",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "RecurringChargeAmount",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "RecurringChargeAmount",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "DOUBLE",
"name": "RecurringChargeAmount",
"setterDocumentation": "<p>The monetary amount of the recurring charge.</p>\n@param recurringChargeAmount The monetary amount of the recurring charge.",
"setterMethodName": "setRecurringChargeAmount",
"setterModel": {
"variableDeclarationType": "Double",
"variableName": "recurringChargeAmount",
"variableType": "Double",
"documentation": null,
"simpleType": "Double",
"variableSetterType": "Double"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "Double",
"variableName": "recurringChargeAmount"}
"variableType" : "Double",
"documentation" : "<p>The monetary amount of the recurring charge.</p>",
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
"RecurringChargeFrequency" : {
"beanStyleGetterMethodName" : "getRecurringChargeFrequency",
"beanStyleSetterMethodName" : "setRecurringChargeFrequency",
"c2jName" : "RecurringChargeFrequency",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The frequency of the recurring charge.</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via
[@link String#builder()].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to
[@link recurringChargeFrequency(String)].

@param recurringChargeFrequency a consumer that will call methods on [@link String.Builder]
@returns Returns a reference to this object so that method calls can be chained together.
@see #recurringChargeFrequency(String)",
"deprecated" : false,
"documentation" : "<p>The frequency of the recurring charge.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringChargeFrequency",
"fluentSetterDocumentation" : "<p>The frequency of the recurring charge.</p>
@param recurringChargeFrequency The frequency of the recurring charge.
@returns Returns a reference to this object so that method calls can be chained together.
"@param recurringChargeFrequency The frequency of the recurring charge.
@returns Returns a reference to this object so that method calls can be chained together.
",
"getterDocumentation" : "<p>The frequency of the recurring charge.</p>",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RecurringChargeFrequency",
"queryString" : false,
The frequency of the recurring charge.

@see #recurringChargeAmount(Double)

This is a convenience that creates an instance of the {Double.Builder} avoiding the need to create one manually via {Double.Builder#builder()}. When the {Consumer} completes, {Double.Builder#build()} is called immediately and its result is passed to {Double.recurringChargeAmount(Double)}.

@return Returns a reference to this object so that method calls can be chained together.

@see #recurringChargeAmount(Double)
"deprecated" : false,
"documentation" : "&lt;p&gt;The monetary amount of the recurring charge.&lt;/p&gt;",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringChargeAmount",
"fluentSetterDocumentation" : "&lt;p&gt;The monetary amount of the recurring charge.&lt;/p&gt;&lt;n&gt;@param recurringChargeAmount The monetary amount of the recurring charge.&lt;n&gt;@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "recurringChargeAmount",
"getterDocumentation" : "&lt;p&gt;The monetary amount of the recurring charge.&lt;/p&gt;&lt;n&gt;@return The monetary amount of the recurring charge."
"getterModel" : {
  "returnType" : "Double",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "RecurringChargeAmount",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "RecurringChargeAmount",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "RecurringChargeAmount",
"setterDocumentation" : "&lt;p&gt;The monetary amount of the recurring charge.&lt;/p&gt;&lt;n&gt;@param recurringChargeAmount The monetary amount of the recurring charge.&lt;n&gt;@return Returns a reference to this object so that method calls can be chained together.
"setterMethodName" : "setRecurringChargeAmount",
"setterModel" : {
  "variableDeclarationType" : "Double"
"variableName" : "recurringChargeAmount",
"variableType" : "Double",
"documentation" : null,
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Double",
"variableName" : "recurringChargeAmount",
"variableType" : "Double",
"documentation" : "<p>The monetary amount of the recurring charge.</p>",
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getRecurringChargeFrequency",
"beanStyleSetterMethodName" : "setRecurringChargeFrequency",
"c2jName" : "RecurringChargeFrequency",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The frequency of the recurring charge.</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String.Builder#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #recurringChargeFrequency(String)}.\n@param recurringChargeFrequency a consumer that will call methods on { @link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #recurringChargeFrequency(String)",
"deprecated" : false,
"documentation" : "<p>The frequency of the recurring charge.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringChargeFrequency",
"fluentSetterDocumentation" : "<p>The frequency of the recurring charge.</p>
@param recurringChargeFrequency The frequency of the recurring charge.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "recurringChargeFrequency",
"getterDocumentation" : "<p>The frequency of the recurring charge.</p>
@see #recurringChargeFrequency",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
The frequency of the recurring charge.

@\param recurringChargeFrequency

The frequency of the recurring charge.


"required" : null,
"shapeName" : "RecurringCharge",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "recurringCharge",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"wrapper" : false
},
"RemoveTagsRequest" : {
  "c2jName" : "RemoveTagsRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Container for the parameters to the RemoveTags operation. Specify the ARN for the Elasticsearch domain from which you want to remove the specified TagKey.",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : {
    "action" : "RemoveTags",
    "locationName" : null,
    "requestUri" : "/2015-01-01/tags-removal",
    "target" : null,
    "verb" : "POST",
    "xmlNameSpaceUri" : null
  }
}
"members" : [ 
    "beanStyleGetterMethodName" : "getArn",
    "beanStyleSetterMethodName" : "setArn",
    "c2jName" : "ARN",
    "c2jShape" : "ARN",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
    "deprecated" : false,
    "documentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "arn",
    "fluentSetterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
    "fluentSetterMethodName" : "arn",
    "getterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "ARN",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "ARN",
        "uri" : false
    }
]
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ARN",
"setterDocumentation": "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
@param arn Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.",
"setterMethodName": "setArn",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlnsSpaceUri": null
},
"beanStyleGetterMethodName": "getTagKeys",
"beanStyleSetterMethodName": "setTagKeys",
"c2jName": "TagKeys",
"c2jShape": "StringList",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>

This is a convenience that creates an instance of the { @link List<String>.Builder } avoiding the need to create one manually via { @link List<String>#builder() }. 

When the { @link Consumer } completes, { @link List<String>.Builder#build() } is called immediately and its result is passed to { @link #tagKeys(List<String>) }.

@deprecated

@see #tagKeys(List<String>)",
"deprecated": false,
"documentation": "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>"
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "tagKeys",
"fluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
@param tagKeys Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "tagKeys",
"getterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p><p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.",
"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "TagKeys",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "TagKeys",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()]. When the Consumer completes, [String.Builder#build()] is called immediately and its result is passed to [member(String)]

@see #member(String)

@returns a reference to this object so that method calls can be chained together.

@returns The new value for the Member property for this object.

@type String

@returns The value of the Member property for this object.

@returns a reference to this object so that method calls can be chained together.
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagKeys",
"setterDocumentation" : "<p>Specifies the TagKey list which you want to remove from the Elasticsearch domain.</p>

@param tagKeys Specifies the TagKey list which you want to remove from the Elasticsearch domain.",
"setterMethodName" : "setTagKeys",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "tagKeys",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
"variable" : {
    "variableDeclarationType" : "java.util.List<String>",
    "variableName" : "tagKeys",
    "variableType" : "java.util.List<String>",
    "documentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>",
    "simpleType" : "List<String>",
    "variableSetterType" : "java.util.Collection<String>"
  },
  "xmlNameSpaceUri" : null
}
},
"membersAsMap" : {
  "ARN" : {
    "beanStyleGetterMethodName" : "getArn",
    "beanStyleSetterMethodName" : "setArn",
    "c2jName" : "ARN",
    "c2jShape" : "ARN",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
This is a convenience that creates an instance of the
{@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the
{@link Consumer} completes, the
{@link Consumer#build()} is called immediately and its result is passed to
{@link String#builder()}. Returns a reference to this object so that method calls can be chained
together.

@see #arn(String)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "arn",
  "fluentSetterMethodName" : "arn",
  "fluentSetterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
@see #arn(String)",
  "getterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
@see #arn(String)",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "simple" : false,
    "timestampFormat" : null,
    "variable" : {
      "variableDeclarationType" : "java.util.List<String>",
      "variableName" : "tagKeys",
      "variableType" : "java.util.List<String>",
      "documentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>",
      "simpleType" : "List<String>",
      "variableSetterType" : "java.util.Collection<String>"
    },
    "xmlNameSpaceUri" : null
  }
}
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ARN",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ARN",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"setterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
@param arn Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.",
"setterMethodName" : "setArn",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "arn",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "arn",
 "variableType" : "String",
 "documentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>",
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
TagKeys: {
  "beanStyleGetterMethodName": "getTagKeys",
  "beanStyleSetterMethodName": "setTagKeys",
  "c2jName": "TagKeys",
  "c2jShape": "StringList",
  "defaultConsumerFluentSetterDocumentation": "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
  <p>This is a convenience that creates an instance of the [@link List<String>].Builder avoiding the need to create one manually via [@link List<String>#builder()]. When the [@link List<String>].Builder#build() is called immediately and its result is passed to [@link tagKeys(List<String>)].
  
  <param name="tagKeys" type="List<String>"/>
  <var name="tagKeys">a consumer that will call methods on [@link List<String>].Builder</var>
  
  <var name="tagKeys">@see tagKeys(List<String>)</var>
  
  <p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "tagKeys",
  "fluentSetterDocumentation": "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
  <p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
  <param name="tagKeys" type="List<String>"/>
  <var name="tagKeys">@return Returns a reference to this object so that method calls can be chained together.</var>
  "fluentSetterMethodName": "tagKeys",
  "getterDocumentation": "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>
  <p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
  <var name="tagKeys">@return Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</var>
  "getterModel": {
    "returnType": "java.util.List<String>",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "TagKeys",
    "queryString": false,
    "statusCode": false
  }
}
"unmarshallLocationName" : "TagKeys",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}.\nWhen the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link #member(String)\}.\n\n@see \#member(String)"
  }
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "merger" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "container" : null,
    "containerType" : null,
    "mergeRule" : null,
    "mergeRuleModel" : null,
    "mergeRuleShape" : null,
    "mergeRuleType" : null,
    "mergedModel" : null,
    "mergedModelType" : null,
    "mergedShape" : null
  }
}
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "member",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "member",
 "variableType" : "String",
 "documentation" : "",
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "TagKeys",
"setterDocumentation" : "&lt;p&gt;Specifies the &lt;code&gt;TagKey&lt;/code&gt; list which you want to remove from the Elasticsearch domain.&lt;/p&gt;
@param tagKeys Specifies the &lt;code&gt;TagKey&lt;/code&gt; list which you want to remove from the Elasticsearch domain.",
"setterMethodName" : "setTagKeys",
"setterModel" : {
  "variableDeclarationType" : "java.util.List&lt;String&gt;",
  "variableName" : "tagKeys",
  "variableType" : "java.util.List&lt;String&gt;",
  "documentation" : null,
  "simpleType" : "List&lt;String&gt;",
  "variableSetterType" : "java.util.Collection&lt;String&gt;"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List&lt;String&gt;",
  "variableName" : "tagKeys",
  "variableType" : "java.util.List&lt;String&gt;",
  "documentation" : "&lt;p&gt;Specifies the &lt;code&gt;TagKey&lt;/code&gt; list which you want to remove from the Elasticsearch domain.&lt;/p&gt;",
  "simpleType" : "List&lt;String&gt;",
  "variableSetterType" : "java.util.Collection&lt;String&gt;"
},
"xmlNameSpaceUri" : null
"
"
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getArn",
  "beanStyleSetterMethodName" : "setArn",
  "c2jName" : "ARN",
  "c2jShape" : "ARN",
  "defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;Specifies the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain from which you want to delete the specified tags.&lt;/p&gt;\n\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String#builder()}\n\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #arn(String)}.{\n\n@see \n@see #arn(String)",
  "deprecated" : false,
  "documentation" : "&lt;p&gt;Specifies the &lt;code&gt;ARN&lt;/code&gt; for the Elasticsearch domain from which you want to delete the specified tags.&lt;/p&gt;",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "arn",
"fluentSetterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
@param arn Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "arn",
"getterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
@return Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ARN",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ARN",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ARN",
"setterDocumentation" : "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.</p>
@param arn Specifies the <code>ARN</code> for the Elasticsearch domain from which you want to delete the specified tags.",
"setterMethodName" : "setArn",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "arn",
  "variableType" : "String"
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want
to delete the specified tags.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
  {
    "beanStyleGetterMethodName": "getTagKeys",
    "beanStyleSetterMethodName": "setTagKeys",
    "c2jName": "TagKeys",
    "c2jShape": "StringList",
    "defaultConsumerFluentSetterDocumentation": "<p>Specifies the <code>TagKey</code> list which you want
to remove from the Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link
List<String>.Builder} avoiding the need to create one manually via
{@link List<String>#builder()}. When the
{@link Collection#build()} is called immediately and its result is passed
to the method which will call methods on
{@link List<String>.Builder}.
@return Returns a reference to this object so that method calls can be chained
together.<a see #tagKeys(List<String>)>
"deprecated": false,
  "documentation": "<p>Specifies the <code>TagKey</code> list which you want to remove from the
Elasticsearch domain.</p>
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "tagKeys",
"fluentSetterDocumentation": "<p>Specifies the <code>TagKey</code> list which you want to remove from the
Elasticsearch domain.</p>
@link TagKeySpecifies the <code>TagKey</code> list which you want to remove from the
Elasticsearch domain.@return Returns a reference to this object so that method calls can be chained
together."
,"fluencSetterMethodName": "tagKeys",
  "getterDocumentation": "<p>Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.</p>
@link TagKeyAttempts to modify the collection returned by this method will result in an
UnsupportedOperationException.@return Specifies the <code>TagKey</code> list which you want to remove from the
Elasticsearch domain.";
  "getterModel": {
    "returnType": "java.util.List<String>",
"variable": {
  "variableDeclarationType": "String",
  "variableName": "arn",
  "variableType": "String",
  "documentation": "<p>Specifies the <code>ARN</code> for the Elasticsearch domain from which you want
to delete the specified tags.</p>",
  "simpleType": "String",
  "variableSetterType": "String"}
"documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "TagKeys",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "TagKeys",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "String",
    "defaultValue": "string",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the {\ link String.Builder} avoiding the need to create
one manually via {\ link String#builder()}.\nWhen the {\ link Consumer} completes, {\ link
String.Builder#build()} is called immediately and its result is passed to {\ link #member(String)}.{\ link param
member a consumer that will call methods on {\ link String.Builder})\n@ return Returns a reference to this object so
that method calls can be chained together.\n@ see #member(String)",
    "deprecated": false,
    "documentation": "",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "member",
    "fluentSetterMethodName": "member",
    "fluentSetterDocumentation": "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@ return Returns a reference to this object so that method
calls can be chained together.",
    "fluentSetterMethodType": "member",
    "interfaceType": "java.util.List",
    "listMemberModel": {
      "beanStyleGetterMethodName": "getMember",
      "beanStyleSetterMethodName": "setMember",
      "c2jName": "member",
      "c2jShape": "String",
      "defaultValue": "string",
      "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the {\ link String.Builder} avoiding the need to create
one manually via {\ link String#builder()}.\nWhen the {\ link Consumer} completes, {\ link
String.Builder#build()} is called immediately and its result is passed to {\ link #member(String)}.{\ link param
member a consumer that will call methods on {\ link String.Builder})\n@ return Returns a reference to this object so
that method calls can be chained together.\n@ see #member(String)",
      "deprecated": false,
      "documentation": "",
      "enumType": null,
      "eventHeader": false,
      "eventPayload": false,
      "fluentEnumGetterMethodName": null,
      "fluentEnumSetterMethodName": null,
      "fluentGetterMethodName": "member",
      "fluentSetterMethodName": "member",
      "fluentSetterDocumentation": "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@ return Returns a reference to this object so that method
calls can be chained together.",
      "fluentSetterMethodType": "member",
    }
  }
}
}
"getterDocumentation": "Returns the value of the Member property for this object.\n@return The value of the Member property for this object.",

"getterModel": {
  "returnType": "String",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "member",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "member",
  "uri": false
},

"idempotencyToken": false,

"isBinary": false,

"jsonValue": false,

"list": false,

"listModel": null,

"map": false,

"mapModel": null,

"marshallingType": "STRING",

"name": "Member",

"setterDocumentation": "Sets the value of the Member property for this object.\n@param member The new value for the Member property for this object.",

"setterMethodName": "setMember",

"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},

"simple": true,

"timestampFormat": null,

"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "variable"}
"documentation" : "",  
"simpleType" : "String",  
"variableSetterType" : "String"
},  
"xmlNameSpaceUri" : null  
},  
"memberLocationName" : null,  
"memberType" : "String",  
"map" : false,  
"memberAdditionalMarshallingPath" : null,  
"memberAdditionalUnmarshallingPath" : null,  
"simple" : true,  
"simpleType" : "String",  
"templateImplType" : "java.util.ArrayList<String>",  
"templateType" : "java.util.List<String>",
},  
"map" : false,  
"mapModel" : null,  
"marshallingType" : "LIST",  
"name" : "TagKeys",  
"setterDocumentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>

@param tagKeys Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.",  
"setterMethodName" : "setTagKeys",  
"setterModel" : {  
"variableDeclarationType" : "java.util.List<String>",  
"variableName" : "tagKeys",  
"variableType" : "java.util.List<String>",  
"documentation" : null,  
"simpleType" : "List<String>",  
"variableSetterType" : "java.util.Collection<String>",
},  
"simple" : false,  
"timestampFormat" : null,  
"variable" : {  
"variableDeclarationType" : "java.util.List<String>",  
"variableName" : "tagKeys",  
"variableType" : "java.util.List<String>",  
"documentation" : "<p>Specifies the <code>TagKey</code> list which you want to remove from the Elasticsearch domain.</p>

"simpleType" : "List<String>",  
"variableSetterType" : "java.util.Collection<String>",
},  
"xmlNameSpaceUri" : null  
} ]
"requestSignerAware" : false,  
"requestSignerClassFqcn" : null,  
"required" : [ "ARN", "TagKeys" ],
"shapeName": "RemoveTagsRequest",
"simpleMethod": false,
"unmarshaller": null,
"variable": {
  "variableDeclarationType": "RemoveTagsRequest",
  "variableName": "removeTagsRequest",
  "variableType": "RemoveTagsRequest",
  "documentation": null,
  "simpleType": "RemoveTagsRequest",
  "variableSetterType": "RemoveTagsRequest"
},
"wrapper": false
},
"RemoveTagsResponse": {
  "c2jName": "RemoveTagsResponse",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
    "staxTargetDepthOffset": 0
  },
  "deprecated": false,
  "documentation": null,
  "enums": null,
  "errorCode": null,
  "event": false,
  "eventStream": false,
  "explicitEventPayloadMember": null,
  "hasHeaderMember": false,
  "hasPayloadMember": false,
  "hasStatusCodeMember": false,
  "hasStreamingMember": false,
  "httpStatusCode": null,
  "marshaller": null,
  "members": [ ],
  "membersAsMap": { },
  "nonStreamingMembers": [ ],
  "requestSignerAware": false,
  "requestSignerClassFqcn": null,
  "required": null,
  "shapeName": "RemoveTagsResponse",
  "simpleMethod": false,
  "unmarshaller": {
    "flattened": false,
    "resultWrapper": null
  },
  "variable": {
"variableDeclarationType" : "RemoveTagsResponse",
"variableName" : "removeTagsResponse",
"variableType" : "RemoveTagsResponse",
"documentation" : null,
"simpleType" : "RemoveTagsResponse",
"variableSetterType" : "RemoveTagsResponse"
},
"wrapper" : false
},
"ReservedElasticsearchInstance" : {
"c2jName" : "ReservedElasticsearchInstance",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Details of a reserved Elasticsearch instance.</p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
"beanStyleGetterMethodName" : "getReservationName",
"beanStyleSetterMethodName" : "setReservationName",
"c2jName" : "ReservationName",
"c2jShape" : "ReservationToken",
"defaultConsumerFluentSetterDocumentation" : "<p>The customer-specified identifier to track this reservation.</p>
\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes, we call the String.Builder#build() method immediately and its result is passed to the @link #reservationName(String).\n\n@link #reservationName(String)\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #reservationName(String)"
},
"deprecated" : false,
"documentation" : "<p>The customer-specified identifier to track this reservation.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
@param reservationName The customer-specified identifier to track this reservation.
@return Returns a reference to this object so that method calls can be chained together.

@getterDocumentation: "The customer-specified identifier to track this reservation.

@getterModel: {
  "returnType": "String",
  "documentation": null
},

@http: {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayLoad": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "ReservationName",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "ReservationName",
  "uri": false
},

@idempotencyToken: false,
@isBinary: false,
@jsonValue: false,
@list: false,
@listModel: null,
@map: false,
@mapModel: null,
@marshallingType: "STRING",
@name: "ReservationName",
@setterDocumentation: "The customer-specified identifier to track this reservation.

@setterModel: {
  "variableDeclarationType": "String",
  "variableName": "reservationName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String""}
"reservationName": "String",
"documentation": "The customer-specified identifier to track this reservation."
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "reservationName",
"variableType": "String",
"documentation": "The customer-specified identifier to track this reservation."
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
],
"beanStyleGetterMethodName": "getReservedElasticsearchInstanceId",
"beanStyleSetterMethodName": "setReservedElasticsearchInstanceId",
"c2jName": "ReservedElasticsearchInstanceId",
"c2jShape": "GUID",
"defaultConsumerFluentSetterDocumentation": "The unique identifier for the reservation."
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called
immediately and its result is passed to {@link #reservedElasticsearchInstanceId(String)}.

@param reservedElasticsearchInstanceId a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceId(String)

"deprecated": false,
"documentation": "The unique identifier for the reservation."
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "reservedElasticsearchInstanceId",
"fluentSetterDocumentation": "The unique identifier for the reservation."
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "ReservedElasticsearchInstanceId",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "ReservedElasticsearchInstanceId",
"uri": false,
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"ListModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservedElasticsearchInstanceId",
"setterDocumentation": "<p>The unique identifier for the reservation.</p>
@param
reservedElasticsearchInstanceId The unique identifier for the reservation.

"setterMethodName": "setReservedElasticsearchInstanceId",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceId",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceId",
  "variableType": "String",
  "documentation": "<p>The unique identifier for the reservation.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"
"beanStyleGetterMethodName": "getReservedElasticsearchInstanceOfferingId",
"beanStyleSetterMethodName": "setReservedElasticsearchInstanceOfferingId",
"c2jName": "ReservedElasticsearchInstanceOfferingId",
"c2jShape": "String",
"defaultConsumerFluentSetterDocumentation": "<p>The offering identifier.</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link
When the `@link Consumer` completes, `@link String.Builder#build()` is called immediately and its result is passed to `@link reservedElasticsearchInstanceOfferingId(String)`. 

When the `@link Consumer` completes, `@link String.Builder#build()` is called immediately and its result is passed to `@link reservedElasticsearchInstanceOfferingId(String)`.

@see `#reservedElasticsearchInstanceOfferingId(String)`.

Returns a reference to this object so that method calls can be chained together.

@returns {ReservedElasticsearchInstanceOfferingId} The offering identifier.

@see `#reservedElasticsearchInstanceOfferingId(String)`.
The offering identifier.

"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : "<p>The offering identifier.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getElasticsearchInstanceTypeAsString",
  "beanStyleSetterMethodName" : "setElasticsearchInstanceType",
  "c2jName" : "ElasticsearchInstanceType",
  "c2jShape" : "ESPartitionInstanceType",
  "defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
When the Consumer completes, the String.Builder is called immediately and its result is passed to

"deprecated" : false,
"documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceType",
"fluentEnumSetterMethodName" : "elasticsearchInstanceType",
"fluentGetterMethodName" : "elasticsearchInstanceTypeAsString",
"fluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchInstanceType(String)",
"fluentSetterMethodName" : "elasticsearchInstanceType",
"getterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
If the service returns an enum value that is not available in the current SDK version, [ @link
#elasticsearchInstanceType} will return {@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #elasticsearchInstanceTypeAsString}.

<p>@return The Elasticsearch instance type offered by the reserved instance offering.</p>

@see ESPartitionInstanceType

```json
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchInstanceType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchInstanceType",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchInstanceType",
"setterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>

@see ESPartitionInstanceType",

"setterMethodName" : "setElasticsearchInstanceType",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType": "String",
"variableName": "elasticsearchInstanceType",
"variableType": "String",
"documentation": "The Elasticsearch instance type offered by the reserved instance offering.",
"simpleType": "String",
"variableSetterType": "String"
}
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getStartTime",
"beanStyleSetterMethodName": "setStartTime",
"c2jName": "StartTime",
"c2jShape": "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation": "The time the reservation started. This is a convenience that creates an instance of the java.time.Instant class avoiding the need to create one manually via Instant#builder(). When the Consumer completes, Instant.Builder#build() is called immediately and its result is passed to #startTime(Instant). @param startTime a consumer that will call methods on Instant.Builder@see #startTime(Instant)",
"deprecated": false,
"documentation": "The time the reservation started.",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "startTime",
"fluentSetterDocumentation": "The time the reservation started. When the reservation started:
@see #startTime(Instant)",
"fluentSetterMethodName": "startTime",
"getterDocumentation": "The time the reservation started.",
"getterModel": {
  "returnType": "java.time.Instant",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "startTime",
  "queryString": false,
  "statusCode": false,
"unmarshallLocationName": "StartTime",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INSTANT",
"name": "StartTime",
"setterDocumentation": "<p>The time the reservation started.</p>
@param startTime The time the reservation started.",
"setterMethodName": "setStartTime",
"setterModel": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "startTime",
  "variableType": "java.time.Instant",
  "documentation": null,
  "simpleType": "Instant",
  "variableSetterType": "java.time.Instant"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "startTime",
  "variableType": "java.time.Instant",
  "documentation": "<p>The time the reservation started.</p>",
  "simpleType": "Instant",
  "variableSetterType": "java.time.Instant"
},
"xmlnsNameSpaceUri": null
},
"beanStyleGetterMethodName": "getDuration",
"beanStyleSetterMethodName": "setDuration",
"c2jName": "Duration",
"c2jShape": "Integer",
"defaultConsumerFluentSetterDocumentation": "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>
This is a convenience that creates an instance of the [link Integer.Builder] avoiding the need to create one manually via [link Integer#builder()].
When the [link Consumer] completes, [link Integer.Builder#build()] is called immediately and its result is passed to [link #duration(Integer)].
@param duration a consumer that will call methods on [link Integer.Builder]
@returns Returns a reference to this object so that method calls can be chained together.
@see #duration(Integer)",
"deprecated": false,
"documentation": "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>",
"enumType": null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "duration",
"fluentSetterDocumentation" : 
"<p>The duration, in seconds, for which the Elasticsearch instance is reserved.
@param duration The duration, in seconds, for which the Elasticsearch instance is reserved.
@return Returns a reference to this object so that method calls can be chained together.
</p>
"fluentSetterMethodName" : "duration",
"getterDocumentation" : 
"<p>The duration, in seconds, for which the Elasticsearch instance is reserved.
@return The duration, in seconds, for which the Elasticsearch instance is reserved.
</p>
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Duration",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Duration",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "Duration",
"setterDocumentation" : 
"<p>The duration, in seconds, for which the Elasticsearch instance is reserved.
@param duration The duration, in seconds, for which the Elasticsearch instance is reserved.
</p>
"setterMethodName" : "setDuration",
"setterModel" : {
"variableDeclarationType" : "Integer",
"variableName" : "duration",
"variableType" : "Integer",
"documentation" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "FixedPrice",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "FixedPrice",
"uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "FixedPrice",
"setterDocumentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>
@param fixedPrice The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.",
"setterMethodName" : "setFixedPrice",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "fixedPrice",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "fixedPrice",
  "variableType" : "Double",
  "documentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
}
"beanStyleGetterMethodName" : "getUsagePrice",
"beanStyleSetterMethodName" : "setUsagePrice",
"c2jName" : "UsagePrice",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "\nThe rate you are charged for each hour for the domain that is using this reserved instance.
This is a convenience that creates an instance of the { @link Double.Builder} avoiding the need to create one manually via { @link Double#builder()}. When the { @link Consumer} completes, { @link Double.Builder#build()} is called immediately and its result is passed to { @link #usagePrice(Double)}.\n\n@returns a reference to this object so that method calls can be chained together.\n\n@see #usagePrice(Double)",
"deprecated" : false,
"documentation" : "The rate you are charged for each hour for the domain that is using this reserved instance."
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "usagePrice",
"fluentSetterDocumentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.\n\n@returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "usagePrice",
"getterDocumentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.
\n@return The rate you are charged for each hour for the domain that is using this reserved instance.,
"getterModel" : {
"returnType" : "Double",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UsagePrice",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UsagePrice",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "UsagePrice",
"setterDocumentation" : "<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>
@param usagePrice The rate you are charged for each hour for the domain that is using this reserved instance.",
"setterMethodName" : "setUsagePrice",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : "<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getCurrencyCode",
"beanStyleSetterMethodName" : "setCurrencyCode",
"c2jName" : "CurrencyCode",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
This is a convenience that creates an instance of the [Link String.Builder] avoiding the need to create one manually via [Link String#builder()].
When the [Link Consumer] completes, [Link String.Builder#build()] is called immediately and its result is passed to [Link #currencyCode(String)]
@return Returns a reference to this object so that method calls can be chained together.
@see #currencyCode(String)",
"deprecated" : false,
"documentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fleuentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "currencyCode",
"fluentSetterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param currencyCode The currency code for the reserved Elasticsearch instance offering.
@return
Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "currencyCode",
"getterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@return
The currency code for the reserved Elasticsearch instance offering.",
"getterModel" : {  
"returnType" : "String",
"documentation" : null
},
"http" : {  
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CurrencyCode",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CurrencyCode",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CurrencyCode",
"setterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param currencyCode The currency code for the reserved Elasticsearch instance offering.",
"setterMethodName" : "setCurrencyCode",
"setterModel" : {  
"variableDeclarationType" : "String",
"variableName" : "currencyCode",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
}
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchInstanceCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchInstanceCount",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "ElasticsearchInstanceCount",
"setterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>
@param
elasticsearchInstanceCount The number of Elasticsearch instances that have been reserved.
",
"setterMethodName" : "setElasticsearchInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : "The number of Elasticsearch instances that have been reserved.
",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getState",
  "beanStyleSetterMethodName" : "setState",
  "c2jName" : "State",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "The state of the reserved Elasticsearch instance.
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link..."
String.Builder#build()} is called immediately and its result is passed to {@link #state(String)}.
@param state a consumer that will call methods on { @link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #state(String),
"deprecated": false,
"documentation": "<p>The state of the reserved Elasticsearch instance. </p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "state",
"fluentSetterMethodName": "state",
"getterDocumentation": "<p>The state of the reserved Elasticsearch instance. </p>
@return The state of the reserved Elasticsearch instance.",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "State",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "State",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "State",
"setterDocumentation": "<p>The state of the reserved Elasticsearch instance. </p>
@param state The state of the reserved Elasticsearch instance.",

"setterMethodName" : "setState",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "state",
  "variableType" : "String",
  "documentation" : "The state of the reserved Elasticsearch instance.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getPaymentOptionAsString",
  "beanStyleSetterMethodName" : "setPaymentOption",
  "c2jName" : "PaymentOption",
  "c2jShape" : "ReservedElasticsearchInstancePaymentOption",
  "defaultConsumerFluentSetterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #paymentOptionAsString(String)}. The paymentOption a consumer that will call methods on { @link String.Builder}\n
@return Returns a reference to this object so that method calls can be chained together.\n
@see #paymentOption(String)",
  "deprecated" : false,
  "documentation" : "The payment option as defined in the reserved Elasticsearch instance offering.",
  "enumType" : "ReservedElasticsearchInstancePaymentOption",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "paymentOption",
  "fluentEnumSetterMethodName" : "paymentOption",
  "fluentGetterMethodName" : "paymentOptionAsString",
  "fluentSetterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance ordering.

The payment option as defined in the reserved Elasticsearch instance ordering.\n
@see ReservedElasticsearchInstancePaymentOption\n
@return Returns a reference to this object so that method calls can be chained together.\n
@see ReservedElasticsearchInstancePaymentOption",
  "fluentSetterMethodName" : "paymentOption",
  "getterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering.

If the service returns an enum value that is not available in the current SDK version, { @link #paymentOption} will return { @link
ReservedElasticsearchInstancePaymentOption#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link paymentOptionAsString }.

@return The payment option as defined in the reserved Elasticsearch instance offering.

@see ReservedElasticsearchInstancePaymentOption

"getterModel" : {
 "returnType" : "String",
 "documentation" : null
 },

"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "PaymentOption",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "PaymentOption",
 "uri" : false
 },

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "PaymentOption",

"setterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering.

@param paymentOption The payment option as defined in the reserved Elasticsearch instance offering.

@see ReservedElasticsearchInstancePaymentOption",

"setterMethodName" : "setPaymentOption",

"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "paymentOption",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
 },

"simple" : true,

"timestampFormat" : null,

"variable" : {
 "variableDeclarationType" : "String",}
"variableName" : "paymentOption",
"variableType" : "String",
"documentation" : "<p>The payment option as defined in the reserved Elasticsearch instance offering.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsSpaceUri" : null
],
{
"beanStyleGetterMethodName" : "getRecurringCharges",
"beanStyleSetterMethodName" : "setRecurringCharges",
"c2jName" : "RecurringCharges",
"c2jShape" : "RecurringChargeList",
"defaultConsumerFluentSetterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
This is a convenience that creates an instance of the { @link List<RecurringCharge>.Builder} avoiding the need to create one manually via { @link List<RecurringCharge>#builder()}. When the { @link Consumer} completes, { @link List<RecurringCharge>.Builder#build()} is called immediately and its result is passed to { @link List<RecurringCharge>}.<br>
@link recurringCharges(List<RecurringCharge>)<br>
@see recurringCharges(List<RecurringCharge>)

"deprecated" : false,
"documentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringCharges",
"fluentSetterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.<br>@return Returns a reference to this object so that method calls can be chained together.<br>
Attempts to modify the collection returned by this method will result in a UnsupportedOperationException.<br>@return The charge to your account regardless of whether you are creating any domains using the instance offering.<br>
@see recurringCharges(List<RecurringCharge>)",
"getterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>",
"getterModel" : {
"returnType" : "java.util.List<RecurringCharge>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RecurringCharges",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RecurringCharges",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "RecurringCharge",
    "defaultValue" : null,
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [ @link RecurringCharge.Builder ] avoiding the need to create one manually via [ @link RecurringCharge#builder() ]. When the [ @link Consumer ] completes, [ @link RecurringCharge.Builder#build() ] is called immediately and its result is passed to [ @link #member(RecurringCharge) ].

@see #member(RecurringCharge)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object. @param member The new value for the Member property for this object.

@see #member(RecurringCharge)",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.

@see #member(RecurringCharge)",
  "getterModel" : {
    "returnType" : "RecurringCharge",
    "documentation" : null
  },
  "http" : {

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"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},

{idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
,
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "RecurringCharge",
  "variableName": "member",
  "variableType": "RecurringCharge",
  "documentation": null,
  "simpleType": "RecurringCharge",
  "variableSetterType": "RecurringCharge"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "RecurringCharge",
  "variableName": "member",
  "variableType": "RecurringCharge",
  "documentation": "",
  "simpleType": "RecurringCharge",
  "variableSetterType": "RecurringCharge"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "RecurringCharge",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "RecurringCharge",
"templateImplType": "java.util.ArrayList<RecurringCharge>",
"templateType": "java.util.List<RecurringCharge>"}
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "RecurringCharges",
"setterDocumentation": "The charge to your account regardless of whether you are creating any domains using the instance offering.\n\n@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.",
"setterMethodName": "setRecurringCharges",
"setterModel": {
  "variableDeclarationType": "java.util.List<RecurringCharge>",
  "variableName": "recurringCharges",
  "variableType": "java.util.List<RecurringCharge>",
  "documentation": null,
  "simple": false,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "java.util.List<RecurringCharge>",
    "variableName": "recurringCharges",
    "variableType": "java.util.List<RecurringCharge>",
    "documentation": "The charge to your account regardless of whether you are creating any domains using the instance offering.\n\n\n@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.",
    "simple": false,
    "timestampFormat": null,
    "variable": {
      "variableDeclarationType": "java.util.List<RecurringCharge>",
      "variableName": "recurringCharges",
      "variableType": "java.util.List<RecurringCharge>",
      "documentation": "The currency code for the reserved Elasticsearch instance offering.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #currencyCode(String)}.\n\n@param currencyCode The currency code for the reserved Elasticsearch instance offering.""
  }
},
"xmlNameSpaceUri": null
}
},
"membersAsMap": {
  "CurrencyCode": {
    "beanStyleGetterMethodName": "getCurrencyCode",
    "beanStyleSetterMethodName": "setCurrencyCode",
    "c2jName": "CurrencyCode",
    "c2jShape": "String",
    "defaultConsumerFluentSetterDocumentation": "The currency code for the reserved Elasticsearch instance offering.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #currencyCode(String)}.\n\n@param currencyCode The currency code for the reserved Elasticsearch instance offering.""}
currencyCode a consumer that will call methods on { @link String.Builder }\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #currencyCode(String)

"deprecated" : false,
"documentation" : "<p>The currency code for the reserved Elasticsearch instance offering.\n</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentMethodName" : "currencyCode",
"fluentSetterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.\n</p>\n@param currencyCode The currency code for the reserved Elasticsearch instance offering.\n@return The currency code for the reserved Elasticsearch instance offering.\n",
"getterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.\n</p>
@param currencyCode The currency code for the reserved Elasticsearch instance offering.\n@return
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CurrencyCode",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CurrencyCode",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CurrencyCode",
"setterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.\n</p>\n@param currencyCode The currency code for the reserved Elasticsearch instance offering.\n@return
",
"setterMethodName" : "setCurrencyCode",\n
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"setterModel": {
    "variableDeclarationType": "String",
    "variableName": "currencyCode",
    "variableType": "String",
    "documentation": null,
    "simpleType": "String",
    "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
    "variableDeclarationType": "String",
    "variableName": "currencyCode",
    "variableType": "String",
    "documentation": "The currency code for the reserved Elasticsearch instance offering.\n",
    "simpleType": "String",
    "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"Duration": {
    "beanStyleGetterMethodName": "getDuration",
    "beanStyleSetterMethodName": "setDuration",
    "c2jName": "Duration",
    "c2jShape": "Integer",
    "defaultConsumerFluentSetterDocumentation": "The duration, in seconds, for which the Elasticsearch instance is reserved.\n\nThis is a convenience that creates an instance of the [\@link Integer.Builder] avoiding the need to create one manually via [\@link Integer.Builder].\n\nWhen the [\@link Consumer] completes, [\@link Integer.Builder#build()] is called immediately and its result is passed to [\@link #duration(Integer)].\n\n@param duration a consumer that will call methods on [\@link Integer.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #duration(Integer)\n",
    "deprecated": false,
    "documentation": "The duration, in seconds, for which the Elasticsearch instance is reserved.\n",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "duration",
    "fluentSetterDocumentation": "The duration, in seconds, for which the Elasticsearch instance is reserved.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n",
    "fluentSetterMethodName": "duration",
    "getterDocumentation": "The duration, in seconds, for which the Elasticsearch instance is reserved.\n",
    "getterModel": {
        "returnType": "Integer",
        "documentation": null
    }
}
"http": {
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "Duration",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "Duration",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INTEGER",
"name": "Duration",
"setterDocumentation": "The duration, in seconds, for which the Elasticsearch instance is reserved."
"setterMethodName": "setDuration",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "duration",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "duration",
  "variableType": "Integer",
  "documentation": "The duration, in seconds, for which the Elasticsearch instance is reserved."
},
"xmlNameSpaceUri": null
"ElasticsearchInstanceCount" : {
  "beanStyleGetterMethodName" : "getElasticsearchInstanceCount",
  "beanStyleSetterMethodName" : "setElasticsearchInstanceCount",
  "c2jName" : "ElasticsearchInstanceCount",
  "c2jShape" : "Integer",
  "defaultConsumerFluentSetterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>
  This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}. When the { @link Consumer} completes, { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #elasticsearchInstanceCount(Integer)}. The number of Elasticsearch instances that have been reserved.
  <p>The number of Elasticsearch instances that have been reserved.</p>
  @param elasticsearchInstanceCount a consumer that will call methods on { @link Integer.Builder}
  @return Returns a reference to this object so that method calls can be chained together.
  @see #elasticsearchInstanceCount(Integer)",
  "deprecated" : false,
  "documentation" : "The number of Elasticsearch instances that have been reserved.",
  "enumType" : null,
  "eventIdHeader" : false,
  "eventIdPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetMethodName" : "elasticsearchInstanceCount",
  "fluentSetterDocumentation" : "The number of Elasticsearch instances that have been reserved.
  @param elasticsearchInstanceCount The number of Elasticsearch instances that have been reserved.
  @return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterName" : "elasticsearchInstanceCount",
  "getterDocumentation" : "The number of Elasticsearch instances that have been reserved.
  @return The number of Elasticsearch instances that have been reserved.",
  "getterModel" : {
    "returnType" : "Integer",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ElasticsearchInstanceCount",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ElasticsearchInstanceCount",
    "uri" : false
  },
  "idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "ElasticsearchInstanceCount",
"setterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>
@param
elasticsearchInstanceCount The number of Elasticsearch instances that have been reserved.",
"setterMethodName" : "setElasticsearchInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchInstanceType" : {
  "beanStyleGetterMethodName" : "getElasticsearchInstanceTypeAsString",
  "beanStyleSetterMethodName" : "setElasticsearchInstanceType",
  "c2jName" : "ElasticsearchInstanceType",
  "c2jShape" : "ESPartitionInstanceType",
  "defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
  \n  This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link #builder()].\n  \n  When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #elasticsearchInstanceTypeAsString(String)].\n  @param
  elasticsearchInstanceType a consumer that will call methods on [@link String.Builder]\n  @return Returns a reference to this object so that method calls can be chained together.\n  @see #elasticsearchInstanceType(String)",
  "deprecated" : false,
  "documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
  "enumType" : "ESPartitionInstanceType",
  "eventHeader" : false,
  "eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceType",
"fluentEnumSetterMethodName" : "elasticsearchInstanceType",
"fluentGetterMethodName" : "elasticsearchInstanceTypeAsString",
"fluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.
@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType",
"fluentSetterMethodName" : "elasticsearchInstanceType",
"getterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
If the service returns an enum value that is not available in the current SDK version, [@link #elasticsearchInstanceType] will return [@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #elasticsearchInstanceTypeAsString].
@return The Elasticsearch instance type offered by the reserved instance offering.
@see ESPartitionInstanceType",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchInstanceType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchInstanceType",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchInstanceType",
"setterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.
@see ESPartitionInstanceType",
"setterMethodName" : "setElasticsearchInstanceType",
"setterModel" : {

"variableDeclarationType" : "String",
"variableName" : "elasticsearchInstanceType",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
"simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"FixedPrice" : {
  "beanStyleGetterMethodName" : "getFixedPrice",
  "beanStyleSetterMethodName" : "setFixedPrice",
  "c2jName" : "FixedPrice",
  "c2jShape" : "Double",
  "defaultValueConsumerFluentSetterDocumentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>
This is a convenience that creates an instance of the { @link Double.Builder} avoiding the need to create one manually via { @link Double#builder()}. When the { @link Consumer} completes, { @link Double.Builder#build()} is called immediately and its result is passed to { @link Double#fixedPrice(Double)}. @param fixedPrice a consumer that will call methods on { @link Double.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #fixedPrice(Double)",
  "deprecated" : false,
  "documentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "fixedPrice",
  "fluentSetterMethodName" : "fixedPrice",
  "fluentSetterDocumentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>
This is a convenience that creates an instance of the { @link Double.Builder} avoiding the need to create one manually via { @link Double#builder()}. When the { @link Consumer} completes, { @link Double.Builder#build()} is called immediately and its result is passed to { @link Double#fixedPrice(Double)}. @param fixedPrice a consumer that will call methods on { @link Double.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #fixedPrice(Double)",
  "getterDocumentation" : "<p>The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering. </p>
This is a convenience that creates an instance of the { @link Double.Builder} avoiding the need to create one manually via { @link Double#builder()}. When the { @link Consumer} completes, { @link Double.Builder#build()} is called immediately and its result is passed to { @link Double#fixedPrice(Double)}. @param fixedPrice a consumer that will call methods on { @link Double.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #fixedPrice(Double)",
  "getterModel" : {
The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

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The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.

The upfront fixed charge you will paid to purchase the specific reserved Elasticsearch instance offering.
"PaymentOption" : {
  "beanStyleGetterMethodName" : "getPaymentOptionAsString",
  "beanStyleSetterMethodName" : "setPaymentOption",
  "c2jName" : "PaymentOption",
  "c2jShape" : "ReservedElasticsearchInstancePaymentOption",
  "defaultConsumerFluentSetterDocumentation" : "<p>The payment option as defined in the reserved
Elasticsearch instance offering.</p>

This is a convenience that creates an instance of the {@link String.Builder}
avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes,
{@link String.Builder#build()} is called immediately and its result is passed to
{@link #paymentOptionAsString(String)}.

When the {@link Consumer} completes, the operation is passed to
{@link #paymentOptionAsString(String)}.

- @param paymentOption a consumer that will call methods on
- @return Returns a reference to this object so that method calls can be chained together.
- @see #paymentOption(String)

  - @deprecated : false,
  - documentation" : "<p>The payment option as defined in the reserved Elasticsearch instance offering.</p>",
  - enumType" : "ReservedElasticsearchInstancePaymentOption",
  - eventHeader" : false,
  - eventPayload" : false,
  - fluentEnumGetterMethodName" : "paymentOption",
  - fluentEnumSetterMethodName" : "paymentOption",
  - fluentGetterMethodName" : "paymentOptionAsString",
  - fluentSetterDocumentation" : "<p>The payment option as defined in the reserved Elasticsearch instance
offering.</p>

The payment option as defined in the reserved Elasticsearch instance
offering. When the operation is passed to
{@link #paymentOptionAsString(String)}.

- @return Returns a reference to this object so that method calls can be chained together.
- @see ReservedElasticsearchInstancePaymentOption

- fluentSetterMethodName" : "paymentOption",
- getterDocumentation" : "<p>The payment option as defined in the reserved Elasticsearch instance
offering.</p>

If the service returns an enum value that is not available in the current SDK version, the
raw value returned by the service is available from
{@link #paymentOptionAsString(String)}.

- @return The payment option as defined in the reserved Elasticsearch instance offering.
- @see ReservedElasticsearchInstancePaymentOption

- getModel" : {
  "returnType" : "String",
  "documentation" : null
}

- http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "PaymentOption",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "PaymentOption",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "PaymentOption",
"setterDocumentation" : "<p>The payment option as defined in the reserved Elasticsearch instance offering.</p>
@param paymentOption The payment option as defined in the reserved Elasticsearch instance offering.
@see ReservedElasticsearchInstancePaymentOption",
"setterMethodName" : "setPaymentOption",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : "<p>The payment option as defined in the reserved Elasticsearch instance offering.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"RecurringCharges" : {
  "beanStyleGetterMethodName" : "getRecurringCharges",
  "beanStyleSetterMethodName" : "setRecurringCharges",
  "c2jName" : "RecurringCharges",
  "c2jShape" : "RecurringChargeList",
  "defaultConsumerFluentSetterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
This is a convenience that creates an instance of the
{@link List<RecurringCharge>.Builder} avoiding the need to create one manually via {@link List<RecurringCharge>#builder()}.

When the {@link Consumer} completes, {@link List<RecurringCharge>.Builder#build()} is called immediately and its result is passed to {@link #recurringCharges(List<RecurringCharge>)}. @return Returns a reference to this object so that method calls can be chained together. @see #recurringCharges(List<RecurringCharge>)

"deprecated" : false,
"documentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringCharges",
"fluentSetterMethodName" : "recurringCharges",
"getterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

@p The charge to your account regardless of whether you are creating any domains using the instance offering.

@return Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
"returnType" : "java.util.List<RecurringCharge>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RecurringCharges",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RecurringCharges",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "RecurringCharge",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [@link RecurringCharge.Builder] avoiding the need to create one manually via [@link RecurringCharge#builder()]. When the [@link Consumer] completes, [@link RecurringCharge.Builder#build()] is called immediately and its result is passed to [@link #member(RecurringCharge)]. @param member a consumer that will call methods on [@link RecurringCharge.Builder] @return Returns a reference to this object so that method calls can be chained together. @see #member(RecurringCharge)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object. @return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object. @return The value of the Member property for this object.",
    "getterName" : "member",
    "getterModel" : {
      "returnType" : "RecurringCharge",
      "documentation" : null
    },
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flat" : false,
    "generate" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
  }
}
The charge to your account regardless of whether you are creating any domains
using the instance offering.

```java
@Param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.

"setterMethodName" : "setRecurringCharges",
"setterModel" : {
    "variableDeclarationType" : "java.util.List<RecurringCharge>",
    "variableName" : "recurringCharges",
    "variableType" : "java.util.List<RecurringCharge>",
    "documentation" : null,
    "simpleType" : "List<RecurringCharge>",
    "variableSetterType" : "java.util.Collection<RecurringCharge>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.List<RecurringCharge>",
    "variableName" : "recurringCharges",
    "variableType" : "java.util.List<RecurringCharge>",
    "documentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.",
    "simpleType" : "List<RecurringCharge>",
    "variableSetterType" : "java.util.Collection<RecurringCharge>",
},
"xmlNameSpaceUri" : null
```

"ReservationName" : {
    "beanStyleGetterMethodName" : "getReservationName",
    "beanStyleSetterMethodName" : "setReservationName",
    "c2jName" : "ReservationName",
    "c2jShape" : "ReservationToken",
    "defaultConsumerFluentSetterDocumentation" : "The customer-specified identifier to track this reservation.

\nThis is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create one manually via \{ @link String#builder() \}. When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #reservationName(String) \}.\n
@Param reservationName a consumer that will call methods on \{ @link String.Builder \}\n\n@Return Returns a reference to this object so that method calls can be chained together.\n\n@see #reservationName(String)",
    "deprecated" : false,
    "documentation" : "The customer-specified identifier to track this reservation.",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "reservationName",
    "fluentSetterDocumentation" : "The customer-specified identifier to track this reservation.",
    "fluentSetterMethodName" : "reservationName",
}````
"getterDocumentation" : 
"<p>The customer-specified identifier to track this reservation.</p>

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservationName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservationName",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "ReservationName",

"setterDocumentation" : 
"<p>The customer-specified identifier to track this reservation.</p>

"setterMethodName" : "setReservationName",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String"
"documentation" : "The customer-specified identifier to track this reservation.",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsSpaceUri" : null
},
"ReservedElasticsearchInstanceId" : {
"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
"c2jName" : "ReservedElasticsearchInstanceId",
"c2jShape" : "GUID",
"defaultConsumerFluentSetterDocumentation" : "The unique identifier for the reservation.
This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder().
When the Consumer completes, String#build() is called immediately and its result is passed to #reservedElasticsearchInstanceId(String).

@return Returns a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceId(String)",
"deprecated" : false,
"documentation" : "The unique identifier for the reservation.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "The unique identifier for the reservation.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "reservedElasticsearchInstanceId",
"getterDocumentation" : "The unique identifier for the reservation.

@return The unique identifier for the reservation.
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId",
"setterDocumentation" : "<p>The unique identifier for the reservation.</p>
@param
reservedElasticsearchInstanceId The unique identifier for the reservation.
"setterMethodName" : "setReservedElasticsearchInstanceId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceId",
  "variableType" : "String",
  "documentation" : "<p>The unique identifier for the reservation.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"ReservedElasticsearchInstanceOfferingId" : {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
  "c2jName" : "ReservedElasticsearchInstanceOfferingId",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "<p>The offering identifier.</p>
This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String.Builder#build()].

When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #reservedElasticsearchInstanceOfferingId(String)].

@return
Returns a reference to this object so that method calls can be chained together.
@see
#reservedElasticsearchInstanceOfferingId(String)"
"deprecated" : false,
"documentation" : "<p>The offering identifier.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "<p>The offering identifier.</p>
@param reservedElasticsearchInstanceOfferingId The offering identifier.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"getterDocumentation" : "<p>The offering identifier.</p>
@return The offering identifier.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceOfferingId",
"setterDocumentation" : "<p>The offering identifier.</p>
@param reservedElasticsearchInstanceOfferingId The offering identifier.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId"
}
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "reservedElasticsearchInstanceOfferingId",
  "variableType": "String",
  "documentation": "<p>The offering identifier.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"StartTime": {
"beanStyleGetterMethodName": "getStartTime",
"beanStyleSetterMethodName": "setStartTime",
"c2jName": "StartTime",
"c2jShape": "UpdateTimestamp",
"defaultConsumerFluentSetterDocumentation": "<p>The time the reservation started.</p>
This is a convenience that creates an instance of the [ @link Instant.Builder] avoiding the need to create one manually via [ @link Instant#builder()].

When the [ @link Consumer] completes, [ @link Instant.Builder#build()] is called immediately and its result is passed to [ @link #startTime(Instant)].

@param startTime a consumer that will call methods on [ @link Instant.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #startTime(Instant)"
,"deprecated": false,
"documentation": "<p>The time the reservation started.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "startTime",
"fluentSetterDocumentation": "<p>The time the reservation started.</p>
@return The time the reservation started.
@see #startTime(Instant)
","getterModel": {
  "returnType": "java.time.Instant",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "StartTime",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StartTime",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "StartTime",
"setterDocumentation" : "<p>The time the reservation started.</p><p>@param startTime The time the reservation started.</p>
"setterMethodName" : "setStartTime",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTime",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTime",
  "variableType" : "java.time.Instant",
  "documentation" : "<p>The time the reservation started.</p>",
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"State" : {
  "beanStyleGetterMethodName" : "getState",
  "beanStyleSetterMethodName" : "setState",
}
"c2jName" : "State",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to
create one manually via {@link String.Builder#builder()}. When the { @link Consumer} completes, { @link
String.Builder#build()} is called immediately and its result is passed to { @link #state(String)}. @param state a consumer that will call methods on { @link String.Builder} @return Returns a reference to this object so that method calls can be chained together.@see #state(String)

"deprecated" : false,
"documentation" : "<p>The state of the reserved Elasticsearch instance.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "state",
"fluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
@param state The state of the reserved Elasticsearch instance.
@return Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
@return The state of the reserved Elasticsearch instance.",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
 },
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "State",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "State",
 "uri" : false
 },
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
The state of the reserved Elasticsearch instance.

@param state The state of the reserved Elasticsearch instance.

@see #usagePrice(Double)
The rate you are charged for each hour for the domain that is using this reserved instance.

@param usagePrice

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "usagePrice",
"getterDocumentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.

@return The rate you are charged for each hour for the domain that is using this reserved instance.

"getterModel" : {
    "returnType" : "Double",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,"header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "UsagePrice",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "UsagePrice",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "UsagePrice",
"setterDocumentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.

@param usagePrice

@return Returns a reference to this object so that method calls can be chained together.

"setterMethodName" : "setUsagePrice",
"setterModel" : {
    "variableDeclarationType" : "Double",
    "variableName" : "usagePrice",
    "variableType" : "Double",
    "documentation" : null,
    "simpleType" : "Double",
    "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : "<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getReservationName",
  "beanStyleSetterMethodName" : "setReservationName",
  "c2jName" : "ReservationName",
  "c2jShape" : "ReservationToken",
  "defaultConsumerFluentSetterDocumentation" : "<p>The customer-specified identifier to track this reservation.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the @link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #reservationName(String)}.\n\n@param reservationName a consumer that will call methods on {@link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #reservationName(String)",
  "deprecated" : false,
  "documentation" : "<p>The customer-specified identifier to track this reservation.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "reservationName",
  "fluentSetterDocumentation" : "<p>The customer-specified identifier to track this reservation.</p>
@param reservationName The customer-specified identifier to track this reservation.\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #reservationName(String)",
  "getterDocumentation" : "<p>The customer-specified identifier to track this reservation.</p>
@return The customer-specified identifier to track this reservation.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservationName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservationName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservationName",
"setterDocumentation" : "\n@param reservationName The customer-specified identifier to track this reservation.\n\n@\param reservationName The customer-specified identifier to track this reservation.",
"setterMethodName" : "setReservationName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservationName",
  "variableType" : "String",
  "documentation" : "\nThe customer-specified identifier to track this reservation.\n\n@\param reservationName The customer-specified identifier to track this reservation.",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceId",
"c2jName" : "ReservedElasticsearchInstanceId",
"c2jShape" : "GUID",
"defaultConsumerFluentSetterDocumentation" : "\nThe unique identifier for the reservation.\n\nThis is a convenience that creates an instance of the [\n@link String.Builder] avoiding the need to create one manually via
When the @link Consumer completes, @link String.Builder.build() is called immediately and its result is passed to @link reservedElasticsearchInstanceId(String).@n

@return Returns a reference to this object so that method calls can be chained together.

@see reservedElasticsearchInstanceId(String)

"deprecated" : false,
"documentation" : "<p>The unique identifier for the reservation.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceId",
"fluentSetterDocumentation" : "<p>The unique identifier for the reservation.</p>",
"getterDocumentation" : "<p>The unique identifier for the reservation.</p>",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ReservedElasticsearchInstanceId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ReservedElasticsearchInstanceId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceId"
"returnType" : "String",
"documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceOfferingId",
"setterDocumentation" : "<p>The offering identifier.</p>\n@param reservedElasticsearchInstanceOfferingId
The offering identifier.,
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "reservedElasticsearchInstanceOfferingId",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "reservedElasticsearchInstanceOfferingId",
 "variableType" : "String",
 "documentation" : "<p>The offering identifier.</p>",
 "simpleType" : "String",
 "variableSetterType" : "String"
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchInstanceType",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchInstanceType",
"setterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
@param elasticsearchInstanceType The Elasticsearch instance type offered by the reserved instance offering.
@see ESPartitionInstanceType",
"setterMethodName" : "setElasticsearchInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getStartTime",
  "beanStyleSetterMethodName" : "setStartTime",
  "c2jName" : "StartTime",
  "c2jShape" : "UpdateTimestamp",
  "defaultConsumerFluentSetterDocumentation" : "<p>The time the reservation started.</p>\nThis is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via{@link Instant.Builder}.\n\nWhen the {@link Consumer} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to{@link #startTime(Instant)}\n\n@see #startTime(Instant)",
  "@param startTime a consumer that will call methods on { @link Instant.Builder}\n  @return Returns a reference to this object so that method calls can be chained together.\n  @see #startTime(Instant)"}
"deprecated" : false,
"documentation" : "The time the reservation started.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "startTime",
"fluentSetterDocumentation" : "The time the reservation started.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "startTime",
"getterDocumentation" : "The time the reservation started.
@return The time the reservation started.",
"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StartTime",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StartTime",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "StartTime",
"setterDocumentation" : "The time the reservation started.
@param startTime The time the reservation started.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setStartTime",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTime",
  "variableType" : "java.time.Instant"
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Duration",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Duration",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "Duration",
"setterDocumentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is
reserved.</p>\n@param duration The duration, in seconds, for which the Elasticsearch instance is reserved.",
"setterMethodName" : "setDuration",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : "<p>The duration, in seconds, for which the Elasticsearch instance is reserved.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getFixedPrice",
"beanStyleSetterMethodName" : "setFixedPrice",
"c2jName" : "FixedPrice",
"c2jShape" : "Double",}
"defaultConsumerFluentSetterDocumentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. This is a convenience that creates an instance of the [Double.Builder] avoiding the need to create one manually via [Double.builder()]. When the [Consumer] completes, [Double.Builder#build()] is called immediately and its result is passed to [Double#fixedPrice(Double)].

@see fixedPrice(Double)\n
This is a convenience that creates an instance of the [Double.Builder] avoiding the need to create one manually via [Double.builder()]. When the [Consumer] completes, [Double.Builder#build()] is called immediately and its result is passed to [Double#fixedPrice(Double)].

@see fixedPrice(Double)

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n
The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n
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The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. 

```
@Param fixedPrice
```

```java
@Param fixedPrice
```

## FixedPrice

### Description

The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

### Setter Method

```java
public void setFixedPrice(double fixedPrice);```

### Mapping Details

- **Marshalling Type**: `DOUBLE`
- **Name**: `FixedPrice`
- **Setter Method Name**: `setFixedPrice`
- **Setter Model**:
  - **Variable Declaration Type**: `Double`
  - **Variable Name**: `fixedPrice`
  - **Variable Type**: `Double`
  - **Documentation**: The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
  - **Simple Type**: `Double`
  - **Variable Setter Type**: `Double`

---

## UsagePrice

### Description

The rate you are charged for each hour for the domain that is using this reserved instance.

This is a convenience that creates an instance of the `Double.Builder` avoiding the need to create one manually via `Double.builder()`. When the `Consumer` completes, `Double.Builder#build()` is called immediately and its result is passed to `UsagePrice(Double)`. A `Consumer` a consumer that will call methods on `Double.Builder`.

### Setter Method

```java
public void setUsagePrice(double usagePrice);```

### Mapping Details

- **Bean Style Getter Method Name**: `getUsagePrice`
- **Bean Style Setter Method Name**: `setUsagePrice`
- **C2J Name**: `UsagePrice`
- **C2J Shape**: `Double`
- **Default Consumer Fluent Setter Documentation**: The rate you are charged for each hour for the domain that is using this reserved instance.

This is a convenience that creates an instance of the `Double.Builder` avoiding the need to create one manually via `Double.builder()`. When the `Consumer` completes, `Double.Builder#build()` is called immediately and its result is passed to `UsagePrice(Double)`.

- **Deprecated**: `false`
- **Documentation**: The rate you are charged for each hour for the domain that is using this reserved instance.
"fluentGetterMethodName" : "usagePrice",
"fluentSetterDocumentation" : "<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>
@param usagePrice The rate you are charged for each hour for the domain that is using this reserved instance.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "usagePrice",
"getterDocumentation" : "<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>
@return The rate you are charged for each hour for the domain that is using this reserved instance.",
"getterModel" : {
  "returnType" : "Double",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UsagePrice",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UsagePrice",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "UsagePrice",
"setterDocumentation" : "<p>The rate you are charged for each hour for the domain that is using this reserved instance.</p>
@param usagePrice The rate you are charged for each hour for the domain that is using this reserved instance.",
"setterMethodName" : "setUsagePrice",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
}.
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Double",
    "variableName" : "usagePrice",
    "variableType" : "Double",
    "documentation" : "The rate you are charged for each hour for the domain that is using this reserved instance.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #currencyCode(String)].\n\n@param currencyCode a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #currencyCode(String)",
    "deprecated" : false,
    "documentation" : "The currency code for the reserved Elasticsearch instance offering.
\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #currencyCode(String)].\n\n@param currencyCode a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #currencyCode(String)",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "currencyCode",
    "fluentSetterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #currencyCode(String)].\n\n@param currencyCode a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #currencyCode(String)",
    "getterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #currencyCode(String)].\n\n@param currencyCode a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #currencyCode(String)",
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "CurrencyCode",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "CurrencyCode",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "CurrencyCode",
"setterDocumentation": "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param
currencyCode The currency code for the reserved Elasticsearch instance offering.",
"setterMethodName": "setCurrencyCode",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "currencyCode",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "currencyCode",
  "variableType": "String",
  "documentation": "<p>The currency code for the reserved Elasticsearch instance offering.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getElasticsearchInstanceCount",
"beanStyleSetterMethodName": "setElasticsearchInstanceCount",
"c2jName": "ElasticsearchInstanceCount",
"c2jShape": "Integer",
"defaultConsumerFluentSetterDocumentation": "<p>The number of Elasticsearch instances that have been reserved.</p>

This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer#builder()].

When the [@link Consumer] completes, [@link
Integer.Builder#build()} is called immediately and its result is passed to \{@link
elasticsearchInstanceCount(Integer)\}@param elasticsearchInstanceCount a consumer that will call methods on
\{@link Integer.Builder\}@return Returns a reference to this object so that method calls can be chained
together.@see #elasticsearchInstanceCount(Integer)"
"deprecated" : false,
"documentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "elasticsearchInstanceCount",
"fluentSetterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>"\n@para..."The number of Elasticsearch instances that have been reserved.</p>\n@para...The number of Elasticsearch instances that have been reserved.",
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchInstanceCount",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchInstanceCount",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "ElasticsearchInstanceCount",
"setterDocumentation" : "<p>The number of Elasticsearch instances that have been reserved.</p>\n@para...
elasticsearchInstanceCount The number of Elasticsearch instances that have been reserved.

"setterMethodName" : "setElasticsearchInstanceCount",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "elasticsearchInstanceCount",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},
"
  "beanStyleGetterMethodName" : "getState",
  "beanStyleSetterMethodName" : "setState",
  "c2jName" : "State",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #state(String)}. @param state a consumer that will call methods on { @link String.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #state(String)",
  "deprecated" : false,
  "documentation" : "<p>The state of the reserved Elasticsearch instance.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "state",
  "fluentSetterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>@param state The state of the reserved Elasticsearch instance.@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "state",
  "getterDocumentation" : "<p>The state of the reserved Elasticsearch instance.</p>@return The state of the reserved Elasticsearch instance.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableDeclarationType" : "String",
    "variableName" : "state",
    "variableType" : "String",
    "variableSetterType" : "String"
  },
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "state",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "xmlNameSpaceUri" : null
}
"documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "State",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "State",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "State",
"setterDocumentation": "<p>The state of the reserved Elasticsearch instance.</p>@param state The state of the reserved Elasticsearch instance.",
"setterMethodName": "setState",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "state",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "state",
  "variableType": "String",
  "documentation": "<p>The state of the reserved Elasticsearch instance.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
}
"xmlNameSpaceUri" : null
},
  "beanStyleGetterMethodName" : "getPaymentOptionAsString",
  "beanStyleSetterMethodName" : "setPaymentOption",
  "c2jName" : "PaymentOption",
  "c2jShape" : "ReservedElasticsearchInstancePaymentOption",
  "defaultConsumerFluentSetterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering.",
  "deprecated" : false,
  "documentation" : "The payment option as defined in the reserved Elasticsearch instance offering.",
  "enumType" : "ReservedElasticsearchInstancePaymentOption",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "paymentOption",
  "fluentEnumSetterMethodName" : "paymentOption",
  "fluentGetterMethodName" : "paymentOptionAsString",
  "fluentSetterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering.
@see ReservedElasticsearchInstancePaymentOption
@return Returns a reference to this object so that method calls can be chained together.
@see ReservedElasticsearchInstancePaymentOption",
  "fluentSetterMethodName" : "paymentOption",
  "getterDocumentation" : "The payment option as defined in the reserved Elasticsearch instance offering.
If the service returns an enum value that is not available in the current SDK version, [ReservedElasticsearchInstancePaymentOption#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [ReservedElasticsearchInstancePaymentOption#paymentOptionAsString].

  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "PaymentOption",
    "queryString" : false,
  }
}
"statusCode": false,
"unmarshallLocationName": "PaymentOption",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "PaymentOption",
"setterDocumentation": "The payment option as defined in the reserved Elasticsearch instance offering.
@see ReservedElasticsearchInstancePaymentOption",
"setterMethodName": "setPaymentOption",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "paymentOption",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "paymentOption",
  "variableType": "String",
  "documentation": "The payment option as defined in the reserved Elasticsearch instance offering."
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getRecurringCharges",
"beanStyleSetterMethodName": "setRecurringCharges",
"c2jName": "RecurringCharges",
"c2jShape": "RecurringChargeList",
"defaultConsumerFluentSetterDocumentation": "The charge to your account regardless of whether you are creating any domains using the instance offering.
This is a convenience that creates an instance of the List<RecurringCharge>.Builder avoiding the need to create one manually via List<RecurringCharge>#builder(). When the Consumer completes, List<RecurringCharge>.Builder#build() is called immediately and its result is passed to List<RecurringCharge>(List<RecurringCharge>).
@param recurringCharges a consumer that will call methods on List<RecurringCharge>.Builder
@return Returns a reference to this object so that method calls can be
chained together.

```java
@see #recurringCharges(List<RecurringCharge>)
```

```
deprecated" : false,
documentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

```java
@param recurringCharges
```

```
return
```

```
returns a reference to this object so that method calls can be chained together.
```

```
getterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

```java
@returns
```

```
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

```java
@return
```

```
The charge to your account regardless of whether you are creating any domains using the instance offering.

```java

```
ensure the collection is correct before returning.
```

```
getterModel" : {

```
returnType" : "java.util.List<RecurringCharge>",
documentation" : null
```

```
http" : {

```
additionalMarshallingPath" : null,
additionalUnmarshallingPath" : null,
flattened" : false,
greedy" : false,
header" : false,
isPayload" : false,
isStreaming" : false,
location" : null,
marshallLocation" : "PAYLOAD",
marshallLocationName" : "RecurringCharges",
queryString" : false,
statusCode" : false,
unmarshallLocationName" : "RecurringCharges",
uri" : false
```

```
getIdempotencyToken" : false,
isBinary" : false,
jsonValue" : false,
list" : true,
listModel" : {

```
implementType" : "java.util.ArrayList",
interfaceType" : "java.util.List",
listMemberModel" : {

```
beanStyleGetterMethodName" : "getMember",
```
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "RecurringCharge",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [@link RecurringCharge.Builder] avoiding the need to create one manually via [@link RecurringCharge#builder()]. When the [@link Consumer] completes, [@link RecurringCharge.Builder#build()] is called immediately and its result is passed to [@link #member(RecurringCharge)].

@see #member(RecurringCharge)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@see #member(RecurringCharge)",
"getterDocumentation" : "Returns the value of the Member property for this object.

@see #member(RecurringCharge)",
"getterModel" : {
"returnType" : "RecurringCharge",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
    "variableDeclarationType" : "RecurringCharge",
    "variableName" : "member",
    "variableType" : "RecurringCharge",
    "documentation" : null,
    "simpleType" : "RecurringCharge",
    "variableSetterType" : "RecurringCharge"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "RecurringCharge",
    "variableName" : "member",
    "variableType" : "RecurringCharge",
    "documentation" : "",
    "simpleType" : "RecurringCharge",
    "variableSetterType" : "RecurringCharge"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "Recurring Charge",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "RecurringCharge",
"templateImplType" : "java.util.ArrayList<RecurringCharge>",
"templateType" : "java.util.List<RecurringCharge>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "RecurringCharges",
"setterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.",
"setterMethodName" : "setRecurringCharges",
"setterModel" : {
    "variableDeclarationType" : "java.util.List<RecurringCharge>",
    "variableName" : "recurringCharges",
    "variableType" : "java.util.List<RecurringCharge>"
}
The charge to your account regardless of whether you are creating any domains using the instance offering.

```xml
"variableName" : "recurringCharges",
"variableType" : "java.util.List<RecurringCharge>",
"documentation" : null,
"simpleType" : "List<RecurringCharge>",
"variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<RecurringCharge>",
"variableName" : "recurringCharges",
"variableType" : "java.util.List<RecurringCharge>",
"documentation" : "<p>The charge to your account regardless of whether you are creating any domains using
```
"documentation": "Details of a reserved Elasticsearch instance offering.<p>"",
"enums": null,
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [ 
  "beanStyleGetterMethodName": "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName": "setReservedElasticsearchInstanceOfferingId",
  "c2jName": "ReservedElasticsearchInstanceOfferingId",
  "c2jShape": "GUID",
  "defaultConsumerFluentSetterDocumentation": "The Elasticsearch reserved instance offering identifier. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #reservedElasticsearchInstanceOfferingId(String)}.
@deprecated
@see #reservedElasticsearchInstanceOfferingId(String)",
  "documentation": "The Elasticsearch reserved instance offering identifier.<p>"",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "reservedElasticsearchInstanceOfferingId",
  "fluentSetterDocumentation": "The Elasticsearch reserved instance offering identifier.<p>"",
  "fluentSetterMethodName": "reservedElasticsearchInstanceOfferingId",
  "getterDocumentation": "The Elasticsearch reserved instance offering identifier.<p>"",
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flatten": false,
    "greedy": false,
    "header": false,
  }
]
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceOfferingId",
"setterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>
@param
reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier.
",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getElasticsearchInstanceTypeAsString",
"beanStyleSetterMethodName" : "setElasticsearchInstanceType",
"c2jName" : "ElasticsearchInstanceType",
"c2jShape" : "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the
need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #elasticsearchInstanceTypeAsString(String)}.

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #elasticsearchInstanceTypeAsString(String)}.

@param elasticsearchInstanceType a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchInstanceType(String)

"deprecated" : false,
"documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
"enumType" : "ESPartitionInstanceType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "elasticsearchInstanceType",
"fluentEnumSetterMethodName" : "elasticsearchInstanceType",
"fluentGetterMethodName" : "elasticsearchInstanceTypeAsString",
"fluentSetterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>

@see ESPartitionInstanceType
@return Returns a reference to this object so that method calls can be chained together.
@see ESPartitionInstanceType",

"fluentSetterMethodName" : "elasticsearchInstanceType",
"getterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>

If the service returns an enum value that is not available in the current SDK version, [@link #elasticsearchInstanceType] will return [@link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #elasticsearchInstanceTypeAsString].

@return The Elasticsearch instance type offered by the reserved instance offering.
@see ESPartitionInstanceType"

"getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchInstanceType",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchInstanceType",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ElasticsearchInstanceType",
"setterDocumentation": "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
@see ESPartitionInstanceType",
"setterMethodName": "setElasticsearchInstanceType",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "elasticsearchInstanceType",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "elasticsearchInstanceType",
  "variableType": "String",
  "documentation": "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
{"beanStyleGetterMethodName": "getDuration",
"beanStyleSetterMethodName": "setDuration",
"c2jName": "Duration",
"c2jShape": "Integer",
"defaultConsumerFluentSetterDocumentation": "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>

This is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to create one manually via { @link Integer#builder()}. When the { @link Integer.Builder#build()} is called immediately and its result is passed to { @link #duration(Integer)}. Returns a reference to this object so that method calls can be chained together.

@deprecated": false,
"documentation": "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "duration",}
"fluentSetterDocumentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.
@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "duration",
"getterDocumentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.
@return The duration, in seconds, for which the offering will reserve the Elasticsearch instance."
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Duration",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Duration",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "Duration",
"setterDocumentation" : "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.
@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance."
"setterMethodName" : "setDuration",
"setterModel" : {
"variableDeclarationType" : "Integer",
"variableName" : "duration",
"variableType" : "Integer",
"documentation" : null,
"simpleType" : "Integer",
"variableSetterType" : "Integer"
},
"simple" : true,
The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.

public void setFixedPrice(double fixedPrice) {
    this.fixedPrice = fixedPrice;
}

public double getFixedPrice() {
    return fixedPrice;
}
The rate you are charged for each hour the domain that is using the offering is running.

This is a convenience that creates an instance of the `Double.Builder` avoiding the need to create one manually via `Double.builder()`. When the `Consumer` completes, `Double.Builder#build()` is called immediately and its result is passed to `usagePrice(Double)`. The rate you are charged for each hour the domain that is using the offering is running.

The rate you are charged for each hour the domain that is using the offering is running.

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The rate you are charged for each hour the domain that is using the offering is running.

```java
public class UsagePrice {
    private double usagePrice;

    public double getUsagePrice() {
        return usagePrice;
    }

    public void setUsagePrice(double usagePrice) {
        this.usagePrice = usagePrice;
    }
}
```

The currency code for the reserved Elasticsearch instance offering.

```java
public class CurrencyCode {
    private String currencyCode;

    public String getCurrencyCode() {
        return currencyCode;
    }

    @_requiredArgsConstructor
    public void setCurrencyCode(String currencyCode) {
        this.currencyCode = currencyCode;
    }
}
```
The currency code for the reserved Elasticsearch instance offering.

@returns

The currency code for the reserved Elasticsearch instance offering.

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The currency code for the reserved Elasticsearch instance offering.
"variableDeclarationType" : "String",
"variableName" : "currencyCode",
"variableType" : "String",
"documentation" : 
"The currency code for the reserved Elasticsearch instance offering.
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}

"beanStyleGetterMethodName" : "getPaymentOptionAsString",
"beanStyleSetterMethodName" : "setPaymentOption",
"c2jName" : "PaymentOption",
"c2jShape" : "ReservedElasticsearchInstancePaymentOption",
"defaultConsumerFluentSetterDocumentation" : 
"Payment option for the reserved Elasticsearch instance offering
This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String.Builder#builder() }.
When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link
#paymentOptionAsString(String) }.
@return Returns a reference to this object so that method calls can be chained together.
@see #paymentOption(String)",
"deprecated" : false,
"documentation" : 
"Payment option for the reserved Elasticsearch instance offering",
"enumType" : "ReservedElasticsearchInstancePaymentOption",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "paymentOption",
"fluentEnumSetterMethodName" : "paymentOption",
"fluentGetterMethodName" : "paymentOptionAsString",
"fluentSetterDocumentation" : 
"Payment option for the reserved Elasticsearch instance offering
@param paymentOption Payment option for the reserved Elasticsearch instance offering
@see ReservedElasticsearchInstancePaymentOption
@return Returns a reference to this object so that method calls can be chained together.
@see ReservedElasticsearchInstancePaymentOption",
"fluentSetterMethodName" : "paymentOption",
"getterDocumentation" : 
"Payment option for the reserved Elasticsearch instance offering
If the service returns an enum value that is not available in the current SDK version, { @link paymentOption } will return
{ @link ReservedElasticsearchInstancePaymentOption#UNKNOWN_TO_SDK_VERSION }.
The raw value returned by the service is available from { @link #paymentOptionAsString }.

"getterModel" : {
"returnType" : "String",
"documentation" : null
}

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "PaymentOption",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "PaymentOption",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "PaymentOption",
"setterDocumentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>
@param
paymentOption Payment option for the reserved Elasticsearch instance offering
@see
ReservedElasticsearchInstancePaymentOption",
"setterMethodName" : "setPaymentOption",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getRecurringCharges",
"beanStyleSetterMethodName" : "setRecurringCharges",
"c2jName" : "RecurringCharges",
"c2jShape" : "RecurringChargeList",
"defaultConsumerFluentSetterDocumentation" : "<p>The charge to your account regardless of whether you are
creating any domains using the instance offering.

This is a convenience that creates an instance of the 
List\<RecurringCharge\> avoiding the need to create one manually via 
List\<RecurringCharge\="#builder() 

When the \{ @link Consumer \} completes, \{ @link 
List\<RecurringCharge\>\} is called immediately and its result is passed to \{ @link 
recurringCharges(List\<RecurringCharge\>)\}. 

@see \#recurringCharges(List\<RecurringCharge\>)

"deprecated" : false,
"documentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,

"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringCharges",
"fluentSetterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

@param recurringCharges The charge to your account regardless of
whether you are creating any domains using the instance offering.
@return Returns a reference to this object so that method calls can be
chained together.

"fluentSetterMethodName" : "recurringCharges",
"getterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

@throws UnsupportedOperation
Exception if attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

@param recurringCharges The charge to your account regardless of
whether you are creating any domains using the instance offering.

@see \#recurringCharges(List\<RecurringCharge\>)

"getterModel" : {
"returnType" : "java.util.List<RecurringCharge>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "RecurringCharges",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RecurringCharges",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "RecurringCharge",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the \[ @link RecurringCharge.Builder \] avoiding the need to create one manually via \[ @link RecurringCharge#builder() \].
When the \[ @link Consumer \] completes, \[ @link RecurringCharge.Builder#build() \] is called immediately and its result is passed to \[ @link #member(RecurringCharge) \].
@param member a consumer that will call methods on \[ @link RecurringCharge.Builder \]
@return Returns a reference to this object so that method calls can be chained together.
@see #member(RecurringCharge)",
  "deprecated" : false,
  "documentation" : "",
  "eventType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.
",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.
",
  "getterModel" : {
    "returnType" : "RecurringCharge",
    "documentation" : null
  }
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",}
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
}

"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : "",
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
}

"xmlNameSpaceUri" : null

"memberLocationName" : null,
"memberType" : "RecurringCharge",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "RecurringCharge",
"templateImplType" : "java.util.ArrayList<RecurringCharge>",
"templateType" : "java.util.List<RecurringCharge>"

"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "RecurringCharges"
"setterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.,
"setterMethodName" : "setRecurringCharges",
"setterModel" : {
   "variableDeclarationType" : "java.util.List<RecurringCharge>",
   "variableName" : "recurringCharges",
   "variableType" : "java.util.List<RecurringCharge>",
   "documentation" : null,
   "simpleType" : "List<RecurringCharge>",
   "variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "java.util.List<RecurringCharge>",
   "variableName" : "recurringCharges",
   "variableType" : "java.util.List<RecurringCharge>",
   "documentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
   "simpleType" : "List<RecurringCharge>",
   "variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
   "CurrencyCode" : {
      "beanStyleGetterMethodName" : "getCurrencyCode",
      "beanStyleSetterMethodName" : "setCurrencyCode",
      "c2jName" : "CurrencyCode",
      "c2jShape" : "String",
      "defaultConsumerFluentSetterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
   This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. 
When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link String.Builder#build()}. 
@see #currencyCode(String)
@param currencyCode a consumer that will call methods on { @link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #currencyCode(String)",
      "deprecated" : false,
      "documentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
   "enumType" : null,
   "eventHeader" : false,
   "eventPayload" : false,
   "fluentEnumGetterMethodName" : null,
   "fluentEnumSetterMethodName" : null,
   "fluentGetterMethodName" : "currencyCode",
   "fluentSetterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
   "@param currencyCode The currency code for the reserved Elasticsearch instance offering.
   @return Returns a reference to this object so that method calls can be chained together."."}
"fluentSetterMethodName": "currencyCode",
"getterDocumentation": "<p>The currency code for the reserved Elasticsearch instance offering.</p>@return The currency code for the reserved Elasticsearch instance offering.",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "CurrencyCode",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "CurrencyCode",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "CurrencyCode",
"setterDocumentation": "<p>The currency code for the reserved Elasticsearch instance offering.</p>@param currencyCode The currency code for the reserved Elasticsearch instance offering.",
"setterMethodName": "setCurrencyCode",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "currencyCode",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "currencyCode",
  "variableSetterType": "String"}
"variableType" : "String",
"documentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"Duration" : {
"beanStyleGetterMethodName" : "getDuration",
"beanStyleSetterMethodName" : "setDuration",
"c2jName" : "Duration",
"c2jShape" : "Integer",
"defaultConsumerFluentSetterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>This is a convenience that creates an instance of the {<link Integer.Builder> avoiding the need to create one manually via {<link Integer.Builder#builder()>}.<name>When the {<link Integer.Consumer> completes, {<link Integer.Builder#build()>} is called immediately and its result is passed to {<link Integer#duration(Integer)>}.<name>@param duration a consumer that will call methods on {<link Integer.Builder>}
@returns Returns a reference to this object so that method calls can be chained together.
@see #duration(Integer)
</p>"}
"deprecated" : false,
"documentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "duration",
"fluentSetterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p><name>@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance.<name>@returns Returns a reference to this object so that method calls can be chained together.
</name>@see #duration(Integer)
"}
"getterDocumentation" : "<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p><name>@returns The duration, in seconds, for which the offering will reserve the Elasticsearch instance.
</name>@see #duration(Integer)
"}
"getterModel" : {
"returnType" : "Integer",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallILocation" : "PAYLOAD",
"marshallLocationName" : "Duration",
"marshallLocationClass" : "com.amazonaws.internal.SdkInternalList",
"name" : "Duration",
"ownerWrapperClass" : "com.amazonaws.RequestWrapperFlowTemplate"
}
The duration, in seconds, for which the offering will reserve the Elasticsearch instance.

```java
@Param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance.
```

The Elasticsearch instance type offered by the reserved instance offering.

```java
@DefaultConsumerFluentSetterDocumentation The Elasticsearch instance type offered by the reserved instance offering.
```

This is a convenience that creates an instance of the `String` class avoiding the need to create one manually via `String#builder()`. When the `Consumer` completes, the `String#build()` method is called immediately and its result is passed to...
@param elasticsearchInstanceType a consumer that will call methods on { @link String.Builder}.
@return Returns a reference to this object so that method calls can be chained together.

@see #elasticsearchInstanceType(String)

@deprecated
@see #elasticsearchInstanceType

@ documentation: "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>",

@enumType: "ESPartitionInstanceType",

@eventHeader: false,
@eventPayload: false,
@fluentEnumGetterMethodName: "elasticsearchInstanceType",
@fluentEnumSetterMethodName: "elasticsearchInstanceType",
@fluentGetterMethodName: "elasticsearchInstanceTypeAsString",
@fluentSetterDocumentation: "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>"

@return Returns a reference to this object so that method calls can be chained together.

@see ESPartitionInstanceType

@deprecated
@see ESPartitionInstanceType

@ documentation: "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>"

@returns: "String",
@null: null

@http: {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchInstanceType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchInstanceType",
  "uri" : false
}

@idempotencyToken: false,
@isBinary: false,
@jsonValue: false,
@list: false,
@listModel: null,
@map: null,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchInstanceType",
"setterDocumentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.
@see ESPartitionInstanceType",
"setterMethodName" : "setElasticsearchInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
@see ESPartitionInstanceType",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"FixedPrice" : {
  "beanStyleGetterMethodName" : "getFixedPrice",
  "beanStyleSetterMethodName" : "setFixedPrice",
  "c2jName" : "FixedPrice",
  "c2jShape" : "Double",
  "defaultConsumerFluentSetterDocumentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. </p>
@see #fixedPrice(Double)",
  "deprecated" : false,
  "documentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. </p>
@see #fixedPrice(Double)",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "fixedPrice",
  "fluentSetterDocumentation" : "<p>The upfront fixed charge you will pay to purchase the specific reserved
Elasticsearch instance offering. \n@param fixedPrice The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n@return Returns a reference to this object so that method calls can be chained together."

"getterDocumentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n\n@return The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.",

"getterModel" : {
 "returnType" : "Double",
 "documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "FixedPrice",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "FixedPrice",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "FixedPrice",
"setterDocumentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.\n\n@param fixedPrice The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.",

"setterMethodName" : "setFixedPrice",
"setterModel" : {
 "variableDeclarationType" : "Double",
 "variableName" : "fixedPrice",
 "variableType" : "Double",
 "documentation" : null,
 "simpleType" : "Double",
 "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "Double",
    "variableName" : "fixedPrice",
    "variableType" : "Double",
    "documentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.",
    "simpleType" : "Double",
    "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
"PaymentOption" : {
    "beanStyleGetterMethodName" : "getPaymentOptionAsString",
    "beanStyleSetterMethodName" : "setPaymentOption",
    "c2jName" : "PaymentOption",
    "c2jShape" : "ReservedElasticsearchInstancePaymentOption",
    "defaultConsumerFluentSetterDocumentation" : "Payment option for the reserved Elasticsearch instance offering.
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #paymentOptionAsString(String)}.

@see #paymentOptionAsString(String)",
    "deprecated" : false,
    "documentation" : "Payment option for the reserved Elasticsearch instance offering.
" enumType" : "ReservedElasticsearchInstancePaymentOption",
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "paymentOption",
    "fluentEnumSetterMethodName" : "paymentOption",
    "fluentGetterMethodName" : "paymentOptionAsString",
    "fluentSetterMethodName" : "paymentOption",
    "getterDocumentation" : "Payment option for the reserved Elasticsearch instance offering.
If the service returns an enum value that is not available in the current SDK version, { @link #paymentOption} will return { @link ReservedElasticsearchInstancePaymentOption#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link #paymentOptionAsString}."
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "simple" : true,
        "timestampFormat" : null,
        "variable" : {
            "variableDeclarationType" : "Double",
            "variableName" : "fixedPrice",
            "variableType" : "Double",
            "documentation" : "The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
"          },
          "xmlNameSpaceUri" : null
      }
}
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "PaymentOption",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "PaymentOption",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "PaymentOption",
"setterDocumentation": "<p>Payment option for the reserved Elasticsearch instance offering</p>
@param paymentOption Payment option for the reserved Elasticsearch instance offering
@see ReservedElasticsearchInstancePaymentOption",
"setterMethodName": "setPaymentOption",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "paymentOption",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "paymentOption",
  "variableType": "String",
  "documentation": "<p>Payment option for the reserved Elasticsearch instance offering</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
}
"RecurringCharges" : {
  "beanStyleGetterMethodName" : "getRecurringCharges",
  "beanStyleSetterMethodName" : "setRecurringCharges",
  "c2jName" : "RecurringCharges",
  "c2jShape" : "RecurringChargeList",
  "defaultConsumerFluentSetterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
This is a convenience that creates an instance of the [ @link List<RecurringCharge>.Builder ] avoiding the need to create one manually via [ @link List<RecurringCharge>#builder()].
When the [ @link Consumer] completes, [ @link List<RecurringCharge>.Builder#build()] is called immediately and its result is passed to [ @link #recurringCharges(List<RecurringCharge>).]
@param recurringCharges a consumer that will call methods on [ @link List<RecurringCharge>.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #recurringCharges(List<RecurringCharge>)",
  "deprecated" : false,
  "documentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "recurringCharges",
  "fluentSetterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.
@return Returns a reference to this object so that method calls can be chained together.
",
  "fluentSetterMethodName" : "recurringCharges",
  "getterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
@return The charge to your account regardless of whether you are creating any domains using the instance offering.",
  "getterModel" : {
    "returnType" : "java.util.List<RecurringCharge>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "RecurringCharges",
    "queryString" : false,
    "statusCode" : false,
"unmarshallLocationName" : "RecurringCharges",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "RecurringCharge",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [@link RecurringCharge.Builder] avoiding the need to create one manually via [@link RecurringCharge#builder()].\nWhen the [@link Consumer] completes, [@link RecurringCharge.Builder#build()] is called immediately and its result is passed to [@link #member(RecurringCharge)].\n@see #member(RecurringCharge)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@see #member(RecurringCharge)",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.\nThe value of the Member property for this object.",
    "getterModel" : {
      "returnType" : "RecurringCharge",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
    }
  }
}
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.
",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "RecurringCharge",
  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : "",
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"xmlnsSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "RecurringCharge",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "RecurringCharge",
"templateImplType" : "java.util.ArrayList<RecurringCharge>",
"templateType" : "java.util.ArrayList<RecurringCharge>".

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"templateType" : "java.util.List<RecurringCharge>" 
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "RecurringCharges",
"setterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.",
"setterMethodName" : "setRecurringCharges",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<RecurringCharge>",
  "variableName" : "recurringCharges",
  "variableType" : "java.util.List<RecurringCharge>",
  "documentation" : null,
  "simpleType" : "List<RecurringCharge>",
  "variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<RecurringCharge>",
  "variableName" : "recurringCharges",
  "variableType" : "java.util.List<RecurringCharge>",
  "documentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
"variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"xmlNameSpaceUri" : null
},
"ReservedElasticsearchInstanceOfferingId" : {
  "beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
  "beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
  "c2jName" : "ReservedElasticsearchInstanceOfferingId",
  "c2jShape" : "GUID",
  "defaultConsumerFluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #reservedElasticsearchInstanceOfferingId(String)}.
@param reservedElasticsearchInstanceOfferingId a consumer that will call methods on {@link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #reservedElasticsearchInstanceOfferingId(String)",
"deprecated" : false,
"documentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.\n@param reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier.\n@return Returns a reference to this object so that method calls can be chained together.\n</p>\n\n@param reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier.\n@return The Elasticsearch reserved instance offering identifier.\n",
"fluentSetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"getterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.\n@return The Elasticsearch reserved instance offering identifier.\n",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ReservedElasticsearchInstanceOfferingId",
"setterDocumentation" : "<p>The Elasticsearch reserved instance offering identifier.\n@param reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier.\n@return The Elasticsearch reserved instance offering identifier.\n",
"setterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "reservedElasticsearchInstanceOfferingId",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "reservedElasticsearchInstanceOfferingId",
  "variableType" : "String",
  "documentation" : "<p>The Elasticsearch reserved instance offering identifier.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UsagePrice" : {
  "beanStyleGetterMethodName" : "getUsagePrice",
  "beanStyleSetterMethodName" : "setUsagePrice",
  "c2jName" : "UsagePrice",
  "c2jShape" : "Double",
  "defaultConsumerFluentSetterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.\nThis is a convenience that creates an instance of the @{link Double.Builder} avoiding the need to create one manually via @{link Double.Builder#builder()}.\nWhen the @{link Consumer} completes, @{link Double.Builder#build()} is called immediately and its result is passed to @{link UsagePrice(Double)}.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #usagePrice(Double)",
  "deprecated" : false,
  "documentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "usagePrice",
  "fluentSetterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>\n@overwrite This is a convenience that creates an instance of the @{link Double.Builder} avoiding the need to create one manually via @{link Double.Builder#builder()}.\nWhen the @{link Consumer} completes, @{link Double.Builder#build()} is called immediately and its result is passed to @{link UsagePrice(Double)}.\n@return Returns a reference to this object so that method calls can be chained together.\n@see #usagePrice(Double)",
  "getterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>\n@return The rate you are charged for each hour the domain that is using the offering is running.\n@see #usagePrice(Double)",
  "getterModel" : {
    "returnType" : "Double",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UsagePrice",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UsagePrice",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "UsagePrice",
"setterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>
@param usagePrice The rate you are charged for each hour the domain that is using the offering is running."

"setterMethodName" : "setUsagePrice",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getReservedElasticsearchInstanceOfferingId",
"beanStyleSetterMethodName" : "setReservedElasticsearchInstanceOfferingId",
"c2jName" : "ReservedElasticsearchInstanceOfferingId",
"c2jShape" : "GUID",
"defaultConsumerFluentSetterDocumentation" : "\n\nThe Elasticsearch reserved instance offering identifier.
This is a convenience that creates an instance of the {\link String.Builder} avoiding the need to create one manually via {\link String#builder()}.\n\nWhen the {\link Consumer} completes, {\link String.Builder#build()} is called immediately and its result is passed to {\link #reservedElasticsearchInstanceOfferingId(String)} a consumer that will call methods on {\link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #reservedElasticsearchInstanceOfferingId(String)",
"deprecated" : false,
"documentation" : "The Elasticsearch reserved instance offering identifier.\n\nThis is a convenience that creates an instance of the {\link String.Builder} avoiding the need to create one manually via {\link String#builder()}.\n\nWhen the {\link Consumer} completes, {\link String.Builder#build()} is called immediately and its result is passed to {\link #reservedElasticsearchInstanceOfferingId(String)} a consumer that will call methods on {\link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #reservedElasticsearchInstanceOfferingId(String)",

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "reservedElasticsearchInstanceOfferingId",
"fluentSetterDocumentation" : "\n\nThe Elasticsearch reserved instance offering identifier.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #reservedElasticsearchInstanceOfferingId(String)",
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ReservedElasticsearchInstanceOfferingId",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "ReservedElasticsearchInstanceOfferingId",
"setterDocumentation": "<p>The Elasticsearch reserved instance offering identifier.</p>
@param reservedElasticsearchInstanceOfferingId The Elasticsearch reserved instance offering identifier."
,"setterMethodName": "setReservedElasticsearchInstanceOfferingId",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "reservedElasticsearchInstanceOfferingId",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
}
,"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "reservedElasticsearchInstanceOfferingId",
"variableType": "String",
"documentation": <p>The Elasticsearch reserved instance offering identifier.</p>
,"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
}], {
"beanStyleGetterMethodName": "getElasticsearchInstanceTypeAsString",
"beanStyleSetterMethodName": "setElasticsearchInstanceType",
"c2jName": "ElasticsearchInstanceType",
"c2jShape": "ESPartitionInstanceType",
"defaultConsumerFluentSetterDocumentation": "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()].

When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [ElasticsearchInstanceTypeAsString(String)].

@param elasticsearchInstanceType a consumer that will call methods on [String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #elasticsearchInstanceType(String)
"deprecuated": false,
"documentation": "<p>The Elasticsearch instance type offered by the reserved instance offering.</p>
,"enumType": "ESPartitionInstanceType",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "elasticsearchInstanceType",
"fluentEnumSetterMethodName": "elasticsearchInstanceType",
"fluentGetterMethodName": "elasticsearchInstanceTypeAsString"}
"fluentSetterDocumentation" : "The Elasticsearch instance type offered by the reserved instance offering.\n\n@see ESPartitionInstanceType\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see ESPartitionInstanceType",
"fluentSetterMethodName" : "elasticsearchInstanceType",
"getterDocumentation" : "The Elasticsearch instance type offered by the reserved instance offering.\n\nIf the service returns an enum value that is not available in the current SDK version, [ @link #elasticsearchInstanceType ] will return [ @link ESPartitionInstanceType#UNKNOWN_TO_SDK_VERSION ]. The raw value returned by the service is available from [ @link #elasticsearchInstanceTypeAsString ].\n\n@return The Elasticsearch instance type offered by the reserved instance offering.\n@see ESPartitionInstanceType",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchInstanceType",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchInstanceType",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "ElasticsearchInstanceType",
"setterDocumentation" : "The Elasticsearch instance type offered by the reserved instance offering.\n\n@see ESPartitionInstanceType\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see ESPartitionInstanceType",
"setterMethodName" : "setElasticsearchInstanceType",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "elasticsearchInstanceType",
  "variableType" : "String",
}
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
],
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "elasticsearchInstanceType",
  "variableType": "String",
  "documentation": "The Elasticsearch instance type offered by the reserved instance offering.",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlnsNameSpaceUri": null
},
{
  "beanStyleGetterMethodName": "getDuration",
  "beanStyleSetterMethodName": "setDuration",
  "c2jName": "Duration",
  "c2jShape": "Integer",
  "defaultConsumerFluentSetterDocumentation": "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.

This is a convenience that creates an instance of the Integer.Builder avoiding the need to create one manually via Integer#builder().

When the Consumer completes, Integer.Builder#build() is called immediately and its result is passed to #duration(Integer).

@see #duration(Integer)
",
  "deprecated": false,
  "documentation": "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.

@see #duration(Integer)
",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "duration",
  "fluentSetterDocumentation": "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.

@see #duration(Integer)
",
  "fluentSetterMethodName": "duration",
  "getterDocumentation": "The duration, in seconds, for which the offering will reserve the Elasticsearch instance.

@see #duration(Integer)
",
  "getterModel": {
    "returnType": "Integer",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "additionalType": null,
    "additionalUse": null
  }
}
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Duration",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Duration",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "Duration",
"setterDocumentation" : "\n<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>\n@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance."
, "setterMethodName" : "setDuration",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : "\n<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>\",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getFixedPrice","BeanStyleSetterMethodName" : "setFixedPrice",
"marshallerLocation" : "PAYLOAD",
"marshallerLocationName" : "Duration",
"name" : "Duration",
"simple" : true,
"setterDocumentation" : "\n<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>\n@param duration The duration, in seconds, for which the offering will reserve the Elasticsearch instance."
, "setterMethodName" : "setDuration",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "duration",
  "variableType" : "Integer",
  "documentation" : "\n<p>The duration, in seconds, for which the offering will reserve the Elasticsearch instance.</p>\",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}, {
"beanStyleGetterMethodName" : "getFixedPrice",
"beanStyleSetterMethodName" : "setFixedPrice",
"c2jName" : "FixedPrice",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. &lt;/p&gt;
This is a convenience that creates an instance of the [@link Double.Builder] avoiding the need to create one manually via [@link Double#builder()].
When the [@link Consumer] completes, [@link Double.Builder#build()] is called immediately and its result is passed to [@link #fixedPrice(Double)].
&lt;param&gt;fixedPrice a consumer that will call methods on [@link Double.Builder]&lt;/param&gt;
&lt;return&gt;Returns a reference to this object so that method calls can be chained together.&lt;/return&gt;&lt;@see #fixedPrice(Double)&gt;",
"deprecated" : false,
"documentation" : "&lt;p&gt;The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. &lt;/p&gt;",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "fixedPrice",
"fluentSetterDocumentation" : "&lt;p&gt;The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. &lt;/p&gt;
&lt;param&gt;fixedPrice The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.&lt;/param&gt;&lt;return&gt;Returns a reference to this object so that method calls can be chained together.&lt;/return&gt;",
"fluentSetterMethodName" : "fixedPrice",
"getterDocumentation" : "&lt;p&gt;The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering. &lt;/p&gt;
&lt;return&gt;The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.&lt;/return&gt;",
"getterModel" : {
"returnType" : "Double",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "FixedPrice",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "FixedPrice",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "DOUBLE",
"name": "FixedPrice",
"setterDocumentation": "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
@param fixedPrice The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
</p>",
"setterMethodName": "setFixedPrice",
"setterModel": {
  "variableDeclarationType": "Double",
  "variableName": "fixedPrice",
  "variableType": "Double",
  "documentation": null,
  "simpleType": "Double",
  "variableSetterType": "Double"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Double",
  "variableName": "fixedPrice",
  "variableType": "Double",
  "documentation": "<p>The upfront fixed charge you will pay to purchase the specific reserved Elasticsearch instance offering.
</p>",
  "simpleType": "Double",
  "variableSetterType": "Double"
},
"xmlNameSpaceUri": null
},
{ "beanStyleGetterMethodName": "getUsagePrice",
  "beanStyleSetterMethodName": "setUsagePrice",
  "c2jName": "UsagePrice",
  "c2jShape": "Double",
  "defaultConsumerFluentSetterDocumentation": "<p>The rate you are charged for each hour the domain that is using the offering is running.
</p>

This is a convenience that creates an instance of the {@link Double.Builder} avoiding the need to create one manually via {@link Double.Builder#builder()}. When the {@link Consumer} completes, [{@link Double.Builder#build()} is called immediately and its result is passed to [ @link #usagePrice(Double)] { @return Returns a reference to this object so that method calls can be chained together.}

@see #usagePrice(Double)",
  "deprecated": false,
  "documentation": "<p>The rate you are charged for each hour the domain that is using the offering is running.
</p>",
  "enumType": null,
  "eventHeader": false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "usagePrice",
"fluentSetterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>
@param usagePrice The rate you are charged for each hour the domain that is using the offering is running.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "usagePrice",
"getterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>
@return The rate you are charged for each hour the domain that is using the offering is running.",
"getterModel" : {
  "returnType" : "Double",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UsagePrice",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UsagePrice",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "UsagePrice",
"setterDocumentation" : "<p>The rate you are charged for each hour the domain that is using the offering is running.</p>
@param usagePrice The rate you are charged for each hour the domain that is using the offering is running.
@return The rate you are charged for each hour the domain that is using the offering is running.",
"setterMethodName" : "setUsagePrice",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "usagePrice",
  "variableType" : "Double",
  "documentation" : null,
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "Double",
"variableName" : "usagePrice",
"variableType" : "Double",
"documentation" : "The rate you are charged for each hour the domain that is using the offering is running.",
"simpleType" : "Double",
"variableSetterType" : "Double"
},
"xmlnsNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getCurrencyCode",
"beanStyleSetterMethodName" : "setCurrencyCode",
"c2jName" : "CurrencyCode",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder()]
When the [Consumer] completes, [String.Builder.build()] is called immediately and its result is passed to [CurrencyCode(String)]

@param currencyCode a consumer that will call methods on [String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #currencyCode(String)
"deprecated" : false,
"documentation" : "The currency code for the reserved Elasticsearch instance offering.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "currencyCode",
"fluentSetterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.

@param currencyCode The currency code for the reserved Elasticsearch instance offering.
@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "currencyCode",
"getterDocumentation" : "The currency code for the reserved Elasticsearch instance offering.

The currency code for the reserved Elasticsearch instance offering.
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CurrencyCode",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CurrencyCode",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CurrencyCode",
"setterDocumentation" : "<p>The currency code for the reserved Elasticsearch instance offering.</p>
@param

@currencyCode The currency code for the reserved Elasticsearch instance offering.",
"setterMethodName" : "setCurrencyCode",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "currencyCode",
  "variableType" : "String",
  "documentation" : "The currency code for the reserved Elasticsearch instance offering."",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null

},
"beanStyleGetterMethodName" : "getPaymentOptionAsString",
"beanStyleSetterMethodName" : "setPaymentOption",
"c2jName" : "PaymentOption",
"c2jShape" : "ReservedElasticsearchInstancePaymentOption"
"defaultConsumerFluentSetterDocumentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #paymentOptionAsString(String)}.@n@n@return Returns a reference to this object so that method calls can be chained together.@n@see #paymentOption(String)",

"deprecated" : false,
"documentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>",
"enumType" : "ReservedElasticsearchInstancePaymentOption",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "paymentOption",
"fluentEnumSetterMethodName" : "paymentOption",
"fluentGetterMethodName" : "paymentOptionAsString",
"fluentSetterDocumentation" : "<p>Payment option for the reserved Elasticsearch instance offering</p>

When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #paymentOptionAsString(String)}.@n@n@return Returns a reference to this object so that method calls can be chained together.@n@see ReservedElasticsearchInstancePaymentOption@n

If the service returns an enum value that is not available in the current SDK version, {@link #paymentOption} will return {@link ReservedElasticsearchInstancePaymentOption#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #paymentOptionAsString}.@n@n@RestController @nReturn @n

"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "PaymentOption",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "PaymentOption",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "PaymentOption",
"setterDocumentation" : "\<p\>Payment option for the reserved Elasticsearch instance offering</p>\n@param
paymentOption Payment option for the reserved Elasticsearch instance offering\n@see
ReservedElasticsearchInstancePaymentOption",
"setterMethodName" : "setPaymentOption",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
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  "variableName" : "paymentOption",
  "variableType" : "String",
  "documentation" : "\<p\>Payment option for the reserved Elasticsearch instance offering</p>\",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
  "beanStyleGetterMethodName" : "getRecurringCharges",
  "beanStyleSetterMethodName" : "setRecurringCharges",
  "c2jName" : "RecurringCharges",
  "c2jShape" : "RecurringChargeList",
  "defaultConsumerFluentSetterDocumentation" : "\<p\>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>\n\nThis is a convenience that creates an instance of the \{ @link
List<RecurringCharge>.Builder\} avoiding the need to create one manually via \{ @link
List<RecurringCharge>#builder()\}. \n\nWhen the \{ @link Consumer \} completes, \{ @link
List<RecurringCharge>.Builder#build() \} is called immediately and its result is passed to \{ @link
#recurringCharges(List<RecurringCharge>)\}. \n\n@param recurringCharges a consumer that will call methods on \{ @link List<RecurringCharge>.Builder\} \n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #recurringCharges(List<RecurringCharge>)",
  "deprecated" : false,
  "documentation" : "\<p\>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>\",
  "enumType" : null,
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  "eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "recurringCharges",
"fluentSetterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.
@\param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.
@\return Returns a reference to this object so that method calls can be chained together.
</p>",
"fluentSetterMethodName" : "recurringCharges",
"getterDocumentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return The charge to your account regardless of whether you are creating any domains using the instance offering.
",
"getterModel" : {
"returnType" : "java.util.List<RecurringCharge>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
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"marshallLocationName" : "RecurringCharges",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "RecurringCharges",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "RecurringCharge",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the RecurringCharge.Builder avoiding the need to create one manually via RecurringCharge.Builder().
When the Consumer completes, RecurringCharge.Builder#build() is called immediately and its result is passed to
"
#member(RecurringCharge)\n
@param member a consumer that will call methods on { @link RecurringCharge.Builder}\n
@return Returns a reference to this object so that method calls can be chained together.\n
@see #member(RecurringCharge)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together."
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object."
  "getterModel" : {
    "returnType" : "RecurringCharge",
    "documentation" : null
  },
  "http" : {
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    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "SDK_POJO",
  "name" : "Member",
  "setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "RecurringCharge",
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  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
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"simple" : false,
"timestampFormat" : null,
"variable" : {
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  "variableName" : "member",
  "variableType" : "RecurringCharge",
  "documentation" : null,
  "simpleType" : "RecurringCharge",
  "variableSetterType" : "RecurringCharge"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "RecurringCharge",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "RecurringCharge",
"templateImplType" : "java.util.ArrayList<RecurringCharge>",
"templateType" : "java.util.List<RecurringCharge>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "RecurringCharges",
"setterDocumentation" : "The charge to your account regardless of whether you are creating any domains using the instance offering.

@\n@param recurringCharges The charge to your account regardless of whether you are creating any domains using the instance offering.",
"setterMethodName" : "setRecurringCharges",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<RecurringCharge>",
  "variableName" : "recurringCharges",
  "variableType" : "java.util.List<RecurringCharge>",
  "documentation" : null,
  "simpleType" : "List<RecurringCharge>",
  "variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"simple" : false,
The charge to your account regardless of whether you are creating any domains using the instance offering.

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  "variableName" : "recurringCharges",
  "variableType" : "java.util.List<RecurringCharge>",
  "documentation" : "<p>The charge to your account regardless of whether you are creating any domains using the instance offering.</p>",
  "simpleType" : "List<RecurringCharge>",
  "variableSetterType" : "java.util.Collection<RecurringCharge>"
},
"xmlNameSpaceUri" : null
}

"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : null,
"shapeName" : "ReservedElasticsearchInstanceOffering",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
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"variable" : {
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  "variableName" : "reservedElasticsearchInstanceOffering",
  "variableType" : "ReservedElasticsearchInstanceOffering",
  "documentation" : null,
  "simpleType" : "ReservedElasticsearchInstanceOffering",
  "variableSetterType" : "ReservedElasticsearchInstanceOffering"
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"wrapper" : false

"ReservedElasticsearchInstancePaymentOption" : {
  "c2jName" : "ReservedElasticsearchInstancePaymentOption",
  "customization" : {
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    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "",
  "enums" : [ {
    "name" : "ALL_UPFRONT",
    "value" : "ALL_UPFRONT"
  }, {
    "name" : "PARTIAL_UPFRONT",
    "value" : "PARTIAL_UPFRONT"
  }]
}
"enums" : null,
"errorCode" : "ResourceAlreadyExistsException",
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 409,
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"requestSignerClassFqcn" : null,
"required" : null,
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"simpleMethod" : false,
"unmarshaller" : null,
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  "variableDeclarationType" : "ResourceAlreadyExistsException",
  "variableName" : "resourceAlreadyExistsException",
  "variableType" : "ResourceAlreadyExistsException",
  "documentation" : null,
  "simpleType" : "ResourceAlreadyExistsException",
  "variableSetterType" : "ResourceAlreadyExistsException"
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"wrapper" : false
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"ResourceNotFoundException" : {
  "c2jName" : "ResourceNotFoundException",
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  "deprecated" : false,
  "documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status code of 400."",
  "enums" : null,
  "errorCode" : "ResourceNotFoundException",
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  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : 409,
  "marshaller" : null,
  "members" : [ ],
  "membersAsMap" : { },
  "nonStreamingMembers" : [ ],
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  "required" : null,
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    "variableName" : "resourceNotFoundException",
    "variableType" : "ResourceNotFoundException",
    "documentation" : null,
    "simpleType" : "ResourceNotFoundException",
    "variableSetterType" : "ResourceNotFoundException"
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  "explicitEventPayloadMember" : null,
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  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : 409,
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    "variableName" : "resourceNotFoundException",
    "variableType" : "ResourceNotFoundException",
    "documentation" : null,
    "simpleType" : "ResourceNotFoundException",
    "variableSetterType" : "ResourceNotFoundException"
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  "wrapper" : false
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"ResourceNotFoundException" : {
  "c2jName" : "ResourceNotFoundException",
  "customization" : {
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    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
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  "documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status code of 400."",
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  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
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  "httpStatusCode" : 409,
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  "members" : [ ],
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  "required" : null,
  "serviceName" : "ResourceNotFoundException",
  "simpleMethod" : false,
  "unmarshaller" : null,
  "variable" : {
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    "variableName" : "resourceNotFoundException",
    "variableType" : "ResourceNotFoundException",
    "documentation" : null,
    "simpleType" : "ResourceNotFoundException",
    "variableSetterType" : "ResourceNotFoundException"
  },
  "wrapper" : false
},
"ResourceNotFoundException" : {
  "c2jName" : "ResourceNotFoundException",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "An exception for accessing or deleting a resource that does not exist. Gives http status code of 400."",
  "enums" : null,
  "errorCode" : "ResourceNotFoundException",
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : 409,
  "marshaller" : null,
  "members" : [ ],
  "membersAsMap" : { },
  "nonStreamingMembers" : [ ],
  "requestSignerAware" : false,
  "requestSignerClassFqcn" : null,
  "required" : null,
  "serviceName" : "ResourceNotFoundException",
  "simpleMethod" : false,
  "unmarshaller" : null,
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    "variableName" : "resourceNotFoundException",
    "variableType" : "ResourceNotFoundException",
    "documentation" : null,
    "simpleType" : "ResourceNotFoundException",
    "variableSetterType" : "ResourceNotFoundException"
  },
  "wrapper" : false
}
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"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 409,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ResourceNotFoundException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "ResourceNotFoundException",
  "variableName" : "resourceNotFoundException",
  "variableType" : "ResourceNotFoundException",
  "documentation" : null,
  "simpleType" : "ResourceNotFoundException",
  "variableSetterType" : "ResourceNotFoundException"
},
"wrapper" : false,
"ServiceSoftwareOptions" : {
  "c2jName" : "ServiceSoftwareOptions",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>The current options of an Elasticsearch domain service software options.</p>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [ ]
  "beanStyleGetterMethodName" : "getCurrentVersion".
"beanStyleSetterMethodName" : "setCurrentVersion",
"c2jName" : "CurrentVersion",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "The current service software version that is present on the domain. This is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via {link String.Builder#builder()}. When the {link Consumer} completes, {link String.Builder#build()} is called immediately and its result is passed to {link #currentVersion(String)}. Returns a reference to this object so that method calls can be chained together.. see #currentVersion(String)",
"deprecated" : false,
"documentation" : "The current service software version that is present on the domain."
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "currentVersion",
"fluentSetterMethodName" : "currentVersion",
"fluentSetterDocumentation" : "The current service software version that is present on the domain. Returns a reference to this object so that method calls can be chained together.",
"getterDocumentation" : "The current service software version that is present on the domain.
**return** The current service software version that is present on the domain.
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CurrentVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CurrentVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CurrentVersion",
"setterDocumentation" : "<p>The current service software version that is present on the domain.</p>
@param currentVersion The current service software version that is present on the domain.
",
"setterMethodName" : "setCurrentVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "currentVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "currentVersion",
  "variableType" : "String",
  "documentation" : "<p>The current service software version that is present on the domain.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getNewVersion",
  "beanStyleSetterMethodName" : "setNewVersion",
  "c2jName" : "NewVersion",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "<p>The new service software version if one is available.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#build()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #newVersion(String)}. Returns a reference to this object so that method calls can be chained together.
",
  "deprecated" : false,
  "documentation" : "<p>The new service software version if one is available.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "newVersion",
  "fluentSetterDocumentation" : "<p>The new service software version if one is available.</p>
@param newVersion The new service software version if one is available.
@return Returns a reference to this object so that method calls can be chained together.
"
"fluentSetterMethodName" : "newVersion",
"getterDocumentation" : "&lt;p&gt;The new service software version if one is available.&lt;/p&gt;
@return The new service software version if one is available.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "NewVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "NewVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "NewVersion",
"setterDocumentation" : "&lt;p&gt;The new service software version if one is available.&lt;/p&gt;
@param newVersion
The new service software version if one is available.",
"setterMethodName" : "setNewVersion",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "newVersion",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "newVersion"}
"variableType": "String",
"documentation": "<p>The new service software version if one is available.</p>",
"simpleType": "String",
"variableSetterType": "String"
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"xmlNameSpaceUri": null
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{"beanStyleGetterMethodName": "getUpdateAvailable",
"beanStyleSetterMethodName": "setUpdateAvailable",
"c2jName": "UpdateAvailable",
"c2jShape": "Boolean",
"defaultConsumerFluentSetterDocumentation": "<p>&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;

This is a convenience that creates an instance of the { link Boolean.Builder} avoiding the need to create one manually via { link Boolean.Builder#builder()}. When the { link Consumer} completes, { link Boolean.Builder#build()} is called immediately and its result is passed to { link #updateAvailable(Boolean)}. It returns a consumer that will call methods on { link Boolean.Builder}.

@see #updateAvailable(Boolean)",
"deprecated": false,
"documentation": "<p><code>True</code> if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. </p>

This is a convenience that creates an instance of the { link Boolean.Builder} avoiding the need to create one manually via { link Boolean.Builder#builder()}. When the { link Consumer} completes, { link Boolean.Builder#build()} is called immediately and its result is passed to { link #updateAvailable(Boolean)}. It returns a consumer that will call methods on { link Boolean.Builder}.

@see #updateAvailable(Boolean)",
"enumType": null,
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"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "updateAvailable",
"fluentSetterDocumentation": "<p>&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. </p>

This is a convenience that creates an instance of the { link Boolean.Builder} avoiding the need to create one manually via { link Boolean.Builder#builder()}. When the { link Consumer} completes, { link Boolean.Builder#build()} is called immediately and its result is passed to { link #updateAvailable(Boolean)}. It returns a consumer that will call methods on { link Boolean.Builder}.

@see #updateAvailable(Boolean)",
"getterDocumentation": "<p>&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. </p>

This is a convenience that creates an instance of the { link Boolean.Builder} avoiding the need to create one manually via { link Boolean.Builder#builder()}. When the { link Consumer} completes, { link Boolean.Builder#build()} is called immediately and its result is passed to { link #updateAvailable(Boolean)}. It returns a consumer that will call methods on { link Boolean.Builder}.

@see #updateAvailable(Boolean)",
"getterModel": {
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"documentation": null
},
"http": {
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"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateAvailable",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateAvailable",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "UpdateAvailable",
"setterDocumentation" : "<p><code>True</code> if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. </p>
@param updateAvailable True" if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. 

"setterMethodName" : "setUpdateAvailable",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "updateAvailable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "updateAvailable",
  "variableType" : "Boolean",
  "documentation" : "<p><code>True</code> if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. </p>
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one

"beanStyleGetterMethodName" : "getCancellable",
"beanStyleSetterMethodName" : "setCancellable",
"c2jName" : "Cancellable",
"c2jShape" : "Boolean",
"defaultConsumerFluentSetterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.

This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one
manually via {@link Boolean#builder}().

When the {@link Consumer} completes, {@link Boolean.Builder#build}() is called immediately and its result is passed to {@link cancellable(Boolean)}.

@throws IllegalArgumentException when cancellable a consumer that will call methods on {@link Boolean.Builder}

@return Returns a reference to this object so that method calls can be chained together.

@see #cancellable(Boolean)

_DEPRECATED_ : false,

documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>",

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cancellable",
"fluentSetterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version update. </p>n@param cancellable

True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>

"fluentSetterMethodName" : "cancellable",
"getterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>

"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Cancellable",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Cancellable",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallerType" : "BOOLEAN",
"name" : "Cancellable",
"setterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>
@param cancellable True</code> if you are able to cancel your service software version update. <code>False".

"setterMethodName" : "setCancellable",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "cancellable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "cancellable",
  "variableType" : "Boolean",
  "documentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpdateStatusAsString",
"beanStyleSetterMethodName" : "setUpdateStatus",
"c2jName" : "UpdateStatus",
"c2jShape" : "DeploymentStatus",
"defaultConsumerFluentSetterDocumentation" : "The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, [@link String.Builder#build()]) is called immediately and its result is passed to [@link #updateStatusAsString(String)].

@deprecated Returns a reference to this object so that method calls can be chained together.
@see #updateStatusAsString(String)
".
"documentation" : "The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
"enumType" : "DeploymentStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "updateStatus",
"fluentEnumSetterMethodName" : "updateStatus",
"fluentGetterMethodName" : "updateStatusAsString",
"fluentSetterDocumentation" : "<p>The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.<p>
@see DeploymentStatus
@return The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. Return a reference to this object so that method calls can be chained together.<p>
@return Returns a reference to this object so that method calls can be chained together.
@see DeploymentStatus",
"fluentSetterMethodName" : "updateStatus",

"getterDocumentation" : "<p>The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.<p>

If the service returns an enum value that is not available in the current SDK version, [@link #updateStatus] will return [@link DeploymentStatus#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [@link #updateStatusAsString].
</p>
@return The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. Return a reference to this object so that method calls can be chained together.<p>
@return Returns a reference to this object so that method calls can be chained together.
@see DeploymentStatus",

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpdateStatus",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpdateStatus",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpdateStatus",
"setterDocumentation" : "<p>The status of your service software update. This field can take the following

"setterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
The status of your service software update. This field can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE.

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to #description(String).

This field can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE.

The description of the UpdateStatus.

This parameter represents the status of your service software update. It can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE. The description provides a brief explanation of each status, available in the deployment status documentation. A consumer that will call methods on String.Builder is returned, allowing method calls to be chained together. The description of the UpdateStatus is stored in the description field and can be retrieved through the getDescription method.

The status of your service software update. This field can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE.

The description of the UpdateStatus.

This parameter represents the status of your service software update. It can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE. The description provides a brief explanation of each status, available in the deployment status documentation. A consumer that will call methods on String.Builder is returned, allowing method calls to be chained together. The description of the UpdateStatus is stored in the description field and can be retrieved through the getDescription method.

This parameter represents the status of your service software update. It can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE. The description provides a brief explanation of each status, available in the deployment status documentation. A consumer that will call methods on String.Builder is returned, allowing method calls to be chained together. The description of the UpdateStatus is stored in the description field and can be retrieved through the getDescription method.

This parameter represents the status of your service software update. It can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE. The description provides a brief explanation of each status, available in the deployment status documentation. A consumer that will call methods on String.Builder is returned, allowing method calls to be chained together. The description of the UpdateStatus is stored in the description field and can be retrieved through the getDescription method.
method calls can be chained together.

"fluentSetterMethodName" : "setDescription",
"getterDocumentation" : "<p>The description of the <code>UpdateStatus</code>.</p>
@return The description of the <code>UpdateStatus</code>.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : "null",
},
"http" : {
  "additionalMarshallingPath" : "null",
  "additionalUnmarshallingPath" : "null",
  "flattened" : "false",
  "greedy" : "false",
  "header" : "false",
  "isPayload" : "false",
  "isStreaming" : "false",
  "location" : "null",
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Description",
  "queryString" : "false",
  "statusCode" : "false",
  "unmarshallLocationName" : "Description",
  "uri" : "false",
},
"idempotencyToken" : "false",
"isBinary" : "false",
"jsonValue" : "false",
"list" : "false",
"listModel" : "null",
"map" : "false",
"mapModel" : "null",
"marshallingType" : "STRING",
"name" : "Description",
"setterDocumentation" : "<p>The description of the <code>UpdateStatus</code>.</p>
@param description The description of the <code>UpdateStatus</code>.",
"setterMethodId" : "setDescription",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "description",
  "variableType" : "String",
  "documentation" : "null",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : "true",
"timestampFormat" : "null",
"variable" : {
  "variableDeclarationType" : "String",
}
"variableName" : "description",
"variableType" : "String",
"documentation" : "The description of the <code>UpdateStatus</code>.",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
"beanStyleGetterMethodName" : "getAutomatedUpdateDate",
"beanStyleSetterMethodName" : "setAutomatedUpdateDate",
"c2jName" : "AutomatedUpdateDate",
"c2jShape" : "DeploymentCloseDateTimeStamp",
"defaultValueConsumerFluentSetterDocumentation" : "Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

This is a convenience that creates an instance of the {link Instant.Builder} avoiding the need to create one manually via {link Instant#builder()}. When the {link Consumer} completes, {link Instant.Builder#build()} is called immediately and its result is passed to {link automatedUpdateDate(Instant)}.

When the {link Consumer} completes, {link Instant.Builder#build()} is called immediately and its result is passed to {link automatedUpdateDate(Instant)}.

@see automatedUpdateDate(Instant)",
"deprecated" : false,
"documentation" : "Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

After this date, we automatically update your service software.

@enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "automatedUpdateDate",
"fluentSetterDocumentation" : "Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

After this date, we automatically update your service software.

@fluentSetterMethodName" : "automatedUpdateDate",
"getterDocumentation" : "Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.

After this date, we automatically update your service software.

@return Returns a reference to this object so that method calls can be chained together.

@see automatedUpdateDate(Instant)",
"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AutomatedUpdateDate",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AutomatedUpdateDate",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "AutomatedUpdateDate",
"setterDocumentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>
@param automatedUpdateDate Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software. ",
"setterMethodName" : "setAutomatedUpdateDate",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "automatedUpdateDate",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "automatedUpdateDate",
  "variableType" : "java.time.Instant",
  "documentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>
"simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"variableSpaceUri" : null
}]}
"membersAsMap" : {
  "AutomatedUpdateDate" : {
    "beanStyleGetterMethodName" : "getAutomatedUpdateDate",
    "setterMethodName" : "setAutomatedUpdateDate",
    "setterModel" : {
      "variableDeclarationType" : "java.time.Instant",
      "variableName" : "automatedUpdateDate",
      "variableType" : "java.time.Instant",
      "documentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.
"simpleType" : "Instant",
      "variableSetterType" : "java.time.Instant"
    },
    "variableSpaceUri" : null
  }
}
"beanStyleSetterMethodName" : "setAutomatedUpdateDate",
"c2jName" : "AutomatedUpdateDate",
"c2jShape" : "DeploymentCloseDateTimeStamp",
"defaultConsumerFluentSetterDocumentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>
This is a convenience that creates an instance of the [@link Instant.Builder] avoiding the need to create one manually via [@link Instant#builder()].

When the [@link Consumer] completes, [@link Instant.Builder#build()] is called immediately and its result is passed to [@link #automatedUpdateDate(Instant)].

@returns Returns a reference to this object so that method calls can be chained together.
@see #automatedUpdateDate(Instant)

"deprecated" : false,
"documentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "automatedUpdateDate",
"fluentSetterDocumentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "automatedUpdateDate",
"getterDocumentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>

@returns Returns a reference to this object so that method calls can be chained together.

"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AutomatedUpdateDate",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocation" : false,
  "unmarshallLocationName" : "AutomatedUpdateDate"};
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "AutomatedUpdateDate",
"setterDocumentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>
@param automatedUpdateDate Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.",
"setterMethodName" : "setAutomatedUpdateDate",
"setterModel" : {
 "variableDeclarationType" : "java.time.Instant",
 "variableName" : "automatedUpdateDate",
 "variableType" : "java.time.Instant",
 "documentation" : null,
 "simpleType" : "Instant",
 "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "java.time.Instant",
 "variableName" : "automatedUpdateDate",
 "variableType" : "java.time.Instant",
 "documentation" : "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.</p>",
 "simpleType" : "Instant",
 "variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null
},
"Cancellable" : {
 "beanStyleGetterMethodName" : "getCancellable",
 "beanStyleSetterMethodName" : "setCancellable",
 "c2jName" : "Cancellable",
 "c2jShape" : "Boolean",
 "defaultValueConsumerFluentSetterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.

This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean.Builder#builder()}. When the { @link Consumer} completes, { @link Boolean.Builder#build()}) is called immediately and its result is passed to { @link #cancellable(Boolean)}. @param cancellable a consumer that will call methods on { @link Boolean.Builder} @return Returns a reference to this
object so that method calls can be chained together.

@see #cancellable(Boolean)

documentation": "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cancellable",
"fluentSetterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>

@param cancellable True<code> False</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>

return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "cancellable",
"getterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>

@return Returns a reference to this object so that method calls can be chained together.

"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Cancellable",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Cancellable",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "Cancellable",
"setterDocumentation" : "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>

return Returns a reference to this object so that method calls can be chained together.

"setterModel" : {
"returnType" : "Boolean",
"documentation" : null
}

"uri" : null,
update. <code>False</code> if you are not able to cancel your service software version. 
@param cancellable True<code>False</code> if you are able to cancel your service software version update. <code>False</code>,

"setterMethod Name" : "setCancellable",
"setterModel" : {
  "variableDeclaration Type" : "Boolean",
  "variableName" : "cancellable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclaration Type" : "Boolean",
  "variableName" : "cancellable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null,
"CurrentVersion" : {
  "beanStyleGetterMethodName" : "getCurrentVersion",
  "beanStyleSetterMethodName" : "setCurrentVersion",
  "c2jName" : "CurrentVersion",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "<p>The current service software version that is present on the domain.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #currentVersion(String)}. @param currentVersion a consumer that will call methods on {@link String.Builder}@return Returns a reference to this object so that method calls can be chained together.\
  "deprecated" : false,
  "documentation" : "<p>The current service software version that is present on the domain.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "currentVersion",
  "fluentSetterDocumentation" : "<p>The current service software version that is present on the domain.</p>
@returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "currentVersion",
  "getterDocumentation" : "<p>The current service software version that is present on the
domain.</p>
@return The current service software version that is present on the domain.
"getterModel" : {
   "returnType" : "String",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "CurrentVersion",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "CurrentVersion",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "CurrentVersion",
"setterDocumentation" : "<p>The current service software version that is present on the
domain.</p>
@param currentVersion The current service software version that is present on the domain.
"setterMethodName" : "setCurrentVersion",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "currentVersion",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "currentVersion",
   "variableType" : "String",
   "documentation" : "<p>The current service software version that is present on the domain.</p>"
"simpleType" : "String",
"variableSetterType" : "String",
"xmlNameSpaceUri" : null,
"Description" : {
    "beanStyleGetterMethodName" : "getDescription",
    "beanStyleSetterMethodName" : "setDescription",
    "c2jName" : "Description",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "The description of the UpdateStatus.
This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to #description(String).
@param description a consumer that will call methods on String.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #description(String)",
    "deprecated" : false,
    "documentation" : "The description of the UpdateStatus.
    Returns a reference to this object so that method calls can be chained together.
    @see #description(String)",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "description",
    "fluentSetterDocumentation" : "The description of the UpdateStatus.
    @param description The description of the UpdateStatus.
    @return Returns a reference to this object so that method calls can be chained together.
    
    @see #description(String)",
    "getterDocumentation" : "The description of the UpdateStatus.
    @return The description of the UpdateStatus.
    
    @see #description(String)",
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "Description",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "Description",
    }
}
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Description",
"setterDocumentation" : "<p>The description of the <code>UpdateStatus</code>.</p>
@param description

The description of the <code>UpdateStatus</code>.
",
"setterMethodName" : "setDescription",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "description",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "description",
  "variableType" : "String",
  "documentation" : "<p>The description of the <code>UpdateStatus</code>.</p>
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "description",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "xmlNameSpaceUri" : null
},
"NewVersion" : {
  "beanStyleGetterMethodName" : "getNewVersion",
  "beanStyleSetterMethodName" : "setNewVersion",
  "c2jName" : "NewVersion",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "<p>The new service software version if one is available.</p>
  "@param newVersion a consumer that will call methods on 
  "@return Returns a reference to this object so that method calls can be chained together.</p>
  "deprecated" : false,
  "documentation" : "<p>The new service software version if one is available.</p>
  "enumType" : null,
"eventId": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "newVersion",
"fluentSetterDocumentation": "The new service software version if one is available.\n@returns\nThe new service software version if one is available.\n@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "newVersion",
"getterDocumentation": "The new service software version if one is available.\n@returns\nThe new service software version if one is available.\n@returns Returns a reference to this object so that method calls can be chained together.",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "NewVersion",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "NewVersion",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NewVersion",
"setterDocumentation": "The new service software version if one is available.\n@returns\nThe new service software version if one is available.\n@returns Returns a reference to this object so that method calls can be chained together.",
"setterMethodName": "setNewVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "newVersion",
  "variableType": "String",
  "documentation": null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "newVersion",
  "variableType" : "String",
  "documentation" : "<p>The new service software version if one is available.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpdateAvailable" : {
  "beanStyleGetterMethodName" : "getUpdateAvailable",
  "beanStyleSetterMethodName" : "setUpdateAvailable",
  "c2jName" : "UpdateAvailable",
  "c2jShape" : "Boolean",
  "defaultConsumerFluentSetterDocumentation" : "<p>&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. &lt;/p&gt;
This is a convenience that creates an instance of the {@link Boolean.Builder} avoiding the need to create one manually via
{@link Boolean.Builder#builder()}. When the {@link Consumer} completes, {@link Boolean.Builder#build()} is called immediately and its result is passed to {@link #updateAvailable(Boolean)}. 
@see #updateAvailable(Boolean)
@deprecated : false,
"documentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. 
&lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version.&lt;/p&gt;",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "updateAvailable",
"fluentSetterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. &lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. 
&lt;/p&gt;\n\nReturns a reference to this object so that method calls can be chained together.
@see #updateAvailable(Boolean)
@deprecated : false,
"getterDocumentation" : "&lt;p&gt;&lt;code&gt;True&lt;/code&gt; if you are able to update you service software version. 
&lt;code&gt;False&lt;/code&gt; if you are not able to update your service software version. 
&lt;/p&gt;\n\nReturns a reference to this object so that method calls can be chained together.
@see #updateAvailable(Boolean)
@deprecated : false,
"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
}
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpdateAvailable",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpdateAvailable",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "UpdateAvailable",
"setterDocumentation" : "<p><code>True</code> if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. </p>
@param updateAvailable True</code> if you are able to update you service software version. <code>False",
"setterMethodName" : "setUpdateAvailable",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "updateAvailable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "updateAvailable",
  "variableType" : "Boolean",
  "documentation" : "<p><code>True</code> if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. </p>
@param updateAvailable True</code> if you are able to update you service software version. <code>False",
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"}
"xmlNameSpaceUri" : null
},
"UpdateStatus" : {
  "beanStyleGetterMethodName" : "getUpdateStatusAsString",
  "beanStyleSetterMethodName" : "setUpdateStatus",
  "c2jName" : "UpdateStatus",
  "c2jShape" : "DeploymentStatus",
  "defaultConsumerFluentSetterDocumentation" : "The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. This is a convenience that creates an instance of the <code>String.Builder</code> avoiding the need to create one manually via <code>String.builder()</code>. When the <code>Consumer</code> completes, <code>String.Builder#build()</code> is called immediately and its result is passed to <code>DeploymentStatusAsString(String)</code>. param updateStatus The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateStatus",
"uri" : false 
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpdateStatus",
"setterDocumentation" : "The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.\n\n@see DeploymentStatus",
"setterMethodName" : "setUpdateStatus",
"setterModel" : { 
  "variableDeclarationType" : "String",
  "variableName" : "updateStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : { 
  "variableDeclarationType" : "String",
  "variableName" : "updateStatus",
  "variableType" : "String",
  "documentation" : "The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.\n\n@see DeploymentStatus".
}
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}
],
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getCurrentVersion",
  "beanStyleSetterMethodName" : "setCurrentVersion",
  "c2jName" : "CurrentVersion",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "<p>The current service software version that is present on the domain.</p>This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #currentVersion(String)}.
@param currentVersion a consumer that will call methods on { @link String.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #currentVersion(String)",
  "deprecated" : false,
  "documentation" : "<p>The current service software version that is present on the domain.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "currentVersion",
  "fluentSetterDocumentation" : "<p>The current service software version that is present on the domain.</p>
@param currentVersion The current service software version that is present on the domain.
@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "currentVersion",
  "getterDocumentation" : "<p>The current service software version that is present on the domain.</p>"

The current service software version that is present on the domain.
",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "CurrentVersion",
    "queryString" : false,
    "statusCode" : false,
    "statusType" : false,
  }
}
"unmarshallLocationName": "CurrentVersion",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "CurrentVersion",
"setterDocumentation": "<p>The current service software version that is present on the domain.</p>
@param currentVersion The current service software version that is present on the domain."

"setterMethodName": "setCurrentVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "currentVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "currentVersion",
  "variableType": "String",
  "documentation": "<p>The current service software version that is present on the domain.</p>",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
  "beanStyleGetterMethodName": "getNewVersion",
  "beanStyleSetterMethodName": "setNewVersion",
  "c2jName": "NewVersion",
  "c2jShape": "String",
  "defaultConsumerFluentSetterDocumentation": "<p>The new service software version if one is available.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #newVersion(String)}. This is a consumer that will call methods on {@link String.Builder}.

@see #newVersion(String)"
,  "deprecated": false,
  "documentation": "<p>The new service software version if one is available.</p>",
  "enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "newVersion",
"fluentSetterDocumentation": "<p>The new service software version if one is available.</p>
@param newVersion The new service software version if one is available.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "newVersion",
"getterDocumentation": "<p>The new service software version if one is available.</p>
@return The new service software version if one is available.",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "NewVersion",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "NewVersion",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "NewVersion",
"setterDocumentation": "<p>The new service software version if one is available.</p>
@param newVersion The new service software version if one is available.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName": "setNewVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "newVersion",
  "variableType": "String",
  "documentation": null,
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpdateAvailable",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpdateAvailable",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "UpdateAvailable",
"setterDocumentation" : "<p><code>True</code> if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. 

@param updateAvailable True</code> if you are able to update you service software version. <code>False</code> if you are not able to update your service software version. <code>False</code>,
"setterMethodName" : "setUpdateAvailable",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "updateAvailable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "updateAvailable",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlnsNameSpaceUri" : null
"defaultConsumerFluentSetterDocumentation" : ": <p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version.
</p>
This is a convenience that creates an instance of the{@link Boolean.Builder} avoiding the need to create one manually via{@link Boolean.Builder#builder()}. When the {@link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link #cancellable(Boolean)}. @param cancellable a consumer that will call methods on { @link Boolean.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #cancellable(Boolean)",
"deprecated" : false,
"documentation" : ": <p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cancellable",
"fluentSetterDocumentation" : ": <p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>
@param cancellable True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Cancellable",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Cancellable",
"uri" : false
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "Cancellable",
"setterDocumentation": "<p><code>True</code> if you are able to cancel your service software version update. <code>False</code> if you are not able to cancel your service software version. </p>
@param cancellable True if you are able to cancel your service software version update. <code>False</code>

"setterMethodName": "setCancellable",
"setterModel": {
  "variableDeclarationType": "Boolean",
  "variableName": "cancellable",
  "variableType": "Boolean",
  "documentation": null,
  "simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Boolean",
  "variableName": "cancellable",
  "variableType": "Boolean",
  "documentation": "<p><code>True</code> if you are able to cancel your service software version update.
<code>False</code> if you are not able to cancel your service software version. </p>
"simpleType": "Boolean",
  "variableSetterType": "Boolean"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getUpdateStatusAsString",
"beanStyleSetterMethodName": "setUpdateStatus",
"c2jName": "UpdateStatus",
"c2jShape": "DeploymentStatus",
"defaultConsumerFluentSetterDocumentation": "The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #updateStatusAsString(String)}.
@return Returns a reference to this object so that method calls can be chained together.

@see #updateStatus(String)
"deprecated": false,
"documentation": "The status of your service software update. This field can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE.

"enumType": "DeploymentStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "updateStatus",
"fluentEnumSetterMethodName": "updateStatus",
"fluentGetterMethodName": "updateStatusAsString",
"fluentSetterDocumentation": "The status of your service software update. This field can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE.

If the service returns an enum value that is not available in the current SDK version, @link DeploymentStatus#UNKNOWN_TO_SDK_VERSION will return. The raw value returned by the service is available from @link #updateStatusAsString.

@return Returns a reference to this object so that method calls can be chained together.

@see DeploymentStatus",
"getterDocumentation": "The status of your service software update. This field can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE.

If the service returns an enum value that is not available in the current SDK version, @link DeploymentStatus#UNKNOWN_TO_SDK_VERSION will return. The raw value returned by the service is available from @link #updateStatusAsString.

@return The status of your service software update. This field can take the following values: ELIGIBLE, PENDING_UPDATE, IN_PROGRESS, COMPLETED, and NOT_ELIGIBLE.

@see DeploymentStatus",
"getterModel": {
  "returnType": "String",
  "documentation": null
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"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "UpdateStatus",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "UpdateStatus",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "UpdateStatus",
"setterDocumentation": "<p>The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. </p>
@param updateStatus The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>.
@see DeploymentStatus",
"setterMethodName": "setUpdateStatus",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "updateStatus",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "updateStatus",
  "variableType": "String",
  "documentation": "<p>The status of your service software update. This field can take the following values: <code>ELIGIBLE</code>, <code>PENDING_UPDATE</code>, <code>IN_PROGRESS</code>, <code>COMPLETED</code>, and <code>NOT_ELIGIBLE</code>. </p>"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getDescription",
"beanStyleSetterMethodName": "setDescription",
"c2jName": "Description",
"c2jShape": "String",
"defaultConsumerFluentSetterDocumentation": "<p>The description of the <code>UpdateStatus</code>.</p>\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {
@link #description(String)}.\n
@param description a consumer that will call methods on {
@link String.Builder}\n
@return Returns a reference to this object so that method calls can be chained together.\n
@see #description(String)"
,"deprecated": false,
"documentation": "<p>The description of the <code>UpdateStatus</code>.</p>",

---

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"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "description",
"fluentSetterMethodName": "description",
"getterDocumentation": "<p>The description of the <code>UpdateStatus</code>.</p>
@param description The description of the <code>UpdateStatus</code>.
@return Returns a reference to this object so that method calls can be chained together."
"getterMethodName": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "Description",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "Description",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Description",
"setterDocumentation": "<p>The description of the <code>UpdateStatus</code>.</p>
@param description The description of the <code>UpdateStatus</code>.
@return The description of the <code>UpdateStatus</code>.”
"setterMethodName": "setDescription",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "description",
  "variableType": "String"}
This is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via
{@link Instant#builder()}. When the {@link Consumer} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to
{@link #automatedUpdateDate(Instant)}. 

@see #automatedUpdateDate(Instant)

\[ \text{Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.} \]
"documentation": null,
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "AutomatedUpdateDate",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "AutomatedUpdateDate",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "INSTANT",
"name": "AutomatedUpdateDate",
"setterDocumentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.\</p>\n@\param
automatedUpdateDate Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.\",
"setterMethodName": "setAutomatedUpdateDate",
"setterModel": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "automatedUpdateDate",
  "variableType": "java.time.Instant",
  "documentation": null,
  "simpleType": "Instant",
  "variableSetterType": "java.time.Instant"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "automatedUpdateDate",
  "variableType": "java.time.Instant",
  "documentation": "<p>Timestamp, in Epoch time, until which you can manually request a service software update. After this date, we automatically update your service software.\</p>"
"beanStyleGetterMethodName" : "getAutomatedSnapshotStartHour",
"beanStyleSetterMethodName" : "setAutomatedSnapshotStartHour",
"c2jName" : "AutomatedSnapshotStartHour",
"c2jShape" : "IntegerClass",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
This is a convenience that creates an instance of the [ @link Integer.Builder] avoiding the need to create one manually via [ @link Integer.Builder#builder()].
When the [ @link Consumer] completes, [ @link Integer.Builder#build()] is called immediately and its result is passed to [ @link #automatedSnapshotStartHour(Integer)].

@return Returns a reference to this object so that method calls can be chained together.
@see #automatedSnapshotStartHour(Integer)",
"deprecated" : false,
"documentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "automatedSnapshotStartHour",
"fluentSetterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
@param automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "automatedSnapshotStartHour",
"getterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
@return Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.
",
"getterModel" : {
   "returnType" : "Integer",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "AutomatedSnapshotStartHour",
   "queryString" : false,
   "statusCode" : false,
"unmarshallLocationName" : "AutomatedSnapshotStartHour",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "AutomatedSnapshotStartHour",
"setterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated
snapshot of the specified Elasticsearch domain. Default value is &lt;code&gt;0&lt;/code&gt; hours.&lt;/p&gt;&lt;param
automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot
of the specified Elasticsearch domain. Default value is &lt;code&gt;0&lt;/code&gt; hours.",
"setterMethodName" : "setAutomatedSnapshotStartHour",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "automatedSnapshotStartHour",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "automatedSnapshotStartHour",
  "variableType" : "Integer",
  "documentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot
of the specified Elasticsearch domain. Default value is &lt;code&gt;0&lt;/code&gt; hours.&lt;/p&gt;",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
}]
],
"membersAsMap" : {
  "AutomatedSnapshotStartHour" : {
    "beanStyleGetterMethodName" : "getAutomatedSnapshotStartHour",
    "beanStyleSetterMethodName" : "setAutomatedSnapshotStartHour",
    "c2jName" : "AutomatedSnapshotStartHour",
    "c2jShape" : "IntegerClass",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the time, in UTC format, when the service
takes a daily automated snapshot of the specified Elasticsearch domain. Default value is &lt;code&gt;0&lt;/code&gt;
hours.&lt;/p&gt;&lt;\nThis is a convenience that creates an instance of the { @link Integer.Builder} avoiding the need to
create one manually via { @link Integer#builder()}.\n\nWhen the { @link Consumer} completes, { @link
Integer.Builder#build()} is called immediately and its result is passed to { @link 
automatedSnapshotStartHour(Integer) }. Returns a reference to this object so that method calls can be chained together.

@deprecated
@see #automatedSnapshotStartHour(Integer)

"documentation" : "\n<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>

"enumType" : "null",
"eventHeader" : "false",
"eventPayload" : "false",
"fluentEnumGetterMethodName" : "null",
"fluentEnumSetterMethodName" : "null",
"fluentGetterMethodName" : "automatedSnapshotStartHour",
"fluentSetterDocumentation" : "\n\n<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>

"http" : {\

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : "false",
"greedy" : "false",
"header" : "false",
"isPayload" : "false",
"isStreaming" : "false",
"location" : "null",
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AutomatedSnapshotStartHour",
"queryString" : "false",
"statusCode" : "false",
"unmarshallLocationName" : "AutomatedSnapshotStartHour",
"uri" : "false"
}
"idempotencyToken" : "false",
"isBinary" : "false",
"jsonValue" : "false",
"list" : "false",
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "AutomatedSnapshotStartHour",
"setterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
@param automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.",
"setterMethodName" : "setAutomatedSnapshotStartHour",
"setterModel" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "automatedSnapshotStartHour",
  "variableType" : "Integer",
  "documentation" : null,
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Integer",
  "variableName" : "automatedSnapshotStartHour",
  "variableType" : "Integer",
  "documentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>",
  "simpleType" : "Integer",
  "variableSetterType" : "Integer"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getAutomatedSnapshotStartHour",
  "beanStyleSetterMethodName" : "setAutomatedSnapshotStartHour",
  "c2jName" : "AutomatedSnapshotStartHour",
  "c2jShape" : "IntegerClass",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>
This is a convenience that creates an instance of the [@link Integer.Builder] avoiding the need to create one manually via [@link Integer.Builder#builder()].
When the [@link Integer.Consumer] completes, [@link Integer.Builder#build()] is called immediately and its result is passed to [@link automatedSnapshotStartHour(Integer)] a consumer that will call methods on [@link Integer.Builder] returns a reference to this object so that method calls can be chained together.
@see automatedSnapshotStartHour(Integer)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>",
  "enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "automatedSnapshotStartHour",
"fluentSetterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p><p>\n\n@<code>param</code> automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p><p>\n\n@<code>return</code> Returns a reference to this object so that method calls can be chained together.
</p>
"getterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p><p>\n\n@return Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.
</p>
"getterModel" : {
  "returnType" : "Integer",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AutomatedSnapshotStartHour",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AutomatedSnapshotStartHour",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INTEGER",
"name" : "AutomatedSnapshotStartHour",
"setterDocumentation" : "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p><p>\n\n@<code>param</code> automatedSnapshotStartHour Specifies the time, in UTC format, when the service takes a daily automated snapshot of the specified Elasticsearch domain. Default value is <code>0</code> hours.
</p>"


"setterMethodName": "setAutomatedSnapshotStartHour",
"setterModel": {
  "variableDeclarationType": "Integer",
  "variableName": "automatedSnapshotStartHour",
  "variableType": "Integer",
  "documentation": null,
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "Integer",
  "variableName": "automatedSnapshotStartHour",
  "variableType": "Integer",
  "documentation": "<p>Specifies the time, in UTC format, when the service takes a daily automated snapshot
of the specified Elasticsearch domain. Default value is <code>0</code> hours.</p>",
  "simpleType": "Integer",
  "variableSetterType": "Integer"
},
"xmlNameSpaceUri": null
}],
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "SnapshotOptions",
"simpleMethod": false,
"unmarshaller": {
  "flattened": false,
  "resultWrapper": null
},
"variable": {
  "variableDeclarationType": "SnapshotOptions",
  "variableName": "snapshotOptions",
  "variableType": "SnapshotOptions",
  "documentation": null,
  "simpleType": "SnapshotOptions",
  "variableSetterType": "SnapshotOptions"
},
"wrapper": false
},
"SnapshotOptionsStatus": {
  "c2jName": "SnapshotOptionsStatus",
  "customization": {
    "artificialResultWrapper": null,
    "skipGeneratingMarshaller": false,
    "skipGeneratingModelClass": false,
    "skipGeneratingUnmarshaller": false,
"staxTargetDepthOffset" : 0,
"deprecated" : false,
"documentation" : "<p>Status of a daily automated snapshot.</p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [
  {
    "beanStyleGetterMethodName" : "getOptions",
    "beanStyleSetterMethodName" : "setOptions",
    "c2jName" : "Options",
    "c2jShape" : "SnapshotOptions",
    "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the daily snapshot options specified for the
Elasticsearch domain.</p>

This is a convenience that creates an instance of the { @link SnapshotOptions.Builder} avoiding the need to create one manually via { @link SnapshotOptions#builder()}.

When the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link SnapshotOptions.Builder#build()}.

@returns a consumer that will call methods on { @link SnapshotOptions.Builder}.

@returns Returns a reference to this object so that method calls can be chained together.

@see #options(SnapshotOptions)
",
"deprecated" : false,
"documentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>

@returns Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>

@returns Returns a reference to this object so that method calls can be chained together.
",
"getterModel" : {
  "returnType" : "SnapshotOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>\n@param options Specifies the daily snapshot options specified for the Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "options",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "options",
  "variableType" : "SnapshotOptions",
  "documentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlnsNameSpaceUri" : null
},
"c2jName" : "Status"
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus.Builder#build()}. When the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {#status(OptionStatus)}.

@see #status(OptionStatus)

@return Returns a reference to this object so that method calls can be chained together.

Specifies the status of a daily automated snapshot.

@return Specifies the status of a daily automated snapshot.

@see #status(OptionStatus)
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
"setterDocumentation": "<p>Specifies the status of a daily automated snapshot.</p><p>@param status Specifies the status of a daily automated snapshot.</p>",
"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p>Specifies the status of a daily automated snapshot.</p>",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"xmlnsNamespaceUri": null
],
"membersAsMap": {
  "Options": {
    "beanStyleGetterMethodName": "getOptions",
    "beanStyleSetterMethodName": "setOptions",
    "c2jName": "Options",
    "c2jShape": "SnapshotOptions",
    "defaultConsumerFluentSetterDocumentation": "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>
This is a convenience that creates an instance of the {@link SnapshotOptions.Builder} avoiding the need to create one manually via {@link SnapshotOptions#builder()}. When the {@link Consumer} completes, {@link SnapshotOptions.Builder#build()} is called immediately and its result is passed to {@link #options(SnapshotOptions)}.
@param options a consumer that will call methods on {@link SnapshotOptions.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #options(SnapshotOptions)"
, "deprecated": false,
"documentation": "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "options",
"fluentSetterDocumentation": "<p>Specifies the daily snapshot options specified for the Elasticsearch
domain.

@meet options Specifies the daily snapshot options specified for the Elasticsearch domain.

@return Returns a reference to this object so that method calls can be chained together.

"getterModel" : {
  "returnType" : "SnapshotOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>

@return Specifies the daily snapshot options specified for the Elasticsearch domain.,

"setterMethod" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "options",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simple" : false,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "fluentSetterMethodName" : "options",
  "getterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>

@return Specifies the daily snapshot options specified for the Elasticsearch domain.

"getterModel" : {
  "returnType" : "SnapshotOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>

@return Specifies the daily snapshot options specified for the Elasticsearch domain.

"setterMethod" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "options",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simple" : false,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "SnapshotOptions",
"variableName" : "options",
"variableType" : "SnapshotOptions",
"documentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
"simpleType" : "SnapshotOptions",
"variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
}
"Status" : {
"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
This is a convenience that creates an instance of the { @link OptionStatus.Builder} avoiding the need to create one manually via { @link OptionStatus#builder()}. When the {@link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link OptionStatus#status(OptionStatus)}. @param status a consumer that will call methods on { @link OptionStatus.Builder}@return Returns a reference to this object so that method calls can be chained together.
@see #status(OptionStatus)",
"deprecated" : false,
"documentation" : "<p>Specifies the status of a daily automated snapshot.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
@param status Specifies the status of a daily automated snapshot.
@return Specifies the status of a daily automated snapshot.
@see #status(OptionStatus)",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
@return Specifies the status of a daily automated snapshot.
@see #status(OptionStatus)",
"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
Specifies the status of a daily automated snapshot.

```
public OptionStatus getOptionStatus()
```

```
public void setOptionStatus(OptionStatus value)
```

```
public static Builder builder()
```

```
public static Builder builder(OptionStatus value)
```

```
public static Builder getBuilder()
```

This is a convenience that creates an instance of the `SnapshotOptions.Builder` avoiding the need to create one manually via `builder()`. When the `Consumer`
completes, {@link SnapshotOptions.Builder#build()} is called immediately and its result is passed to {@link 
SnapshotOptions(SnapshotOptions)}.\n\n@type @param options a consumer that will call methods on {@link 
SnapshotOptions.Builder}
\n@return Returns a reference to this object so that method calls can be chained 
together.\n@see #options(SnapshotOptions)

"deprecated" : false,
"documentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
"enumType" : null,
"eventoHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
"getterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch 
domain.</p>
"getterModel" : {

"returnType" : "SnapshotOptions",
"documentation" : null
},
"http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch
domain.</p>
@param options Specifies the daily snapshot options specified for the Elasticsearch domain.

```json
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "options",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "options",
  "variableType" : "SnapshotOptions",
  "documentation" : "<p>Specifies the daily snapshot options specified for the Elasticsearch domain.</p>",
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
},
  }
  "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
This is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus#builder()}.\n\nWhen the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link OptionStatus#status(OptionStatus)}.{\n@link OptionStatus.Builder}@return Returns a reference to this object so that method calls can be chained together.\n@see #status(OptionStatus)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the status of a daily automated snapshot.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "status",
  "fluentSetterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
@returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "status",
  "getterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
@returns Specifies the status of a daily automated snapshot.",
  "getterModel" : {

```
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "Status",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "Status",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>Specifies the status of a daily automated snapshot.</p>
@param status Specifies the status of a daily automated snapshot.",
"setterMethodName" : "setStatus",
"setterModel" : {
 "variableDeclarationType" : "OptionStatus",
 "variableName" : "status",
 "variableType" : "OptionStatus",
 "documentation" : null,
 "simpleType" : "OptionStatus",
 "variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
 "variableDeclarationType" : "OptionStatus",
 "variableName" : "status",
 "variableType" : "OptionStatus",
 "documentation" : "<p>Specifies the status of a daily automated snapshot.</p>",
 "simpleType" : "OptionStatus",
 "variableSetterType" : "OptionStatus"
"xmlNameSpaceUri" : null
]
,"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "SnapshotOptionsStatus",
"simpleMethod" : false,
"unmarshaller" : {
 "flattened" : false,
 "resultWrapper" : null
}
,"variable" : {
 "variableDeclarationType" : "SnapshotOptionsStatus",
 "variableName" : "snapshotOptionsStatus",
 "variableType" : "SnapshotOptionsStatus",
 "documentation" : null,
 "simpleType" : "SnapshotOptionsStatus",
 "variableSetterType" : "SnapshotOptionsStatus"
},
"wrapper" : false
},
"StartElasticsearchServiceSoftwareUpdateRequest" : {
 "c2jName" : "StartElasticsearchServiceSoftwareUpdateRequest",
 "customization" : {
 "artificialResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthOffset" : 0
},
 "deprecated" : false,
 "documentation" : "Container for the parameters to the <code><a>StartElasticsearchServiceSoftwareUpdate</a></code> operation. Specifies the name of the Elasticsearch domain that you wish to schedule a service software update on.",
 "enums" : null,
 "errorCode" : null,
 "event" : false,
 "eventStream" : false,
 "explicitEventPayloadMember" : null,
 "hasHeaderMember" : false,
 "hasPayloadMember" : false,
 "hasStatusCodeMember" : false,
 "hasStreamingMember" : false,
 "httpStatusCode" : null,
 "marshaller" : {
 "action" : "StartElasticsearchServiceSoftwareUpdate",
 "locationName" : null,
"requestUri" : "/2015-01-01/es/serviceSoftwareUpdate/start",
"target" : null,
"verb" : 'POST",
"xmlNameSpaceUri" : null
],
"members" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>
This is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link String#builder()].
When the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link DomainName(String)].
@ suppress #domainName(String)
@ returns a reference to this object so that method calls can be chained together.
@ see #domainName(String)
",
"deprecated" : false,
"documentation" : "<p>The name of the domain that you want to update to the latest service software.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>
@ Suppress #domainName(String) The name of the domain that you want to update to the latest service software.
@ return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>",
"getterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>",
"getterModel" : {
"returnType" : "String",
"documentation" : null
}
],
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"returnType" : "String",
"documentation" : null
}
The name of the domain that you want to update to the latest service software.

```java
public void setDomainName(String domainName) {
    this.domainName = domainName;
}
```

This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `{@link String#builder()}`. When the `{@link Consumer}` completes, `{@link String.Builder#build()}` is called immediately and its result is passed to `{@link #domainName(String)}`. This method allows you to pass a consumer that will call methods on `{@link String.Builder}` a reference to this object so that method calls can be chained together.

```
@see #domainName(String)
```

This method is marked as deprecated since 11.5.
"documentation" : "The name of the domain that you want to update to the latest service software.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "The name of the domain that you want to update to the latest service software.
@param domainName The name of the domain that you want to update to the latest service software.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "The name of the domain that you want to update to the latest service software.
@return The name of the domain that you want to update to the latest service software."
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "The name of the domain that you want to update to the latest service software.
@param domainName The name of the domain that you want to update to the latest service software."
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String"
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "<p>The name of the domain that you want to update to the latest service software.</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}.\n\n@param domainName a consumer that will call methods on {@link String.Builder}\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #domainName(String)",
"deprecated" : false,
"documentation" : "<p>The name of the domain that you want to update to the latest service software.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>
\n@see #domainName(String)",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>
\n@see #domainName(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"returnType" : "String",
"documentation" : null
}
"http": {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>The name of the domain that you want to update to the latest service software.</p>
@param domainName The name of the domain that you want to update to the latest service software.",
"setterMethod_name" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the domain that you want to update to the latest service software.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "StartElasticsearchServiceSoftwareUpdateRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
  "variableDeclarationType" : "StartElasticsearchServiceSoftwareUpdateRequest",
  "variableName" : "startElasticsearchServiceSoftwareUpdateRequest",
  "variableType" : "StartElasticsearchServiceSoftwareUpdateRequest",
  "documentation" : null,
  "simpleType" : "StartElasticsearchServiceSoftwareUpdateRequest",
  "variableSetterType" : "StartElasticsearchServiceSoftwareUpdateRequest"
},
"wrapper" : false
},
"StartElasticsearchServiceSoftwareUpdateResponse" : {
  "c2jName" : "StartElasticsearchServiceSoftwareUpdateResponse",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "The result of a <code>StartElasticsearchServiceSoftwareUpdate</code> operation. Contains the status of the update.",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [ {
    "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
    "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
    "c2jName" : "ServiceSoftwareOptions",
    "c2jShape" : "ServiceSoftwareOptions",
    "defaultValueConsumerFluentSetterDocumentation" : "The current status of the Elasticsearch service software update.

This is a convenience that creates an instance of the {link ServiceSoftwareOptions.Builder} avoiding the need to create one manually via {link ServiceSoftwareOptions#builder()}. When the {link
Consumer} completes, {@link ServiceSoftwareOptions.Builder#build()} is called immediately and its result is passed to {@link #serviceSoftwareOptions(ServiceSoftwareOptions)}.

@param serviceSoftwareOptions a consumer that will call methods on {@link ServiceSoftwareOptions.Builder}

@return Returns a reference to this object so that method calls can be chained together.

@see #serviceSoftwareOptions(ServiceSoftwareOptions)
serviceSoftwareOptions The current status of the Elasticsearch service software update.

"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : "The current status of the Elasticsearch service software update.",
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
  "ServiceSoftwareOptions" : {
    "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
    "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
    "c2jName" : "ServiceSoftwareOptions",
    "c2jShape" : "ServiceSoftwareOptions",
    "defaultConsumerFluentSetterDocumentation" : "The current status of the Elasticsearch service software update.
This is a convenience that creates an instance of the @link ServiceSoftwareOptions.Builder avoiding
the need to create one manually via @link ServiceSoftwareOptions#builder().
When the @link Consumer completes, @link ServiceSoftwareOptions.Builder#build() is called immediately
and its result is passed to @link #serviceSoftwareOptions(ServiceSoftwareOptions).@param serviceSoftwareOptions a
consumer that will call methods on @link ServiceSoftwareOptions.Builder
@returns a reference to this object so that method calls can be chained together.@see #serviceSoftwareOptions(ServiceSoftwareOptions)",
    "deprecated" : false,
    "documentation" : "The current status of the Elasticsearch service software update.",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "serviceSoftwareOptions",
    "fluentSetterDocumentation" : "The current status of the Elasticsearch service software update.
@returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "serviceSoftwareOptions",
    "getterDocumentation" : "The current status of the Elasticsearch service software update."}
The current status of the Elasticsearch service software update.

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"getterModel" : {
    "returnType" : "ServiceSoftwareOptions",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ServiceSoftwareOptions",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "ServiceSoftwareOptions",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"setterDocumentation" : "The current status of the Elasticsearch service software update."
```

```
@param
serviceSoftwareOptions The current status of the Elasticsearch service software update.

"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
    "variableDeclarationType" : "ServiceSoftwareOptions",
    "variableName" : "serviceSoftwareOptions",
    "variableType" : "ServiceSoftwareOptions",
    "documentation" : null,
    "simpleType" : "ServiceSoftwareOptions",
    "variableSetterType" : "ServiceSoftwareOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "ServiceSoftwareOptions",
    "variableName" : "serviceSoftwareOptions",
    "variableType" : "ServiceSoftwareOptions",
    "documentation" : "The current status of the Elasticsearch service software update."
}
```
"simpleType" : "ServiceSoftwareOptions",
"variableSetterType" : "ServiceSoftwareOptions"
},
"xmlnsSpaceUri" : null
}
},
"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getServiceSoftwareOptions",
  "beanStyleSetterMethodName" : "setServiceSoftwareOptions",
  "c2jName" : "ServiceSoftwareOptions",
  "c2jShape" : "ServiceSoftwareOptions",
  "defaultValueFluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.<p>
  This is a convenience that creates an instance of the [ @link ServiceSoftwareOptions.Builder]
  avoiding the need to create one manually via [ @link ServiceSoftwareOptions#builder()].
  When the [ @link Consumer] completes, [ @link ServiceSoftwareOptions.Builder#build()] is called immediately and its result
  is passed to [ @link #serviceSoftwareOptions(ServiceSoftwareOptions)].
  @param serviceSoftwareOptions a consumer that will call methods on [ @link ServiceSoftwareOptions.Builder]
  @return Returns a reference to this object so that method calls can be chained together.
  @see #serviceSoftwareOptions(ServiceSoftwareOptions)",
  "deprecated" : false,
  "documentation" : "The current status of the Elasticsearch service software update.<p>
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "serviceSoftwareOptions",
  "fluentSetterDocumentation" : "<p>The current status of the Elasticsearch service software update.<p>
  @param serviceSoftwareOptions The current status of the Elasticsearch service software update.
  @return Returns a reference to this object so that method calls can be chained together.
  "fluentSetterMethodName" : "serviceSoftwareOptions",
  "getterDocumentation" : "The current status of the Elasticsearch service software update.<p>
  "getterModel" : {
    "returnType" : "ServiceSoftwareOptions",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "ServiceSoftwareOptions",
    "queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ServiceSoftwareOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ServiceSoftwareOptions",
"setterDocumentation" : "<p>The current status of the Elasticsearch service software update.</p><p>@param serviceSoftwareOptions The current status of the Elasticsearch service software update.</p>",
"setterMethodName" : "setServiceSoftwareOptions",
"setterModel" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : null,
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
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"simple" : false,
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"variable" : {
  "variableDeclarationType" : "ServiceSoftwareOptions",
  "variableName" : "serviceSoftwareOptions",
  "variableType" : "ServiceSoftwareOptions",
  "documentation" : "The current status of the Elasticsearch service software update."",
  "simpleType" : "ServiceSoftwareOptions",
  "variableSetterType" : "ServiceSoftwareOptions"
},
"xmlNameSpaceUri" : null
} },
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "StartElasticsearchServiceSoftwareUpdateResponse",
"simpleMethod" : false,
"unmarshalller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "StartElasticsearchServiceSoftwareUpdateResponse",
  "variableName" : "startElasticsearchServiceSoftwareUpdateResponse",
  "variableType" : "StartElasticsearchServiceSoftwareUpdateResponse",
  "documentation" : null,
  "simpleType" : "StartElasticsearchServiceSoftwareUpdateResponse",
  "variableSetterType" : "StartElasticsearchServiceSoftwareUpdateResponse"
}
"variableType" : "StartElasticsearchServiceSoftwareUpdateResponse",
"documentation" : null,
"simpleType" : "StartElasticsearchServiceSoftwareUpdateResponse",
"variableSetterType" : "StartElasticsearchServiceSoftwareUpdateResponse"
},
"wrapper" : false
},
"StorageType" : {
"c2jName" : "StorageType",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>StorageTypes represents the list of storage related types and their attributes that are available for given InstanceType. </p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [
"beanStyleGetterMethodName" : "getStorageTypeName",
"beanStyleSetterMethodName" : "setStorageTypeName",
"c2jName" : "StorageTypeName",
"c2jShape" : "StorageTypeName",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to StorageTypeName(String) a consumer that will call methods on String.Builder\n\n@see StorageTypeName(String)"
},
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "storageTypeName",
"fluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object.

@param storageTypeName The new value for the StorageTypeName property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "storageTypeName",
"getterDocumentation" : "Returns the value of the StorageTypeName property for this object.

@return The value of the StorageTypeName property for this object.",
"getterModel" : {
 "returnType" : "String",
 "documentation" : null
},
"http" : {
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 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "StorageTypeName",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "StorageTypeName",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "StorageTypeName",
"setterDocumentation" : "Sets the value of the StorageTypeName property for this object.

@param storageTypeName The new value for the StorageTypeName property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setStorageTypeName",
"setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "storageTypeName",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
}
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "storageTypeName",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
  "beanStyleGetterMethodName" : "getStorageSubTypeName",
  "beanStyleSetterMethodName" : "setStorageSubTypeName",
  "c2jName" : "StorageSubTypeName",
  "c2jShape" : "StorageSubTypeName",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this
object.\n\n\nThis is a convenience that creates an instance of the [\nlink String.Builder] avoiding the need to create
one manually via {\nlink String.Builder}.\n\nWhen the [\link Consumer] completes, {\link
String.Builder#build()} is called immediately and its result is passed to [\link
#storageSubTypeName(String)]\n\n@returns A reference to this object so that method calls can be chained together.\n\n@see #storageSubTypeName(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "storageSubTypeName",
  "fluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.\n\n@returns A reference to this object so that method calls can be chained together.\n\n@param storageSubTypeName The new value for the StorageSubTypeName property for this object.\n\n@returns The value of the StorageSubTypeName property for this object.\n\n@returns The value of the StorageSubTypeName property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "simpleName" : "StorageSubTypeName"
This is a convenience that creates an instance of the {@link List<StorageTypeLimit>.Builder} avoiding the need to create one manually via {@link List<StorageTypeLimit>#builder()}. When the {@link Consumer storageSubTypeName The new value for the StorageSubTypeName property for this object."

setterMethodName" : "setStorageSubTypeName",

setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "storageSubTypeName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
}
},

"simple" : true,
"timestampFormat" : null,

"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "storageSubTypeName",
    "variableType" : "String",
    "documentation" : "",
    "simpleType" : "String",
    "variableSetterType" : "String"
}
},

"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getStorageTypeLimits",

"beanStyleSetterMethodName" : "setStorageTypeLimits",

"c2jName" : "StorageTypeLimits",

"c2jShape" : "StorageTypeLimitList",

defaultConsumerFluentSetterDocumentation" : "<p>List of limits that are applicable for given storage type.</p>
This is a convenience that creates an instance of the {@link List<StorageTypeLimit>.Builder} avoiding the need to create one manually via {@link List<StorageTypeLimit>#builder()}. When the {@link Consumer}
List of limits that are applicable for given storage type.  

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

List of limits that are applicable for given storage type.
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "StorageTypeLimit",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the \n{@link StorageTypeLimit.Builder} avoiding the need to create one manually via \n{@link StorageTypeLimit#builder()}.\nWhen the \n{@link Consumer} completes, \n{@link StorageTypeLimit.Builder#build()} is called immediately and its result is passed to \n{@link StorageTypeLimit.Builder}.\n\n@see #member(StorageTypeLimit)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(StorageTypeLimit)\nThe new value for the Member property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object.",
"getterModel" : {
  "returnType" : "StorageTypeLimit",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "StorageTypeLimit",
  "variableName" : "member",
  "variableType" : "StorageTypeLimit",
  "documentation" : null,
  "simpleType" : "StorageTypeLimit",
  "variableSetterType" : "StorageTypeLimit"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "StorageTypeLimit",
  "variableName" : "member",
  "variableType" : "StorageTypeLimit",
  "documentation" : 
  "<p>List of limits that are applicable for given storage type. </p>\n\n@param storageTypeLimits List of limits that are applicable for given storage type."",
  "setterMethodName" : "setStorageTypeLimits",
  "setterModel" : {
    "variableDeclarationType" : "java.util.List<StorageTypeLimit>",
    "variableName" : "storageTypeLimits",
  },
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StorageTypeLimits",
"setterDocumentation" : "Sets the value of the StorageTypeLimits property for this object."
"setterMethodName" : "setStorageTypeLimits",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<StorageTypeLimit>",
  "variableName" : "storageTypeLimits",
}}
"variableType" : "java.util.List<StorageTypeLimit>",
"documentation" : null,
"simpleType" : "List<StorageTypeLimit>",
"variableSetterType" : "java.util.Collection<StorageTypeLimit>
",
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<StorageTypeLimit>",
  "variableName" : "storageTypeLimits",
  "variableType" : "java.util.List<StorageTypeLimit>",
  "documentation" : "<p>List of limits that are applicable for given storage type. </p>",
  "simpleType" : "List<StorageTypeLimit>",
  "variableSetterType" : "java.util.Collection<StorageTypeLimit>"
},
"xmlNameSpaceUri" : null
}],
"membersAsMap" : {
  "StorageSubTypeName" : {
    "beanStyleGetterMethodName" : "getStorageSubTypeName",
    "beanStyleSetterMethodName" : "setStorageSubTypeName",
    "c2jName" : "StorageSubTypeName",
    "c2jShape" : "StorageSubTypeName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.\n\nThis is a convenience that creates an instance of the @link String.Builder avoiding the need to create one manually via @link String#builder().\n\nWhen the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link String#storageSubTypeName(String).\n\n@see String#storageSubTypeName(String)"
  },
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "storageSubTypeName",
  "fluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.\n\n@see String#storageSubTypeName(String)"
  },
  "getterDocumentation" : "Returns a reference to this object so that method calls can be chained together.\n\n@see String#storageSubTypeName(String)"
  },
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  }
}
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "StorageSubTypeName",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "StorageSubTypeName",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "StorageSubTypeName",
"setterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.\n\n@param
storageSubTypeName The new value for the StorageSubTypeName property for this object.",
"setterMethodName" : "setStorageSubTypeName",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "storageSubTypeName",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "storageSubTypeName",
    "variableType" : "String",
    "documentation" : "",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"StorageTypeLimits": {
  "beanStyleGetterMethodName": "getStorageTypeLimits",
  "beanStyleSetterMethodName": "setStorageTypeLimits",
  "c2jName": "StorageTypeLimits",
  "c2jShape": "StorageTypeLimitList",
  "defaultConsumerFluentSetterDocumentation": "<p>List of limits that are applicable for given storage type.\n\nThis is a convenience that creates an instance of the \{@link List<StorageTypeLimit>.Builder\} avoiding the need to create one manually via \{@link List<StorageTypeLimit>#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link List<StorageTypeLimit>.Builder#build()\} is called immediately and its result is passed to \{@link #storageTypeLimits(List<StorageTypeLimit>)\}.\n\n@param storageTypeLimits a consumer that will call methods on \{@link List<StorageTypeLimit>.Builder\} that\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #storageTypeLimits(List<StorageTypeLimit>)",
  "deprecated": false,
  "documentation": "<p>List of limits that are applicable for given storage type.\n</p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "storageTypeLimits",
  "fluentSetterDocumentation": "<p>List of limits that are applicable for given storage type.\n</p>
\n@param storageTypeLimits List of limits that are applicable for given storage type.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #storageTypeLimits(List<StorageTypeLimit>)",
  "fluentSetterMethodName": "storageTypeLimits",
  "getterDocumentation": "<p>List of limits that are applicable for given storage type.\n</p><p>\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n</p><p>\n@return List of limits that are applicable for given storage type.\n</p>",
  "getterModel": {
    "returnType": "java.util.List<StorageTypeLimit>",
    "documentation": null
  }
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "StorageTypeLimits",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "StorageTypeLimits",
  "uri": false
},
"idempotencyToken": false,
This is a convenience that creates an instance of the `StorageTypeLimit.Builder` avoiding the need to create one manually via `StorageTypeLimit#builder()`. When the `Consumer` completes, `StorageTypeLimit.Builder#build()` is called immediately and its result is passed to `#member(StorageTypeLimit)`. The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

@see #member(StorageTypeLimit)

The value of the Member property for this object.

@return The value of the Member property for this object.

@see #member(StorageTypeLimit)
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object."
,"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "StorageTypeLimit",
  "variableName" : "member",
  "variableType" : "StorageTypeLimit",
  "documentation" : null,
  "simpleType" : "StorageTypeLimit",
  "variableSetterType" : "StorageTypeLimit"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "StorageTypeLimit",
  "variableName" : "member",
  "variableType" : "StorageTypeLimit",
  "documentation" : "",
  "simpleType" : "StorageTypeLimit",
  "variableSetterType" : "StorageTypeLimit"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "StorageTypeLimit",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "StorageTypeLimit",
"templateImplType" : "java.util.ArrayList<StorageTypeLimit>",
"templateType" : "java.util.List<StorageTypeLimit>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StorageTypeLimits",
"setterDocumentation" : "<p>List of limits that are applicable for given storage type. </p>@param storageTypeLimits List of limits that are applicable for given storage type.",
"setterMethodName" : "setStorageTypeLimits",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<StorageTypeLimit>",
  "variableName" : "storageTypeLimits",
  "variableType" : "java.util.List<StorageTypeLimit>",
  "documentation" : null,
  "simpleType" : "List<StorageTypeLimit>",
  "variableSetterType" : "java.util.Collection<StorageTypeLimit>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<StorageTypeLimit>",
  "variableName" : "storageTypeLimits",
  "variableType" : "java.util.List<StorageTypeLimit>",
  "documentation" : "<p>List of limits that are applicable for given storage type. </p>",
  "simpleType" : "List<StorageTypeLimit>",
  "variableSetterType" : "java.util.Collection<StorageTypeLimit>"
},
"xmlNameSpaceUri" : null,

"StorageTypeName" : {
  "beanStyleGetterMethodName" : "getStorageTypeName",
  "beanStyleSetterMethodName" : "setStorageTypeName",
  "c2jName" : "StorageTypeName",
  "c2jShape" : "StorageTypeName",
  "defaultValueFluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object.
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link StorageTypeName(String)}. 
@returns a reference to this object so that method calls can be chained together.
\see StorageTypeName(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "storageTypeName",
  "fluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object.
@returns a reference to this object so that method calls can be chained together.
\see storageTypeName The new value for the StorageTypeName property for this object.\returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "storageTypeName",
"getterDocumentation" : "Returns the value of the StorageTypeName property for this object.

@return The value of the StorageTypeName property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StorageTypeName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StorageTypeName",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "StorageTypeName",

"setterDocumentation" : "Sets the value of the StorageTypeName property for this object.

@param storageTypeName The new value for the StorageTypeName property for this object.

@return The new value for the StorageTypeName property for this object.",

"setterMethodName" : "setStorageTypeName",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "storageTypeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "storageTypeName",
  "variableType" : "String"}
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
}
"xmlNameSpaceUri" : null
}

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getStorageTypeName",
  "beanStyleSetterMethodName" : "setStorageTypeName",
  "c2jName" : "StorageTypeName",
  "c2jShape" : "StorageTypeName",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object.\n\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\n\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #storageTypeName(String)].\n\n@param storageTypeName a consumer that will call methods on [@link String.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #storageTypeName(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "storageTypeName",
  "fluentSetterDocumentation" : "Sets the value of the StorageTypeName property for this object.\n\n@param storageTypeName The new value for the StorageTypeName property for this object.\n\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "storageTypeName",
  "getterDocumentation" : "Returns the value of the StorageTypeName property for this object.\n\n@return The value of the StorageTypeName property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",}
"marshallLocationName" : "StorageTypeName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StorageTypeName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "StorageTypeName",
"setterDocumentation" : "Sets the value of the StorageTypeName property for this object.

@param
storageTypeName The new value for the StorageTypeName property for this object.",
"setterMethodName" : "setStorageTypeName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "storageTypeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "storageTypeName",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getStorageSubTypeName",
"beanStyleSetterMethodName" : "setStorageSubTypeName",
"c2jName" : "StorageSubTypeName",
"c2jShape" : "StorageSubTypeName",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create
one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link
String.Builder#build()} is called immediately and its result is passed to {@link
#storageSubTypeName(String)}. The new value for the StorageSubTypeName property for this object.

@see

@link

#storageSubTypeName(String),
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetMethodName" : "storageSubTypeName",
  "fluentSetterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.\n\n@param storageSubTypeName The new value for the StorageSubTypeName property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "storageSubTypeName",
  "getterDocumentation" : "Returns the value of the StorageSubTypeName property for this object.\n\n@return The value of the StorageSubTypeName property for this object."
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "StorageSubTypeName",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "StorageSubTypeName",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : false,
  "listModel" : null,
  "map" : false,
  "mapModel" : null,
  "marshallingType" : "STRING",
  "name" : "StorageSubTypeName",
  "setterDocumentation" : "Sets the value of the StorageSubTypeName property for this object.\n\n@param storageSubTypeName The new value for the StorageSubTypeName property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
  "setterMethodName" : "setStorageSubTypeName",
  "setterModel" : {"storageSubTypeName(String)"}
"variableDeclarationType" : "String",
"variableName" : "storageSubTypeName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "storageSubTypeName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{ "beanStyleGetterMethodName" : "getStorageTypeLimits",
"beanStyleSetterMethodName" : "setStorageTypeLimits",
"c2jName" : "StorageTypeLimits",
"c2jShape" : "StorageTypeLimitList",
"defaultConsumerFluentSetterDocumentation" : "<p>List of limits that are applicable for given storage type. This is a convenience that creates an instance of the { @link List<StorageTypeLimit>.Builder } avoiding the need to create one manually via { @link List<StorageTypeLimit>#builder()}.
When the { @link Consumer } completes, { @link List<StorageTypeLimit>.Builder#build() } is called immediately and its result is passed to { @link #storageTypeLimits(List<StorageTypeLimit>)}.
@param storageTypeLimits a consumer that will call methods on { @link List<StorageTypeLimit>.Builder}.
@return Returns a reference to this object so that method calls can be chained together.
@see #storageTypeLimits(List<StorageTypeLimit>)"",
"deprecated" : false,
"documentation" : "List of limits that are applicable for given storage type.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "storageTypeLimits",
"fluentSetterDocumentation" : "List of limits that are applicable for given storage type.
@param storageTypeLimits List of limits that are applicable for given storage type.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "storageTypeLimits",
"getterDocumentation" : "List of limits that are applicable for given storage type.
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
",
"getterModel" : {
"returnType" : "java.util.List<StorageTypeLimit>",
"documentation" : null
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "StorageTypeLimits",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "StorageTypeLimits",
  "uri": false
},

"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "StorageTypeLimit",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the
[StorageTypeLimit.Builder] avoiding the need to
create one manually via [StorageTypeLimit#builder()].
When the [Consumer] completes, [StorageTypeLimit.Builder#build()]
is called immediately and its result is passed to
[StorageTypeLimit].

@return Returns a reference to this object so that method calls can be chained
together.

@see #member(StorageTypeLimit)",
  "deprecated": false,
  "documentation": "",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "member",
  "fluentSetterDocumentation": "Sets the value of the Member property for this object.

@see #member(StorageTypeLimit)",
  "fluentSetterMethodName": "member"},
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@return The value of the Member property for this object."

"getterModel" : {
    "returnType" : "StorageTypeLimit",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."

"setterMethodName" : "setMember",
"setterModel" : {
    "variableDeclarationType" : "StorageTypeLimit",
    "variableName" : "member",
    "variableType" : "StorageTypeLimit",
    "documentation" : null,
    "simpleType" : "StorageTypeLimit",
    "variableSetterType" : "StorageTypeLimit"
},

"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "StorageTypeLimit",
    "variableName" : "member",
    "variableType" : "StorageTypeLimit",
}
"documentation" : "",
"simpleType" : "StorageTypeLimit",
"variableSetterType" : "StorageTypeLimit"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "StorageTypeLimit",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "StorageTypeLimit",
"templateImplType" : "java.util.ArrayList<StorageTypeLimit>",
"templateType" : "java.util.List<StorageTypeLimit>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StorageTypeLimits",
"setterDocumentation" : "<p>List of limits that are applicable for given storage type. </p>
@param storageTypeLimits List of limits that are applicable for given storage type.",
"setterMethodName" : "setStorageTypeLimits",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<StorageTypeLimit>",
  "variableName" : "storageTypeLimits",
  "variableType" : "java.util.List<StorageTypeLimit>",
  "documentation" : null,
  "simpleType" : "List<StorageTypeLimit>",
  "variableSetterType" : "java.util.Collection<StorageTypeLimit>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<StorageTypeLimit>",
  "variableName" : "storageTypeLimits",
  "variableType" : "java.util.List<StorageTypeLimit>",
  "documentation" : "<p>List of limits that are applicable for given storage type. </p>",
  "simpleType" : "List<StorageTypeLimit>",
  "variableSetterType" : "java.util.Collection<StorageTypeLimit>"
},
"xmlNameSpaceUri" : null
} ] }
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "StorageType",
"simpleMethod" : false,
"unmarshaller" : {
    "flattened" : false,  
    "resultWrapper" : null
},
"variable" : {
    "variableDeclarationType" : "StorageType",
    "variableName" : "storageType",
    "variableType" : "StorageType",
    "documentation" : null,
    "simpleType" : "StorageType",
    "variableSetterType" : "StorageType"
},
"wrapper" : false
},
"StorageTypeLimit" : {
    "c2jName" : "StorageTypeLimit",
    "customization" : {
        "artificialResultWrapper" : null,
        "skipGeneratingMarshaller" : false,
        "skipGeneratingModelClass" : false,
        "skipGeneratingUnmarshaller" : false,
        "staxTargetDepthOffset" : 0
    },
    "deprecated" : false,
    "documentation" : "<p>Limits that are applicable for given storage type. </p>",
    "enums" : null,
    "errorCode" : null,
    "event" : false,
    "eventStream" : false,
    "explicitEventPayloadMember" : null,
    "hasHeaderMember" : false,
    "hasPayloadMember" : false,
    "hasStatusCodeMember" : false,
    "hasStreamingMember" : false,
    "httpStatusCode" : null,
    "marshaller" : null,
    "marshaller" : null,
    "members" : [
        { "beanStyleGetterMethodName" : "getLimitName",
          "beanStyleSetterMethodName" : "setLimitName",
          "c2jName" : "LimitName",
          "c2jShape" : "LimitName",
          "defaultConsumerFluentSetterDocumentation" : "<p>Name of storage limits that are applicable for given storage type. If <code>&lt;code&gt;&lt;a&gt;StorageType&lt;/a&gt; &lt;/code&gt; is ebs, following storage options are applicable &lt;ol&gt;&lt;li&gt;MinimumVolumeSize&lt;/li&gt; Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumVolumeSize&lt;/li&gt; Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumIops&lt;/li&gt; Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MinimumIops&lt;/li&gt; Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;/ol&gt;&lt;/p&gt;nThis is a"
convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the [{@link Consumer} completes, [] is called immediately and its result is passed to
{@link String.Builder#build()}.

When the [{@link Consumer} completes, [] is called immediately and its result is passed to
{@link String.Builder#build()}.

- **limitName(String)**
  - **documentation**
    - Name of storage limits that are applicable for given storage type. If <code>&lt;code&gt;&lt;code&gt;&lt;/code&gt;&lt;/code&gt; is ebs, following storage options are applicable <ol>
      - MinimumVolumeSize
      - MaximumVolumeSize
      - MaximumIops
      - MinimumIops
    </ol>
    - **param limitName a consumer that will call methods on {&lt;code&gt;&lt;code&gt;String.Builder&lt;/code&gt;&lt;/code&gt;}&lt;var&gt;returns&lt;/var&gt; a reference to this object so that method calls can be chained together.&lt;/var&gt;@see limitName(String)"
  - **deprecated** : false,
  - **documentation**
    - Name of storage limits that are applicable for given storage type. If <code>&lt;code&gt;&lt;code&gt;&lt;/code&gt;&lt;/code&gt; is ebs, following storage options are applicable <ol>
      - MinimumVolumeSize
      - MaximumVolumeSize
      - MaximumIops
      - MinimumIops
    </ol>
    - **param limitName Name of storage limits that are applicable for given storage type. If <code>&lt;code&gt;&lt;code&gt;&lt;/code&gt;&lt;/code&gt; is ebs, following storage options are applicable <ol>
      - MinimumVolumeSize
      - MaximumVolumeSize
      - MaximumIops
      - MinimumIops
    </ol>
    - **return Returns a reference to this object so that method calls can be chained together."},
    - **getterDocumentation**
      - Name of storage limits that are applicable for given storage type. If <code>&lt;code&gt;&lt;code&gt;&lt;/code&gt;&lt;/code&gt; is ebs, following storage options are applicable <ol>
      - MinimumVolumeSize
      - MaximumVolumeSize
      - MaximumIops
      - MinimumIops
    </ol>
    - **return Name of storage limits that are applicable for given storage type. If <code>&lt;code&gt;&lt;code&gt;&lt;/code&gt;&lt;/code&gt; is ebs, following storage options are applicable <ol>
      - MinimumVolumeSize
      - MaximumVolumeSize
      - MaximumIops
      - MinimumIops
    </ol>
    - **return Returns a reference to this object so that method calls can be chained together."}
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "LimitName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LimitName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "LimitName",
"setterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>a>StorageType</a> &lt;/code> is ebs, following storage options are applicable &lt;ol&gt; &lt;li&gt;MinimumVolumeSize&lt;/li&gt; Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumVolumeSize&lt;/li&gt; Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MinimumIops&lt;/li&gt; Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumIops&lt;/li&gt; Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;/ol&gt; \n@param limitName Name of storage limits that are applicable for given storage type. If &lt;code&gt;a>StorageType&lt;/a&gt; &lt;/code&gt; is ebs, following storage options are applicable &lt;ol&gt; &lt;li&gt;MinimumVolumeSize&lt;/li&gt; Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumVolumeSize&lt;/li&gt; Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MinimumIops&lt;/li&gt; Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumIops&lt;/li&gt; Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;/ol&gt;",
"setterMethodName" : "setLimitName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
}.
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>
StorageType</code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li>
Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
<li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
<li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </ol> </p>",
"simpleType" : "String",
"variableSetterType" : "String"},
"xmlNameSpaceUri" : null
}.

"beanStyleGetterMethodName" : "getLimitValues",
"beanStyleSetterMethodName" : "setLimitValues",
"c2jName" : "LimitValues",
"c2jShape" : "LimitValueList",
"defaultConsumerFluentSetterDocumentation" : "<p> Values for the <code>
StorageTypeLimit$LimitName</code> .

This is a convenience that creates an instance of the [ @link List<String>.Builder] avoiding the need to create one manually via [ @link List<String>#builder()]. When the [ @link Consumer] completes, [ @link List<String>.Builder#build()] is called immediately and its result is passed to [ @link #limitValues(List<String>)].

@returns a reference to this object so that method calls can be chained together.

@see #limitValues(List<String>)",
"deprecated" : false,
"documentation" : "<p> Values for the <code>
StorageTypeLimit$LimitName</code> .

Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.

@returns Values for the <code>
StorageTypeLimit$LimitName</code> .

@getters return the values for this object.

@returns a reference to this object so that method calls can be chained together.
"
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterDocumentation" : "<p> Values for the <code>
StorageTypeLimit$LimitName</code> .

@returns a reference to this object so that method calls can be chained together.
"
"fluentSetterMethodName" : "limitValues",
"getterDocumentation" : "<p> Values for the <code>
StorageTypeLimit$LimitName</code> .

@returns Values for the <code>
StorageTypeLimit$LimitName</code> .

@getters return the values for this object.

@returns a reference to this object so that method calls can be chained together.
".
"getterName" : "limitValues",
"getterParameters" : null,
"getterStyle" : "getter",
"gettersReturnDocumentation" : "<p> Values for the <code>
StorageTypeLimit$LimitName</code> .

@returns Values for the <code>
StorageTypeLimit$LimitName</code> .

@getters return the values for this object.

@returns a reference to this object so that method calls can be chained together.
".
"gettersReturnParameterType" : "LimitValueList",
"innerDocumentation" : null,
"innerName" : null,
"innerReference" : null,
"innerReferenceDocumentation" : null,
"innerReferenceName" : null,
"innerReferencePrefix" : null,
"innerReferenceShape" : null,
"innerShape" : null,
"innerSetterMethodName" : null,
"innerSetterType" : null,
"messageFormat" : null,
"messageShape" : null,
"messageType" : null,
"missing" : true,
"missingDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>
StorageType</code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li>
Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
<li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
<li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </ol> </p>",
"missingSimpleType" : "String",
"missingVariableSetterType" : "String"}.
"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LimitValues",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LimitValues",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "LimitValue",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link String#builder()]. When the [ @link Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link #member(String)].
  
  @param member The new value for the Member property for this object.
  @return Returns a reference to this object so that method calls can be chained together.
  @see #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
  
  @param member
  @return Returns a reference to this object so that method calls can be chained together.
  @see #member(String)"
}
calls can be chained together.

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

\n@return The value of the Member property for this object.
",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

\n\n@\n@param member The new value for the Member property for this object.
",
"setterMethodName" : "setMember",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"}
"variableName" : "member",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>
}
],
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "LimitValues",
"setterDocumentation" : "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .
@param limitValues Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .",
"setterMethodName" : "setLimitValues",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitValues",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitValues",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
  "LimitName" : {
    "beanStyleGetterMethodName" : "getLimitName",
    "beanStyleSetterMethodName" : "setLimitName",
    "documentation" : null,
    "simpleType" : "String",
    "setterDocumentation" : "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .
@param limitName Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> .",
"setterMethodName" : "setLimitName",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "limitName",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
}},
"beanStyleSetterMethodName" : "setLimitName",
"c2jName" : "LimitName",
"c2jShape" : "LimitName",
"defaultConsumerFluentSetterDocumentation" : "<p> Name of storage limits that are applicable for given
storage type. If <code> <a>StorageType</a> </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.
It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable
for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of
Iops that is applicable for given storage type. It can be empty if it is not applicable. </ol>\n\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via
{ @link String#builder()}.\n\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #limitName(String)}.
\n@see #limitName(String)",
"deprecated" : false,
"documentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>
<a>StorageType</a> </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.
It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable
for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. </ol>\n\nName of storage limits that are applicable for given storage type. If <code> <a>StorageType</a> </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.
It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable
for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. </ol>
\n@see #limitName(String)",
"enumType" : "null",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "null",
"fluentEnumSetterMethodName" : "null",
"fluentGetterMethodName" : "limitName",
"fluentSetterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If
<code> <a>StorageType</a> </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.
It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable
for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. </ol>\n\nReturns a reference to this object so that method calls can be chained together.
\n@see #limitName(String)",
"getterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>
<a>StorageType</a> </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.
It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable
for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. </ol>\n\nReturns a reference to this object so that method calls can be chained together.".
"fluentSetterMethodName" : "limitName",
"getterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>
<a>StorageType</a> </code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type.
It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable
for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is
applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type.
It can be empty if it is not applicable.
<li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. 

<li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 

<li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 

@return Name of storage limits that are applicable for given storage type. If <code>&lt;a&gt;StorageType&lt;/a&gt;</code> is ebs, following storage options are applicable. 

<ol>
<li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. 

<li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. 

<li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 

<li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 
</ol>
storage type. It can be empty if it is not applicable. 

- **MaximumVolumeSize**: Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.

- **MaximumIops**: Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.

- **MinimumIops**: Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.

The following storage options are applicable:

- **MinimumVolumeSize**: Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.

- **MaximumVolumeSize**: Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.

- **MaximumIops**: Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.

- **MinimumIops**: Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable.

This is a convenience that creates an instance of the `StorageTypeLimit$LimitName` avoiding the need to create one manually via `List<String>#builder()`. When the `@link Consumer` completes, `List<String>.Builder#build()` is called immediately and its result is passed to `List<String>`. A consumer that will call methods on `List<String>`. Returns a reference to this object so that method calls can be chained together. The following methods on `List<String>` can be chained together:

- **LimitValues**: A convenience that creates an instance of the `LimitValueList` avoiding the need to create one manually via `List<String>#builder()`. When the `@link Consumer` completes, `List<String>.Builder#build()` is called immediately and its result is passed to `List<String>`. A consumer that will call methods on `List<String>`. Returns a reference to this object so that method calls can be chained together. The following methods on `List<String>` can be chained together:
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "limitValues",
"fluentSetterDocumentation" : "<p>Values for the <code>StorageTypeLimit$LimitName</code>.</p>
@param limitValues Values for the <code>StorageTypeLimit$LimitName</code>.
@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "limitValues",
"getterDocumentation" : "<p>Values for the <code>StorageTypeLimit$LimitName</code>.</p>
<p>Attempts to modify the collection returned by this method will result in an
UnsupportedOperationException.</p>
@return Values for the <code>StorageTypeLimit$LimitName</code>.

"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LimitValues",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LimitValues",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "LimitValue",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object."
  }
},
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object."

This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create
one manually via [@link String#builder()].

When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to
[@link #member(String)]
member a consumer that will call methods on `@link String.Builder

@returns Returns a reference to this object so that method calls can be chained together.

@see #member(String)"

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member

The new value for the Member property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@returns The value of the Member property for this object.

"getterModel" : {

"returnType" : "String",
"documentation" : null
},

"http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member

The new value for the Member property for this object.

@returns The value of the Member property for this object.

"setterMethodName" : "setMember", 
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "LimitValues",
"setterDocumentation": "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code>.
@param limitValues Values for the <code> <a>StorageTypeLimit$LimitName</a> </code>.

setterMethodName": "setLimitValues",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "limitValues",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {


"variableDeclarationType": "java.util.List<String>",
"variableName": "limitValues",
"variableType": "java.util.List<String>",
"documentation": "<p> Values for the <code> <a>StorageTypeLimit$LimitName</a> </code> . </p>",
"simpleType": "List<String>",
"variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null
},
"nonStreamingMembers": [
{
  "beanStyleGetterMethodName": "getLimitName",
  "beanStyleSetterMethodNam..."
}],

"defaultConsumerFluentSetterDocumentation": "<p> Name of storage limits that are applicable for given storage type. If <code> <a>StorageType</a> </code> is ebs, following storage options are applicable &lt;ol&gt;
&lt;li&gt;MinimumVolumeSize&lt;/li&gt; Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumVolumeSize&lt;/li&gt; Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumIops&lt;/li&gt; Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MinimumIops&lt;/li&gt; Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;/ol&gt; 

This is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via 
{link String#createBuilder}.

When the {link Consumer} completes, {link String#build} is called immediately and its result is passed to 
{link #limitName(String)}.

@see #limitName(String)

"deprecated": false,

"documentation": "<p> Name of storage limits that are applicable for given storage type. If <code> <a>StorageType</a> </code> is ebs, following storage options are applicable &lt;ol&gt;
&lt;li&gt;MinimumVolumeSize&lt;/li&gt; Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumVolumeSize&lt;/li&gt; Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumIops&lt;/li&gt; Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MinimumIops&lt;/li&gt; Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;/ol&gt; 

An @ param limitName a consumer that will call methods on 
{link String.Builder} that will call

@see #limitName(String)

"enumType": null,
"eventType": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "limitName",

"fluentSetterDocumentation": "<p> Name of storage limits that are applicable for given storage type. If <code> <a>StorageType</a> </code> is ebs, following storage options are applicable &lt;ol&gt;
&lt;li&gt;MinimumVolumeSize&lt;/li&gt; Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumVolumeSize&lt;/li&gt; Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MaximumIops&lt;/li&gt; Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. &lt;li&gt;MinimumIops&lt;/li&gt; Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. 

An @ param limitName Name of storage limits
that are applicable for given storage type. If `<code> <a>StorageType</a> </code>` is ebs, following storage options are applicable `<ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </ol>`

"fluentSetterMethodName" : "limitName",
"getterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If `<code> <a>StorageType</a> </code>` is ebs, following storage options are applicable `<ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </ol>

@return Name of storage limits that are applicable for given storage type. If `<code> <a>StorageType</a> </code>` is ebs, following storage options are applicable `<ol> <li>MinimumVolumeSize</li> Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumVolumeSize</li> Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable. <li>MaximumIops</li> Maximum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. <li>MinimumIops</li> Minimum amount of Iops that is applicable for given storage type. It can be empty if it is not applicable. </ol>`

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "LimitName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "LimitName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "LimitName",
"setterDocumentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>
StorageType</code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li>
Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
</ol>
MaximumVolumeSize</li>
Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
<li>MinimumVolumeSize</li>
Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
</ol>
"@param limitName Name of storage limits that are applicable for given storage type. If <code>
StorageType</code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li>
Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
</ol>
MaximumVolumeSize</li>
Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
</ol>
"setterMethodName" : "setLimitName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>
StorageType</code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li>
Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
</ol>
MaximumVolumeSize</li>
Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
</ol>
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getLimitValues",
"beanStyleSetterMethodName" : "setLimitValues",
"c2jName" : "LimitValues",
"c2jShape" : "LimitValueList",
"defaultConsumerFluentSetterDocumentation" : "<p> Values for the <code>
"@param limitName Name of storage limits that are applicable for given storage type. If <code>
StorageType</code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li>
Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
</ol>
MaximumVolumeSize</li>
Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
</ol>
"setterMethodName" : "setLimitName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "limitName",
"variableType" : "String",
"documentation" : "<p> Name of storage limits that are applicable for given storage type. If <code>
StorageType</code> is ebs, following storage options are applicable <ol>
<li>MinimumVolumeSize</li>
Minimum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
</ol>
MaximumVolumeSize</li>
Maximum amount of volume size that is applicable for given storage type. It can be empty if it is not applicable.
</ol>
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getLimitValues",
"beanStyleSetterMethodName" : "setLimitValues",
"c2jName" : "LimitValues",
"c2jShape" : "LimitValueList",
"defaultConsumerFluentSetterDocumentation" : "<p> Values for the <code>
This is a convenience that creates an instance of the `List<String>.Builder` avoiding the need to create one manually via `List<String>#builder()`. When the `Consumer` completes, `List<String>.Builder#build()` is called immediately and its result is passed to `List<String>.Builder#build()`. When the `@param limitValues a consumer that will call methods on `List<String>.Builder`.

```java
@see limitValues(List<String>)
```

"deprecated": false,
"documentation": "Values for the `<a>StorageTypeLimit$LimitName</a>`.

"enumType": null,
"eventType": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "limitValues",
"fluentSetterMethodName": "limitValues",
"getterDocumentation": "Values for the `<a>StorageTypeLimit$LimitName</a>`.

"getterModel": {
  "returnType": "java.util.List<String>",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "LimitValues",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "LimitValues",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",

```java
StorageTypeLimit$LimitName
```
"interfaceType" : "java.util.List",
"listMemberModel" : {
  "beanStyleGetterMethodName" : "getMember",
  "beanStyleSetterMethodName" : "setMember",
  "c2jName" : "member",
  "c2jShape" : "LimitValue",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the { @link String.Builder } avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #member(String)}. @param member a consumer that will call methods on { @link String.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #member(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object. @return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object. @return The value of the Member property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object.,
"setterMethodName" : "setMember",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "member",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "member",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "LimitValues",
"setterDocumentation" : "<p> Values for the <code><a>StorageTypeLimit$LimitName</a></code>. 
@param limitValues Values for the <code><a>StorageTypeLimit$LimitName</a></code>.

@code>

"setterMethodName" : "setLimitValues",
"setterModel" : {
}
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "limitValues",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "limitValues",
"variableType" : "java.util.List<String>",
"documentation" : "<p> Values for the <code> StorageTypeLimit$LimitName </code> . </p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
}],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "StorageTypeLimit",
"simpleMethod" : false,
"unmarshaller" : {
"flattened" : {
"flat" : true,
"resultWrapper" : null
},
"variable" : {
"variableDeclarationType" : "StorageTypeLimit",
"variableName" : "storageTypeLimit",
"variableType" : "StorageTypeLimit",
"documentation" : null,
"simpleType" : "StorageTypeLimit",
"variableSetterType" : "StorageTypeLimit"
},
"wrapper" : false
},
"Tag" : {
"c2jName" : "Tag",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation": "<p>Specifies a key value pair for a resource tag.</p>",
"enums": null,
"errorCode": null,
"event": false,
"eventStream": false,
"explicitEventPayloadMember": null,
"hasHeaderMember": false,
"hasPayloadMember": false,
"hasStatusCodeMember": false,
"hasStreamingMember": false,
"httpStatusCode": null,
"marshaller": null,
"members": [
  {
    "beanStyleGetterMethodName": "getKey",
    "beanStyleSetterMethodName": "setKey",
    "c2jName": "Key",
    "c2jShape": "TagKey",
    "defaultConsumerFluentSetterDocumentation": "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String.Builder].
When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link String.Builder].
@param key a consumer that will call methods on [@link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #key(String)
",
  "deprecated": false,
  "documentation": "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "key",
  "fluentSetterDocumentation": "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>

@see #key(String)
",
  "getterDocumentation": "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>"
}],
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Key",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Key",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"setterDocumentation": "\<p\>Specifies the <code\>TagKey</code\>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.\</p\>\n\@param key Specifies the <code\>TagKey</code\>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.\"",
"setterMethodName": "setKey",
"setterModel": {
"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "key",
"variableType": "String",
"documentation": "\<p\>Specifies the <code\>TagKey</code\>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.\</p\>",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlnsNameSpaceUri": null
},
}
"beanStyleGetterMethodName" : "getValue",
"beanStyleSetterMethodName" : "setValue",
"c2jName" : "Value",
"c2jShape" : "TagValue",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>
</p>

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()]. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [value(String)].

When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [value(String)].

@param value a consumer that will call methods on [String.Builder]

@see #value(String)",
"deprecated" : false,
"documentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>
</p>

This is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String#builder()]. When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [value(String)].

When the [Consumer] completes, [String.Builder#build()] is called immediately and its result is passed to [value(String)].

@return Returns a reference to this object so that method calls can be chained together.
@see #value(String)",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>
</p>

Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>

@return Returns a reference to this object so that method calls can be chained together.
@see #value(String)",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>
</p>

Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>

@return Returns a reference to this object so that method calls can be chained together.
@see #value(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
Specifies the `<code>TagValue</code>`, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`.

```

class TagValue {
    // ... properties ...
    @param value
    Specifies the `<code>TagValue</code>`, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`.

```
"beanStyleGetterMethodName" : "getKey",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "Key",
"c2jShape" : "TagKey",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.
When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String[])}. @n@return Returns a reference to this object so that method calls can be chained together.@n@see #key(String)",
"deprecated" : false,
"documentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>
@param key Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>
@return Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Key",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>
@param key Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"Value" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "Value",
  "c2jShape" : "TagValue",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>.</p>
@param value a consumer that will call methods on <code>String.Builder</code> avoiding the need to create one manually via <code>String.Builder()</code>. When the <code>Consumer</code> completes, <code>String.Builder#build()</code> is called immediately and its result is passed to <code>#value(String)</code>.
@return Returns a reference to this object so that method calls can be chained together.
@see #value(String)"
}
Specifies the `<code>TagValue</code>`, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`.

```java
public String value;

public static TagValue value(String value) {
    return new TagValue(value);
}
```

@Param
@return Returns a reference to this object so that method calls can be chained together.

`TagValue` specifies the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of `<code>project : Trinity</code>` and `<code>cost-center : Trinity</code>`.

```java
public static TagValue value(String value) {
    return new TagValue(value);
}
```
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>. Parameters are passed as name value pairs to <code>set</code> and <code>add</code> methods respectively. The value is the value assigned to the tag key. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>

@<param value Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
}

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getKey",
  "beanStyleSetterMethodName" : "setKey",
  "c2jName" : "Key",
  "c2jShape" : "TagKey",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they are attached.<code>project : Trinity</code> and <code>cost-center : Trinity</code></p>

This is a convenience that creates an instance of the <code>String.Builder</code> avoiding the need to create one manually via <code>String#builder()</code>. When the <code>Consumer</code> completes, <code>String.Builder#build()</code> is called immediately and its result is passed to <code>key(String)</code>. When a consumer is used to create a tag key, its result is passed to the <code>TagKey</code> method. Returns a reference to this object so that method calls can be chained together.<code>key(String)</code>

"deprecated" : false,
"documentation": "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for
the Elasticsearch domain to which they are attached.</p>",
"eventType": null,
"easyEnum": false,
"easyPayload": false,
"fluentEasyEnumGetterMethodName": null,
"fluentEasyEnumSetterMethodName": null,
"fluentGetterMethodName": "key",
"fluentSetterDocumentation": "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for
the Elasticsearch domain to which they are attached.</p>
@param key Specifies the 
<code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they
are attached.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName": "key",
"getterDocumentation": "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for
the Elasticsearch domain to which they are attached.</p>
@return Specifies the 
<code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they
are attached."
getterModel": {
"returnType": "String",
"documentation": null
},
"http": {
"additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Key",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Key",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Key",
"setterDocumentation": "<p>Specifies the <code>TagKey</code>, the name of the tag. Tag keys must be unique for
the Elasticsearch domain to which they are attached.</p>
@param key Specifies the 
<code>TagKey</code>, the name of the tag. Tag keys must be unique for the Elasticsearch domain to which they
Springer
value Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "value",
"getterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code></p>

@return Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Value",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code></p>

@param value Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code>

"setterMethodName" : "setValue",
"setterModel" : {

"variableDeclarationType" : "String",
"variableName" : "value",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : "<p>Specifies the <code>TagValue</code>, the value assigned to the corresponding tag key. Tag values can be null and do not have to be unique in a tag set. For example, you can have a key value pair in a tag set of <code>project : Trinity</code> and <code>cost-center : Trinity</code></p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Key", "Value" ],
"shapeName" : "Tag",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "Tag",
  "variableName" : "tag",
  "variableType" : "Tag",
  "documentation" : null,
  "simpleType" : "Tag",
  "variableSetterType" : "Tag"
},
"wrapper" : false
},
"UpdateElasticsearchDomainConfigRequest" : {
  "c2jName" : "UpdateElasticsearchDomainConfigRequest",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  }
}
Container for the parameters to the <code>UpdateElasticsearchDomain</code> operation. Specifies the type and number of instances in the domain cluster.

The name of the Elasticsearch domain that you are updating.

This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, the result is passed to the method that will call methods on a consumer that will call methods on a parameter that can be chained together.

The name of the Elasticsearch domain that you are updating.
"returnType" : "String",
"documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : "uri",
 "marshallLocation" : "PATH",
 "marshallLocationName" : "DomainName",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "DomainName",
 "uri" : true
},
 "idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
 "listModel" : null,
 "map" : false,
 "mapModel" : null,
 "marshallingType" : "STRING",
 "name" : "DomainName",
 "setterDocumentation" : "<p>The name of the Elasticsearch domain that you are updating. </p>
@param domainName The name of the Elasticsearch domain that you are updating.",
 "setterMethodName" : "setDomainName",
 "setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "domainName",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
 },
 "simple" : true,
 "timestampFormat" : null,
 "variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "domainName",
 "variableType" : "String",
 "documentation" : "<p>The name of the Elasticsearch domain that you are updating. </p>
",
 "simpleType" : "String",
 "variableSetterType" : "String"
"defaultConsumerFluentSetterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>"},

"getterModel" : {
  "returnType" : "ElasticsearchClusterConfig",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchClusterConfig",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchClusterConfig",
  "uri" : false
},

"deprecated" : false,

"documentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>"

"enumType" : null,

"eventHeader" : false,

"eventPayload" : false,

"fluentEnumGetterMethodName" : null,

"fluentEnumSetterMethodName" : null,

"fluentGetterMethodName" : "elasticsearchClusterConfig",

"fluentSetterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>"

"getterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>"

"getterModel" : {
  "returnType" : "ElasticsearchClusterConfig",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ElasticsearchClusterConfig",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ElasticsearchClusterConfig",
  "uri" : false
}
"setterDocumentation": "The type and number of instances to instantiate for the domain cluster.
@param elasticsearchClusterConfig The type and number of instances to instantiate for the domain cluster.
",

"setterMethodName": "setElasticsearchClusterConfig",

"setterModel": {
"variableDeclarationType": "ElasticsearchClusterConfig",
"variableName": "elasticsearchClusterConfig",
"variableType": "ElasticsearchClusterConfig",
"documentation": null,
"simpleType": "ElasticsearchClusterConfig",
"variableSetterType": "ElasticsearchClusterConfig"
},

"simple": false,

"timestampFormat": null,

"variable": {
"variableDeclarationType": "ElasticsearchClusterConfig",
"variableName": "elasticsearchClusterConfig",
"variableType": "ElasticsearchClusterConfig",
"documentation": "The type and number of instances to instantiate for the domain cluster.
",
"simpleType": "ElasticsearchClusterConfig",
"variableSetterType": "ElasticsearchClusterConfig"
},

"xmlNameSpaceUri": null

},

"beanStyleGetterMethodName": "getEbsOptions",

"beanStyleSetterMethodName": "setEbsOptions",

"c2jName": "EBSOptions",

"c2jShape": "EBSOptions",

"defaultConsumerFluentSetterDocumentation": "Specify the type and size of the EBS volume that you want to use."

\nThis is a convenience that creates an instance of the \{@link EBSOptions.Builder\} avoiding the need to create one manually via \{@link EBSOptions#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link EBSOptions.Builder#build()\} is called immediately and its result is passed to \{@link EbsOptions(EBSOptions)\}.\n\n@see #ebsOptions(EBSOptions)"

"deprecated": false,

"documentation": "Specify the type and size of the EBS volume that you want to use."

"enumType": null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",
"fluentSetterDocumentation" : "Specify the type and size of the EBS volume that you want to use.\n@param ebsOptions Specify the type and size of the EBS volume that you want to use.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "ebsOptions",
"getterDocumentation" : "Specify the type and size of the EBS volume that you want to use.\n@return Specify the type and size of the EBS volume that you want to use.",
"getterModel" : {
 "returnType" : "EBSOptions",
 "documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "EBSOptions",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "EBSOptions",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"setterDocumentation" : "Specify the type and size of the EBS volume that you want to use.\n@param ebsOptions Specify the type and size of the EBS volume that you want to use.\n@return Specify the type and size of the EBS volume that you want to use."
"setterMethodName" : "setEbsOptions",
"setterModel" : {
 "variableDeclarationType" : "EBSOptions",
 "variableName" : "ebsOptions",
 "variableType" : "EBSOptions",
 "documentation" : null,
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "EBSOptions",
"variableName" : "ebsOptions",
"variableType" : "EBSOptions",
"documentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>",
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getSnapshotOptions",
"beanStyleSetterMethodName" : "setSnapshotOptions",
"c2jName" : "SnapshotOptions",
"c2jShape" : "SnapshotOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>This is a convenience that creates an instance of the { @link SnapshotOptions.Builder} avoiding the need to create one manually via { @link SnapshotOptions#builder()}.

When the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link SnapshotOptionsSnapshotOptionsBuilder#build()}.

@returns a consumer that will call methods on { @link SnapshotOptionsSnapshotOptionsBuilder}.

@see #snapshotOptions(SnapshotOptions)",
"deprecated" : false,
"documentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "null,
"fluentEnumSetterMethodName" : "null,
"fluentGetterMethodName" : "snapshotOptions",
"fluentSetterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>returns a reference to this object so that method calls can be chained together.

@returns a reference to this object so that method calls can be chained together.

@see #snapshotOptions(SnapshotOptions)",
"deprecated" : false,
"documentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>"
}

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"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "SnapshotOptions",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "SnapshotOptions",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"setterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
@param snapshotOptions Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours."
,"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
   "variableDeclarationType" : "SnapshotOptions",
   "variableName" : "snapshotOptions",
   "variableType" : "SnapshotOptions",
   "documentation" : null,
   "simpleType" : "SnapshotOptions",
   "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "SnapshotOptions",
   "variableName" : "snapshotOptions",
   "variableType" : "SnapshotOptions",
   "documentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
"simpleType" : "SnapshotOptions",
   "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null,
},
"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCOptions",
"defaultConsumerFluentSetterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

This is a convenience that creates an instance of the VPCOptions avoiding the need to create one manually via VPCOptions#builder().

When the [VPCOptions#builder()] completes, [VPCOptions#vpcOptions()] is called immediately and its result is passed to the consumer that will call methods on VPCOptions.Builder.

@return Returns a reference to this object so that method calls can be chained together.
@see #vpcOptions(VPCOptions)",
"deprecated" : false,
"documentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in VPC Endpoints for Amazon Elasticsearch Service Domains.

"threeLines" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in VPC Endpoints for Amazon Elasticsearch Service Domains.

When the [VPCOptions#builder()] completes, [VPCOptions#vpcOptions()] is called immediately and its result is passed to the consumer that will call methods on VPCOptions.Builder.

@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in VPC Endpoints for Amazon Elasticsearch Service Domains.

When the [VPCOptions#builder()] completes, [VPCOptions#vpcOptions()] is called immediately and its result is passed to the consumer that will call methods on VPCOptions.Builder.

@return Returns a reference to this object so that method calls can be chained together.
"getterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in VPC Endpoints for Amazon Elasticsearch Service Domains.

When the [VPCOptions#builder()] completes, [VPCOptions#vpcOptions()] is called immediately and its result is passed to the consumer that will call methods on VPCOptions.Builder.

@return Returns a reference to this object so that method calls can be chained together.
"getterModel" : {
  "returnType" : "VPCOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "VPCOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "VPCOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"setterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in \(<i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\)</param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in \(<i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\)
",
"setterMethodName" : "setVpcOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see \(<a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in \(<i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>\)
"}
Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. This is a convenience that creates an instance of the {@link CognitoOptions.Builder} avoiding the need to create one manually via {@link CognitoOptions#builder()}. When the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to a consumer that will call methods on {@link CognitoOptions.Builder}. Returns a reference to this object so that method calls can be chained together.

```java
@see #cognitoOptions(CognitoOptions)
```

### CognitoOptions

```java
public class CognitoOptions {
    // CognitoOptions class implementation...
}
```

### CognitoOptions.Builder

```java
public class CognitoOptions.Builder {
    // CognitoOptions.Builder class implementation...
}
```

## CognitoOptions Documentations

### SimpleType: VPCOptions

```java
public class VPCOptions {
    // VPCOptions class implementation...
}
```

### BeanStyle Getter Method: getCognitoOptions

```java
public CognitoOptions getCognitoOptions() {
    // Implementation...
}
```

### BeanStyle Setter Method: setCognitoOptions

```java
public void setCognitoOptions(CognitoOptions cognitoOptions) {
    // Implementation...
}
```

## CognitoOptions Summary

- **CognitoOptions**
  - A class for specifying Cognito user and identity pools for Kibana authentication.
  - It includes methods for getting and setting the Cognito options.
  - Provides convenience for creating an instance without manual construction.
  - Methods can be chained together for method calls.

## Configuration Example

```java
CognitoOptions cognitoOptions = new CognitoOptions.Builder()
    .setCognitoOptionsBuilder()
    .build();
```

## Related APIs

- **VPCOptions**
  - A simple type used in network management.

## Documentation Resources

- [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html)

## Further Information

For more information on Kibana and Cognito authentication, refer to the [Amazon Cognito Authentication for Kibana](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html) documentation.
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CognitoOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CognitoOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"ListModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"setterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>
@param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.

"setterMethodName" : "setCognitoOptions",
"setterModel" : {  
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {  
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>"
"simpleType": "CognitoOptions",
"variableSetterType": "CognitoOptions"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getAdvancedOptions",
"beanStyleSetterMethodName": "setAdvancedOptions",
"c2jName": "AdvancedOptions",
"c2jShape": "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>
This is a convenience that creates an instance of the [Map<String,String>.Builder] avoiding the need to create one manually via [Map<String,String>#builder()]. When the [@link Consumer] completes, [Map<String,String>.Builder] is called immediately and its result is passed to [Map<String,String>#advancedOptions(Map<String,String>)]

*param advancedOptions a consumer that will call methods on [Map<String,String>.Builder] and return Returns a reference to this object so that method calls can be chained together.*

@see #advancedOptions(Map<String,String>)",
"deprecated": false,
"documentation": "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "advancedOptions",
"fluentSetterDocumentation": "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>
Attempts to modify the collection returned by this method
"getterDocumentation": "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>"
will result in an UnsupportedOperationException.

@return Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options">Configuration Advanced Options</a> for more information.

"getterModel" : {
  "returnType" : "java.util.Map<String,String>",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "AdvancedOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "AdvancedOptions",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : true,

"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object. This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #key(String)}. @param key a consumer that will call methods on { @link String.Builder}.

@returns a reference to this object so that method calls can be chained together.@see #key(String)",
    "deprecated" : false,
    "documentation" : "",
  }
}
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "key",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.
@return The value of the Key property for this object.",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "key",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "key",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.
@param key The new value for the Key property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String"
Sets the value of the Value property for this object.

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.Builder(builder()). When the Consumer completes, String.Builder.build() is called immediately and its result is passed to value(String). param value a consumer that will call methods on String.Builder: return Returns a reference to this object so that method calls can be chained together.

Sets the value of the Value property for this object.

The new value for the Value property for this object: return Returns a reference to this object so that method calls can be chained together.

"getterDocumentation": "Returns the value of the Value property for this object.: return The value of the Value property for this object.

getterModel": {
  "returnType": "String",
  "documentation": null
}.

http": {
  "additionalMarshallingPath": null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object.\n\n@param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
"marshallingType": "MAP",
"name": "AdvancedOptions",
"setterDocumentation": "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>

@param advancedOptions Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.
"
"setterMethodName": "setAdvancedOptions",
"setterModel": {
  "variableDeclarationType": "java.util.Map<String,String>",
  "variableName": "advancedOptions",
  "variableType": "java.util.Map<String,String>",
  "documentation": null,
  "simpleType": "Map<String,String>",
  "variableSetterType": "java.util.Map<String,String>
  
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.Map<String,String>",
  "variableName": "advancedOptions",
  "variableType": "java.util.Map<String,String>",
  "documentation": "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>

"simpleType": "Map<String,String>",
"variableSetterType": "java.util.Map<String,String>
  
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getAccessPolicies",
"beanStyleSetterMethodName": "setAccessPolicies",
"c2jName": "AccessPolicies",
"c2jShape": "PolicyDocument",
"defaultConsumerFluentSetterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #accessPolicies(String)}. When a consumer that will call methods on {@link String.Builder} returns a reference to this object so that method calls can be chained together."@see #accessPolicies(String)";
"deprecated" : false,
"documentation" : "<p>IAM access policy as a JSON-formatted string.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {
"variableDeclarationType" : "String",
"setterMethodDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodDocumentation" : "<p>IAM access policy as a JSON-formatted string.
"variableName": "accessPolicies",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"variableDeclarationType": "String",
"variableName": "accessPolicies",
"variableType": "String",
"documentation": "<p>IAM access policy as a JSON-formatted string.</p>",
"simpleType": "String",
"variableSetterType": "String"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getLogPublishingOptionsAsStrings",
"beanStyleSetterMethodName": "setLogPublishingOptionsWithStrings",
"c2jName": "LogPublishingOptions",
"c2jShape": "LogPublishingOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>

This is a convenience that creates an instance of the {@link Map<String,LogPublishingOption>.Builder} avoiding the need to create one manually via {@link Map<String,LogPublishingOption>#builder()}. When the {@link Consumer} completes, {@link Map<String,LogPublishingOption>#builder()#build()} is called immediately and its result is passed to {@link Map<String,LogPublishingOption>AsStrings(Map<String,LogPublishingOption>)}.

@param logPublishingOptions a consumer that will call methods on {@link Map<String,LogPublishingOption>.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)",
"deprecated": false,
"documentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>",
"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "logPublishingOptions",
"fluentEnumSetterMethodName": "logPublishingOptions",
"fluentGetterMethodName": "logPublishingOptionsAsStrings",
"fluentSetterDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Map of
<code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.

```
"getterModel" : {
    "returnType" : "java.util.Map<String,LogPublishingOption>",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "LogPublishingOptions",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "LogPublishingOptions",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
    "implType" : "java.util.HashMap",
    "interfaceType" : "java.util.Map",
    "keyLocationName" : "key",
    "keyModel" : {
        "beanStyleGetterMethodName" : "getKeyAsString",
        "beanStyleSetterMethodName" : "setKey",
        "c2jName" : "key",
        "c2jShape" : "LogType",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object. This is a convenience that creates an instance of the @link String.Builder\n\nWhen the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link String#builder()
\n@return Returns a reference to this object so that method calls can be chained together.\n@see #key(String)",
        "deprecated" : false,
        "documentation" : "",
        "enumType" : "LogType",
        "eventHeader" : false,
        "eventPayload" : false,
    }
}
```
"fluentEnumGetterMethodName" : "key",
"fluentEnumSetterMethodName" : "key",
"fluentGetterMethodName" : "keyAsString",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n@param key The new value for the Key property for this object.\n@return Returns a reference to this object so that method calls can be chained together.\n@see LogType",
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.\nIf the service returns an enum value that is not available in the current SDK version, { @link #key } will return { @link LogType#UNKNOWN_TO_SDK_VERSION }. The raw value returned by the service is available from { @link #keyAsString }\n@return The value of the Key property for this object.\n@see LogType",
"getterModel" : {
   "returnType" : "String",
   "documentation" : null
}
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "key",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "key",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n@param key The new value for the Key property for this object.\n@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "key",
   "variableType" : "String",
   "documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption",
  "defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object. This is a convenience that creates an instance of the { @link LogPublishingOption.Builder} avoiding the need to create one manually via { @link LogPublishingOption.Builder#builder()}, When the { @link Consumer} completes, { @link LogPublishingOption.Builder#build()} is called immediately and its result is passed to { @link LogPublishingOption.Builder#build()}.
@returns a reference to this object so that method calls can be chained together.
@see #value(LogPublishingOption)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.
  This new value for the Value property for this object.
@returns a reference to this object so that method calls can be chained together.
".
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.
@returns The value of the Value property for this object.
"
  "getterModel" : {
    "returnType" : "LogPublishingOption",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
  }
}
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "value",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "value",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Value",
"setterDocumentation": "Sets the value of the Value property for this object.
\n@\n@param value The new value for the Value property for this object.",
"setterMethodName": "setValue",
"setterModel": {
  "variableDeclarationType": "LogPublishingOption",
  "variableName": "value",
  "variableType": "LogPublishingOption",
  "documentation": null,
  "simpleType": "LogPublishingOption",
  "variableSetterType": "LogPublishingOption"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "LogPublishingOption",
  "variableName": "value",
  "variableType": "LogPublishingOption",
  "documentation": "",
  "simpleType": "LogPublishingOption",
  "variableSetterType": "LogPublishingOption"
},
"xmlNameSpaceUri": null
},
"entryType": "Map.Entry<String, LogPublishingOption>",
"templateType": "java.util.Map<String,LogPublishingOption>"
"setterDocumentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.,
"setterMethodName": "setLogPublishingOptionsWithStrings",
"setterModel": {
  "variableDeclarationType": "java.util.Map<String,LogPublishingOption>",
  "variableName": "logPublishingOptions",
  "variableType": "java.util.Map<String,LogPublishingOption>",
  "documentation": null,
  "simpleType": "Map<String,LogPublishingOption>",
  "variableSetterType": "java.util.Map<String,LogPublishingOption>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.Map<String,LogPublishingOption>",
  "variableName": "logPublishingOptions",
  "variableType": "java.util.Map<String,LogPublishingOption>",
  "documentation": "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>
@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.",
  "simpleType": "Map<String,LogPublishingOption>",
  "variableSetterType": "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri": null
},
"membersAsMap": {
  "AccessPolicies": {
    "beanStyleGetterMethodName": "getAccessPolicies",
    "beanStyleSetterMethodName": "setAccessPolicies",
    "c2jName": "AccessPolicies",
    "c2jShape": "PolicyDocument",
    "defaultConsumerFluentSetterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link accessPolicies(String)}\.\n@see accessPolicies(String)",
    "deprecated": false,
    "documentation": "<p>IAM access policy as a JSON-formatted string.</p>",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,

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fluentGetterMethodName" : "accessPolicies",
"fluentSetterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "accessPolicies",
"getterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@return IAM access policy as a JSON-formatted string.",
"getterModel" : {

"returnType" : "String",
"documentation" : null
},
"http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AccessPolicies",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AccessPolicies",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "AccessPolicies",
"setterDocumentation" : "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return IAM access policy as a JSON-formatted string.",
"setterMethodName" : "setAccessPolicies",
"setterModel" : {

"variableDeclarationType" : "String",
"variableName" : "accessPolicies",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
The `advancedOptions` method modifies the advanced option to allow references to indices in an HTTP request body. Must be `false` when configuring access to individual sub-resources. By default, the value is `true`. See [Configuration Advanced Options](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options) for more information. Attempts to modify the collection returned by this method will result in an `UnsupportedOperationException`. When configuring access to individual sub-resources, the value is `false`. See [Configuration Advanced Options](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options) for more information.
is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via
{@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called
immediately and its result is passed to {@link #key(String)}. Returns a reference to this object so that method calls can be chained
together. @see #key(String).
"setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object.",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build\} is called immediately and its result is passed to \{@link #value(String)\}.\n\n@see #value(String)\n
@deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "value",
  "fluentSetterDocumentation" : "Sets the value of the Value property for this object.

This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build\} is called immediately and its result is passed to \{@link #value(String)\}.\n\n@see #value(String)",
  "fluentSetterMethodName" : "value",
  "getterDocumentation" : "Returns the value of the Value property for this object.\n\n@return The value of the
Value property for this object.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "value",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "Value",

"setterDocumentation" : "Sets the value of the Value property for this object.

@param value The new value for the Value property for this object.

"setterMethodName" : "setValue",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : "",
}
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>",
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"setterDocumentation" : "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be &lt;code&gt;false&lt;/code&gt; when configuring access to individual sub-resources. By default, the value is &lt;code&gt;true&lt;/code&gt;.&lt;/p&gt;&lt;param name="advancedOptions"&gt;Modifies the advanced option to allow references to indices in an HTTP request body. Must be &lt;code&gt;false&lt;/code&gt; when configuring access to individual sub-resources. By default, the value is &lt;code&gt;true&lt;/code&gt;.&lt;/param&gt;&lt;a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.

"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : "&lt;p&gt;Modifies the advanced option to allow references to indices in an HTTP request body. Must be &lt;code&gt;false&lt;/code&gt; when configuring access to individual sub-resources. By default, the value is &lt;code&gt;true&lt;/code&gt;.&lt;/p&gt;

"setterMethodName" : "setAdvancedOptions",
"beanStyleGetterMethodName" : "getCognitoOptions",
"beanStyleSetterMethodName" : "setCognitoOptions",
"c2jName" : "CognitoOptions",
"c2jShape" : "CognitoOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>

This is a convenience that creates an instance of the {@link CognitoOptions.Builder} avoiding the need to create one manually via {@link CognitoOptions#builder()}. 

When the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to the consumer that will call methods on a consumer that will call methods on <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-options.html" target="_blank">CognitoOptions.CognitoOptions</a>.

@see #cognitoOptions(CognitoOptions)

@returns Returns a reference to this object so that method calls can be chained together.

@see #cognitoOptions(CognitoOptions)

"deprecated" : false,

"documentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cognitoOptions",
"fluentSetterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>

@returns Returns a reference to this object so that method calls can be chained together.

@see #cognitoOptions(CognitoOptions)

@returns Returns a reference to this object so that method calls can be chained together.

"getterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>

@returns Returns a reference to this object so that method calls can be chained together.

@see #cognitoOptions(CognitoOptions)

@returns Returns a reference to this object so that method calls can be chained together.

"getterModel" : {
    "returnType" : "CognitoOptions",
    "documentation" : null
  },
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "CognitoOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "CognitoOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "CognitoOptions",
"setterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>. </p>
@param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
"DomainName" : {
  "beanStyleGetterMethodName" : "getDomainName",
  "beanStyleSetterMethodName" : "setDomainName",
...
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you are updating. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String.Builder\}). When the \{@link Consumer\} completes, \{@link String.Builder\}.build() is called immediately and its result is passed to \{@link #domainName(String)\}.\n\n@parameter\n
\n@return A reference to this object so that method calls can be chained together.\n\n@see #domainName(String)",

"deprecated" : false,

"documentation" : "The name of the Elasticsearch domain that you are updating.\n\n@parameter\n
\n@return A reference to this object so that method calls can be chained together."

,"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "The name of the Elasticsearch domain that you are updating.\n\n@parameter\n
\n@return The name of the Elasticsearch domain that you are updating."

,"fluentSetterMethodName" : "domainName",

"getterDocumentation" : "The name of the Elasticsearch domain that you are updating.\n\n@return The name of the Elasticsearch domain that you are updating."

,"getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : "uri",
"marshallLocation" : "PATH",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : true
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>The name of the Elasticsearch domain that you are updating. </p>
@param domainName The name of the Elasticsearch domain that you are updating.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the Elasticsearch domain that you are updating. </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"EBSOptions" : {
  "beanStyleGetterMethodName" : "getEbsOptions",
  "beanStyleSetterMethodName" : "setEbsOptions",
  "c2jName" : "EBSOptions",
  "c2jShape" : "EBSOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
This is a convenience that creates an instance of the \{@link EBSOptions.Builder\} avoiding the need to create one manually via \{@link EBSOptions#builder()\}. \nWhen the \{@link Consumer\} completes, \{@link EBSOptions.Builder#build()\} is called immediately and its result is passed to \{@link #ebsOptions(EBSOptions)\}. \n@see #ebsOptions(EBSOptions)"
,  
  "deprecated" : false,
  "documentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "ebsOptions",
  "fluentSetterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
@see #ebsOptions(EBSOptions)\n@return Returns a reference to this object so that method calls can be chained together.\n@see #ebsOptions(EBSOptions)"
,  
  "fluentType" : false,
  "parameterType" : "String",
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "ebsOptions",
    "variableType" : "String",
    "documentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "xmlNameSpaceUri" : null
}
reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "ebsOptions",
"getterDocumentation" : "&lt;p&gt;Specify the type and size of the EBS volume that you want to use.
&lt;/p&gt;\n"@return Specify the type and size of the EBS volume that you want to use.

"getterModel" : {
"returnType" : "EBSOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "EBSOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "EBSOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"ListModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "EBSOptions",
"setterDocumentation" : "&lt;p&gt;Specify the type and size of the EBS volume that you want to use.
&lt;/p&gt;\n"@param ebsOptions Specify the type and size of the EBS volume that you want to use.

"setterModelName" : "setEbsOptions",
"setterModel" : {
"variableDeclarationType" : "EBSOptions",
"variableName" : "ebsOptions",
"variableType" : "EBSOptions",
"documentation" : null,
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "EBSOptions"}
"variableName" : "ebsOptions",
"variableType" : "EBSOptions",
"documentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>",
"simpleType" : "EBSOptions",
"variableSetterType" : "EBSOptions"
},
"xmlNameSpaceUri" : null
},
"ElasticsearchClusterConfig" : {
  ".beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
  "beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
  "c2jName" : "ElasticsearchClusterConfig",
  "c2jShape" : "ElasticsearchClusterConfig",
  "defaultConsumerFluentSetterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>
  This is a convenience that creates an instance of the [link ElasticsearchClusterConfig.Builder] avoiding the need to create one manually via [link ElasticsearchClusterConfig#builder()].

  When the [link Consumer] completes, [link ElasticsearchClusterConfig.Builder#build()] is called immediately and its result is passed to [link ElasticsearchClusterClusterConfig(ElasticsearchClusterConfig)].

  @param elasticsearchClusterConfig a consumer that will call methods on [link ElasticsearchClusterConfig.Builder]

  @return Returns a reference to this object so that method calls can be chained together.
  @see #elasticsearchClusterConfig(ElasticsearchClusterConfig)",
  "deprecated" : false,
  "documentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>",
  "enumType" : null,
  "eventIdHeader" : false,
  "eventIdPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "elasticsearchClusterConfig",
  "fluentSetterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>
  @param elasticsearchClusterConfig The type and number of instances to instantiate for the domain cluster.

  @return Returns a reference to this object so that method calls can be chained together.
  
  @see ElasticsearchClusterClusterConfig(ElasticsearchClusterConfig)",
  "getterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.

  @param elasticsearchClusterConfig The type and number of instances to instantiate for the domain cluster.

  @return The type and number of instances to instantiate for the domain cluster.
  
  @see ElasticsearchClusterClusterConfig(ElasticsearchClusterConfig)",
  "getterModel" : {
    "returnType" : "ElasticsearchClusterConfig",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"setterDocumentation" : "The type and number of instances to instantiate for the domain cluster.

@\param ElasticsearchClusterConfig The type and number of instances to instantiate for the domain cluster.
",
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : null,
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : "The type and number of instances to instantiate for the domain cluster."
},
"xmlNameSpaceUri" : null
},
"LogPublishingOptions" : {
  "beanStyleGetterMethodName" : "getLogPublishingOptionsAsStrings",
  "beanStyleSetterMethodName" : "setLogPublishingOptionsWithStrings",
  "c2jName" : "LogPublishingOptions",
  "c2jShape" : "LogPublishingOptions",
  "defaultConsumerFluentSetterDocumentation" : "Map of LogType and LogPublishingOption, each containing options to publish a given type of Elasticsearch log. This is a convenience that creates an instance of the Map<String,LogPublishingOption>.Builder"
avoiding the need to create one manually via \{@link Map\<String,LogPublishingOption\>#builder()\}. When the \{@link Consumer\} completes, \{@link Map\<String,LogPublishingOption\>.Builder#build()\} is called immediately and its result is passed to \{@link #logPublishingOptionsAsStrings\((Map\<String,LogPublishingOption\>))\}. 

@see #logPublishingOptionsWithStrings\((Map\<String,LogPublishingOption\>)\)

"deprecated" : false,
"documentation" : "Map of \<>LogType\< and \<>LogPublishingOption\<, each containing options to publish a given type of Elasticsearch log.

"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "logPublishingOptions",
"fluentEnumSetterMethodName" : "logPublishingOptions",
"fluentGetterMethodName" : "logPublishingOptionsAsStrings",
"fluentSetterDocumentation" : "Map of \<>LogType\< and \<>LogPublishingOption\<, each containing options to publish a given type of Elasticsearch log.

"getterDocumentation" : "Map of \<>LogType\< and \<>LogPublishingOption\<, each containing options to publish a given type of Elasticsearch log.

"getterModel" : {
"returnType" : "java.util.Map\<String,LogPublishingOption\>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "LogPublishingOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "LogPublishingOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
"implType" : "java.util.HashMap",
"interfaceType" : "java.util.Map",
"keyLocationName" : "key",
"keyModel" : {
"beanStyleGetterMethodName" : "getKeyAsString",
"beanStyleSetterMethodName" : "setKey",
"c2jName" : "key",
"c2jShape" : "LogType",
"defaultValueFluentSetterDocumentation" : "Sets the value of the Key property for this object.

This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder}().

When the { @link Consumer} completes, { @link String.Builder#build}() is called immediately and its result is passed to { @link #keyAsString(String)}.

@param key a consumer that will call methods on { @link String.Builder}

@returns Returns a reference to this object so that method calls can be chained together.

@see #key(String)"
,
"deprecated" : false,
"documentation" : "",
"enumType" : "LogType",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "key",
"fluentEnumSetterMethodName" : "key",
"fluentGetterMethodName" : "keyAsString",
"fluentSetterDocumentation" : "Sets the value of the Key property for this object.

The new value for the Key property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

@see LogType"
,
"fluentSetterMethodName" : "key",
"getterDocumentation" : "Returns the value of the Key property for this object.

If the service returns an enum value that is not available in the current SDK version, { @link #key} will return { @link LogType#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from { @link #keyAsString}.

@returns The value of the Key property for this object.

@see LogType"
,
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n\n@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "LogPublishingOption",
  "defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.\n\nThis is a convenience that creates an instance of the [{@link LogPublishingOption.Builder}] avoiding the need to create one manually via [{@link LogPublishingOption#builder()}).\n\nWhen the {@link Consumer}
completes, \{@link LogPublishingOption.Builder#build()\} is called immediately and its result is passed to \{@link LogPublishingOption.Builder\}. \n\n@returns Returns a reference to this object so that method calls can be chained together. \n\n@see \#value(LogPublishingOption) 

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object. \n\n@param value The new value for the Value property for this object. \n\n@return Returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object. \n\n@return The value of the Value property for this object."

"getterModel" : {
  "returnType" : "LogPublishingOption",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "value",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "value",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object. \n\n@param value The new
value for the Value property for this object.

"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null,

"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"setterDocumentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>\n@param logPublishingOptions Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.",

"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : null,
  "simpleType" : "Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>",
  "variableName" : "logPublishingOptions",
  "variableType" : "java.util.Map<String,LogPublishingOption>",
  "documentation" : "<p>Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>",

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"simpleType" : "Map<String,LogPublishingOption>", "variableSetterType" : "java.util.Map<String,LogPublishingOption>",
"xmlnsSpaceUri" : null,

"SnapshotOptions" : {
  "beanStyleGetterMethodName" : "getSnapshotOptions",
  "beanStyleSetterMethodName" : "setSnapshotOptions",
  "c2jName" : "SnapshotOptions",
  "c2jShape" : "SnapshotOptions",
  "defaultConsumerFluentSetterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. This is a convenience that creates an instance of the { @link SnapshotOptions.Builder} avoiding the need to create one manually via { @link SnapshotOptions#builder()}. When the { @link Consumer} completes, { @link SnapshotOptions.Builder#build()} is called immediately and its result is passed to { @link SnapshotOptions(SnapshotOptions)}. @param snapshotOptions a consumer that will call methods on { @link SnapshotOptions.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #snapshotOptions(SnapshotOptions)",
  "deprecated" : false,
  "documentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "snapshotOptions",
  "fluentSetterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
  @return Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.
  @return Returns a reference to this object so that method calls can be chained together."
  "getterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. 
  @return Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.
 ",
  "getterModel" : {
    "returnType" : "SnapshotOptions",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SnapshotOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SnapshotOptions",
"uri" : false,

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "SnapshotOptions",
"setterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. &lt;/p&gt;&lt;p&gt;\@param snapshotOptions Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.\&lt;/p&gt;",

"setterMethodName" : "setSnapshotOptions",
"setterModel" : {

"variableDeclarationType" : "SnapshotOptions",
"variableName" : "snapshotOptions",
"variableType" : "SnapshotOptions",
"documentation" : null,
"simpleType" : "SnapshotOptions",
"variableSetterType" : "SnapshotOptions"

},

"simple" : false,
"timestampFormat" : null,
"variable" : {

"variableDeclarationType" : "SnapshotOptions",
"variableName" : "snapshotOptions",
"variableType" : "SnapshotOptions",
"documentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. &lt;/p&gt;",

"simpleType" : "SnapshotOptions",
"variableSetterType" : "SnapshotOptions"

},

"xmlNameSpaceUri" : null

},

"VPCOptions" : {

"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCOptions",

"defaultConsumerFluentSetterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see &lt;a href="http://docs.aws.amazon.com/elasticsearch-

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http://docs.aws.amazon.com/elasticsearch-
Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>

This is a convenience that creates an instance of the \{@link VPCOptions.Builder\} avoiding the need to create one manually via \{@link VPCOptions#builder()\}. When the \{@link Consumer\} completes, \{@link VPCOptions.Builder#build()\} is called immediately and its result is passed to \{@link #vpcOptions(VPCOptions)\}. Returns a reference to this object so that method calls can be chained together.

```
@deprecated
public VPCOptions vpcOptions(Consumer<VPCOptions> vpcOptions)
```

Options to specify the subnets and security groups for VPC endpoint. For more information, see [Creating a VPC in VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc) in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>

```
return VPCOptions.vpcOptions(vpcOptions)
```

Options to specify the subnets and security groups for VPC endpoint. For more information, see [Creating a VPC in VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc) in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.
"marshallLocationName": "VPCOptions",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "VPCOptions",
"uri": false,
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "VPCOptions",

"setterDocumentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>

@<p>\n@param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>",

"setterMethodName": "setVpcOptions",
"setterModel": {
  "variableDeclarationType": "VPCOptions",
  "variableName": "vpcOptions",
  "variableType": "VPCOptions",
  "documentation": null,
  "simpleType": "VPCOptions",
  "variableSetterType": "VPCOptions"
},

"simple": false,
"timestampFormat": null,

"variable": {
  "variableDeclarationType": "VPCOptions",
  "variableName": "vpcOptions",
  "variableType": "VPCOptions",
  "documentation": "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i></p>",

  "simpleType": "VPCOptions",
  "variableSetterType": "VPCOptions"
}
},

"xmlNameSpaceUri": null
}
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "<p>The name of the Elasticsearch domain that you are updating. This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #domainName(String)}. Return is a reference to this object so that method calls can be chained together. See #domainName(String)",
"deprecated" : false,
"documentation" : "The name of the Elasticsearch domain that you are updating.
@see #domainName(String)",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "The name of the Elasticsearch domain that you are updating.
@see #domainName(String)",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "The name of the Elasticsearch domain that you are updating.
@see #domainName(String)",
"getterModel" : {
    "returnType" : "String",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : "uri",
    "marshallLocation" : "PATH",
    "marshallLocationName" : "DomainName",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "DomainName",
    "uri" : true
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "<p>The name of the Elasticsearch domain that you are updating. </p>
@param domainName The name of the Elasticsearch domain that you are updating. ".
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
}
,"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "<p>The name of the Elasticsearch domain that you are updating. </p>
  "simpleType" : "String",
  "variableSetterType" : "String"
}
,"xmlnsSpaceUri" : null
},
},
"beanStyleGetterMethodName" : "getElasticsearchClusterConfig",
"beanStyleSetterMethodName" : "setElasticsearchClusterConfig",
"c2jName" : "ElasticsearchClusterConfig",
"c2jShape" : "ElasticsearchClusterConfig",
"defaultConsumerFluentSetterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster. </p>
  This is a convenience that creates an instance of the @link ElasticsearchClusterConfig.Builder} avoiding the need to create one manually via @link ElasticsearchClusterConfig#builder()}. 

When the @link Consumer completes, @link ElasticsearchClusterConfig.Builder#build() is called immediately and its result is passed to @link ElasticsearchClusterConfig(ElasticsearchClusterConfig)}. 

@see #elasticsearchClusterConfig(ElasticsearchClusterConfig)
@see @param elasticsearchClusterConfig a consumer that will call methods on @link ElasticsearchClusterConfig.Builder}
@see @return Returns a reference to this object so that method calls can be chained together.
@see @param elasticsearchClusterConfig(ElasticsearchClusterConfig)
@see "deprecated" : false,
"documentation" : "<p>The type and number of instances to instantiate for the domain cluster. </p>
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetMethodMethodName" : "elasticsearchClusterConfig",}
"fluentSetterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>
@param elasticsearchClusterConfig The type and number of instances to instantiate for the domain cluster.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "elasticsearchClusterConfig",
"getterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>
@return The type and number of instances to instantiate for the domain cluster.",
"getterModel" : {
"returnType" : "ElasticsearchClusterConfig",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "ElasticsearchClusterConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "ElasticsearchClusterConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "ElasticsearchClusterConfig",
"setterDocumentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>
@param elasticsearchClusterConfig The type and number of instances to instantiate for the domain cluster.",
"setterMethodName" : "setElasticsearchClusterConfig",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchClusterConfig",
"variableName" : "elasticsearchClusterConfig",
"variableType" : "ElasticsearchClusterConfig",
"documentation" : null,
"simpleType" : "ElasticsearchClusterConfig",
"variableSetterType" : "ElasticsearchClusterConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "ElasticsearchClusterConfig",
  "variableName" : "elasticsearchClusterConfig",
  "variableType" : "ElasticsearchClusterConfig",
  "documentation" : "<p>The type and number of instances to instantiate for the domain cluster.</p>",
  "simpleType" : "ElasticsearchClusterConfig",
  "variableSetterType" : "ElasticsearchClusterConfig"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getEbsOptions",
"beanStyleSetterMethodName" : "setEbsOptions",
"c2jName" : "EBSOptions",
"c2jShape" : "EBSOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>\n\nThis is a convenience that creates an instance of the {link EBSOptions.Builder} avoiding the need to create one manually via {link EBSOptions#builder()}.\n\nWhen the {link Consumer} completes, {link EBSOptions.Builder#build()} is called immediately and its result is passed to {link EBSOptions#ebsOptions(EBSOptions)}.\n\n@see #ebsOptions(EBSOptions)",
"deprecated" : false,
"documentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "ebsOptions",
"fluentSetterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
Specify the type and size of the EBS volume that you want to use.\n\nWhen the {link Consumer} completes, {link EBSOptions.Builder#build()} is called immediately and its result is passed to {link EBSOptions#ebsOptions(EBSOptions)}.\n\n@see #ebsOptions(EBSOptions)",
"fluentSetterMethodName" : "ebsOptions",
"getterDocumentation" : "<p>Specify the type and size of the EBS volume that you want to use. </p>
Specify the type and size of the EBS volume that you want to use.\n\nWhen the {link Consumer} completes, {link EBSOptions.Builder#build()} is called immediately and its result is passed to {link EBSOptions#ebsOptions(EBSOptions)}.\n\n@see #ebsOptions(EBSOptions)",
"getterModel" : {
  "returnType" : "EBSOptions",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "EBSOptions",
"setterDocumentation": "<p>Specify the type and size of the EBS volume that you want to use. </p>
@param
ebsOptions Specify the type and size of the EBS volume that you want to use.",
"setterMethodName": "setEbsOptions",
"setterModel": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "ebsOptions",
  "variableType": "EBSOptions",
  "documentation": null,
  "simpleType": "EBSOptions",
  "variableSetterType": "EBSOptions"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "EBSOptions",
  "variableName": "ebsOptions",
  "variableType": "EBSOptions",
  "documentation": "<p>Specify the type and size of the EBS volume that you want to use. </p>",
  "simpleType": "EBSOptions",
  "variableSetterType": "EBSOptions"
},
"xmlNameSpaceUri": null
},
"beanStyleGetterMethodName": "getSnapshotOptions",
"beanStyleSetterMethodName": "setSnapshotOptions",
"c2jName": "SnapshotOptions",
"c2jShape": "SnapshotOptions",
"defaultConsumerFluentSetterDocumentation": "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>

This is a convenience that creates an instance of the \{ @link SnapshotOptions.Builder \} avoiding the need to create one manually via \{ @link SnapshotOptions#builder() \}.\n\nWhen the \{ @link Consumer \} completes, \{ @link
SnapshotOptions.Builder#build() is called immediately and its result is passed to
@link
snapshotOptions(SnapshotOptions)\n@see snapshotOptions(SnapshotOptions)
\n\n@para
snapshotOptions a consumer that will call methods on
@link
SnapshotOptions.Builder\n\n@returns
Returns a reference to this object so that method calls can be chained
together.
\n\n"deprecated" : false,
"documentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "snapshotOptions",
"fluentSetterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
@para
snapshotOptions Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.
@returns
Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "snapshotOptions",
"getterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
@returns
Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.
@returns
Returns a reference to this object
",
"getterModel" : {
"returnType" : "SnapshotOptions",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SnapshotOptions",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SnapshotOptions",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallerType" : "SDK_POJO",
"name" : "SnapshotOptions",
"setterDocumentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>
@param snapshotOptions Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours.",
"setterMethodName" : "setSnapshotOptions",
"setterModel" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : null,
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "SnapshotOptions",
  "variableName" : "snapshotOptions",
  "variableType" : "SnapshotOptions",
  "documentation" : "<p>Option to set the time, in UTC format, for the daily automated snapshot. Default value is <code>0</code> hours. </p>",
  "simpleType" : "SnapshotOptions",
  "variableSetterType" : "SnapshotOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getVpcOptions",
"beanStyleSetterMethodName" : "setVpcOptions",
"c2jName" : "VPCOptions",
"c2jShape" : "VPCOptions",
"defaultConsumerFluentSetterDocumentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>. This is a convenience that creates an instance of the { @link VPCOptions.Builder} avoiding the need to create one manually via { @link VPCOptions#builder()} . When the { @link Consumer} completes, { @link VPCOptions.Builder#build()} is called immediately and its result is passed to { @link VpcOptions(VPCOptions)}. @param vpcOptions a consumer that will call methods on { @link VPCOptions.Builder} @return Returns a reference to this object so that method calls can be chained together.@see #vpcOptions(VPCOptions)"."
"deprecated" : false,
"documentation" : "<p>Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>. This is a convenience that creates an instance of the { @link VPCOptions.Builder} avoiding the need to create one manually via { @link VPCOptions#builder()} . When the { @link Consumer} completes, { @link VPCOptions.Builder#build()} is called immediately and its result is passed to { @link VPCOptions(VPCOptions)}. @param vpcOptions a consumer that will call methods on { @link VPCOptions.Builder} @return Returns a reference to this object so that method calls can be chained together.@see #vpcOptions(VPCOptions)"."
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcOptions",
"fluentSetterMethodName" : "vpcOptions",
"fluentSetterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>. @param vpcOptions Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>. @return Returns a reference to this object so that method calls can be chained together."

"getterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>. @return Options to specify the subnets and security groups for VPC endpoint. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc" target="_blank">Creating a VPC</a> in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

"getterModel" : {
  "returnType" : "VPCOptions",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "VPCOptions",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "VPCOptions",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "VPCOptions",
"setterDocumentation" : "Options to specify the subnets and security groups for VPC endpoint. For more information, see [here](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html#es-creating-vpc)". Creating a VPC in <i>VPC Endpoints for Amazon Elasticsearch Service Domains</i>.

"setterMethodName" : "setVpcOptions",
"setterModel" : {
"variableDeclarationType" : "VPCOptions",
"variableName" : "vpcOptions",
"variableType" : "VPCOptions",
"documentation" : null,
"simpleType" : "VPCOptions",
"variableSetterType" : "VPCOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "VPCOptions",
"variableName" : "vpcOptions",
"variableType" : "VPCOptions",
"documentation" : null,
"simpleType" : "VPCOptions",
"variableSetterType" : "VPCOptions"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getCognitoOptions",
"beanStyleSetterMethodName" : "setCognitoOptions",
"c2jName" : "CognitoOptions",
"c2jShape" : "CognitoOptions",
"defaultConsumerFluentSetterDocumentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [here](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html)". Amazon Cognito Authentication for Kibana</a>. This is a convenience that creates an instance of the {@link CognitoOptions.Builder} avoiding the need to create one manually via {@link CognitoOptions.Builder#build()}. When the {@link Consumer} completes, {@link CognitoOptions.Builder#build()} is called immediately and its result is passed to {@link CognitoOptions.Builder#consumer} a consumer that will call methods on {@link CognitoOptions.Builder#consumer} a reference to this object so that method calls can be chained together. Returns a reference to this object so that method calls can be chained together.

"deprecated" : false,
"documentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see [here](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html)". Amazon Cognito Authentication for Kibana</a>.

"\n\n"
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "cognitoOptions",
"fluentSetterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>
@param cognitoOptions Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "cognitoOptions",
"getterDocumentation" : "<p>Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.</p>
@return Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"getterModel" : {
   "returnType" : "CognitoOptions",
   "documentation" : null
},
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "CognitoOptions",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "CognitoOptions",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO"
"name" : "CognitoOptions",
"setterDocumentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
"setterMethodName" : "setCognitoOptions",
"setterModel" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : null,
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "CognitoOptions",
  "variableName" : "cognitoOptions",
  "variableType" : "CognitoOptions",
  "documentation" : "Options to specify the Cognito user and identity pools for Kibana authentication. For more information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-cognito-auth.html" target="_blank">Amazon Cognito Authentication for Kibana</a>.",
  "simpleType" : "CognitoOptions",
  "variableSetterType" : "CognitoOptions"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getAdvancedOptions",
"beanStyleSetterMethodName" : "setAdvancedOptions",
"c2jName" : "AdvancedOptions",
"c2jShape" : "AdvancedOptions",
"defaultConsumerFluentSetterDocumentation" : "Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.\n
This is a convenience that creates an instance of the [Map<String,String>.Builder](http://docs.aws.amazon.com/jdk1.8/api/java/util/Map.html#Builder) avoiding the need to create one manually via `Map<String,String>#builder()`.\n
When the [Map<String,String>.Builder](http://docs.aws.amazon.com/jdk1.8/api/java/util/Map.html#Builder) is called immediately and its result is passed to [Map<String,String>.Builder](http://docs.aws.amazon.com/jdk1.8/api/java/util/Map.html#Builder) a consumer that will call methods on [Map<String,String>.Builder](http://docs.aws.amazon.com/jdk1.8/api/java/util/Map.html#Builder)\n
\n@see #advancedOptions(Map<String,String>)"
,
"deprecated" : false,
"documentation" : "Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is
Configuration Advanced Options

Enumerate the advanced options:

- enumType = null
- eventHeader = false
- eventPayload = false
- fluentEnumGetterMethodName = null
- fluentEnumSetterMethodName = null
- fluentGetterMethodName = "advancedOptions"
- fluentSetterDocumentation = "Modifies the advanced option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See Configuration Advanced Options for more information."

@param advancedOptions
Modifies the advanced option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See Configuration Advanced Options for more information.

@return Returns a reference to this object so that method calls can be chained together."

getterDocumentation = "Modifies the advanced option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See Configuration Advanced Options for more information."

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return Modifies the advanced option to allow references to indices in an HTTP request body. Must be false when configuring access to individual sub-resources. By default, the value is true. See Configuration Advanced Options for more information."

getterModel = {
  "returnType" = "java.util.Map<String,String>",
  "documentation" = null
},

http = {
  "additionalMarshallingPath" = null,
  "additionalUnmarshallingPath" = null,
  "flattened" = false,
  "greedy" = false,
  "header" = false,
  "isPayload" = false,
  "isStreaming" = false,
  "location" = null,
  "marshallLocation" = "PAYLOAD",
  "marshallLocationName" = "AdvancedOptions",
  "queryString" = false,
  "statusCode" = false,
  "unmarshallLocationName" = "AdvancedOptions"
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKey",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "String",
    "defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create one manually via \n{@link String.Builder#builder()}.\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link #key(String)}.\n\n@see \n@param key a consumer that will call methods on \n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #key(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "key",
  "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\n\n@see \n@param key The new value for the Key property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "key",
  "getterDocumentation" : "Returns the value of the Key property for this object.\n@see \n@return The value of the Key property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "key",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "key",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Key",
.setterDocumentation" : "Sets the value of the Key property for this object.

@param key The new value for the Key property for this object."
,"setterMethodName" : "setKey",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "key",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
  "beanStyleGetterMethodName" : "getValue",
  "beanStyleSetterMethodName" : "setValue",
  "c2jName" : "value",
  "c2jShape" : "String",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object."
}
is a convenience that creates an instance of the {link String.Builder} avoiding the need to create one manually via
{link String#builder()}. When the {link Consumer} completes, {link String.Builder#build()} is called
immediately and its result is passed to {link #value(String)}. @param value a consumer that will call methods on
{link String.Builder} @return Returns a reference to this object so that method calls can be chained
together.@see #value(String),
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object.
@return Returns a reference to this object so that method calls can be chained
together.",
"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object.
@return The value of the Value property for this object.”,
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "value",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "value",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Value"
"setterDocumentation" : "Sets the value of the Value property for this object.

@\param value The new value for the Value property for this object.",
"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "value",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, String>",
"templateType" : "java.util.Map<String,String>"
},
"marshallingType" : "MAP",
"name" : "AdvancedOptions",
"setterDocumentation" : "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>@\param advancedOptions Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createdomain-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.",
"setterMethodName" : "setAdvancedOptions",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,String>",
  "variableName" : "advancedOptions",
  "variableType" : "java.util.Map<String,String>",
  "documentation" : null,
  "simpleType" : "Map<String,String>",
  "variableSetterType" : "java.util.Map<String,String>"
},
"simple" : false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.Map<String,String>",
  "variableName": "advancedOptions",
  "variableType": "java.util.Map<String,String>",
  "documentation": "<p>Modifies the advanced option to allow references to indices in an HTTP request body. Must be <code>false</code> when configuring access to individual sub-resources. By default, the value is <code>true</code>. See <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-createupdatedomains.html#es-createupdatedomains-configure-advanced-options" target="_blank">Configuration Advanced Options</a> for more information.</p>"
},
"xmlNameSpaceUri": null,
},
"beanStyleGetterMethodName": "getAccessPolicies",
"beanStyleSetterMethodName": "setAccessPolicies",
"c2jName": "AccessPolicies",
"c2jShape": "PolicyDocument",
"defaultConsumerFluentSetterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>\n\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link accessPolicies(String)}\n\n@see #accessPolicies(String)",
"deprecated": false,
"documentation": "<p>IAM access policy as a JSON-formatted string.</p>"
,"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "accessPolicies",
"fluentSetterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>
@param accessPolicies IAM access policy as a JSON-formatted string.
@return Returns a reference to this object so that method calls can be chained together.
@see #accessPolicies(String)",
"getterDocumentation": "<p>IAM access policy as a JSON-formatted string.</p>",
"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
IAM access policy as a JSON-formatted string.

**setterMethod**

```java
public LogPublishingOptions setLogPublishingOptions(String accessPolicies) {
    ... // implementation details...
    return this;
}
```

**getterMethod**

```java
public String getLogPublishingOptions() {
    ... // implementation details...
    return accessPolicies;
}
```
<code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.</p>

This is a convenience that creates an instance of the <code>{@link Map<String,LogPublishingOption>.Builder}</code> avoiding the need to create one manually via <code>{@link Map<String,LogPublishingOption>#builder()}</code>. When the <code>{@link Consumer}</code> completes, <code>{@link Map<String,LogPublishingOption>.Builder#build()}</code> is called immediately and its result is passed to <code>{@link #logPublishingOptionsAsStrings(Map<String,LogPublishingOption>)}</code>.

```java
public void logPublishingOptions(Consumer<
    Map<String,LogPublishingOption>> logPublishingOptions) {
    @param logPublishingOptions a consumer that will call methods on <code>{@link Map<String,LogPublishingOption>.Builder}</code>.
    @return Returns a reference to this object so that method calls can be chained together.
    @see #logPublishingOptionsWithStrings(Map<String,LogPublishingOption>)
}
```

```
        "deprecated" : false,
        "documentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
        
        "enumType" : null,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : "logPublishingOptions",
        "fluentEnumSetterMethodName" : "logPublishingOptions",
        "fluentGetterMethodName" : "logPublishingOptionsAsStrings",
        "fluentSetterDocumentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
        
        "getterDocumentation" : "Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log.
        
        "getterModel" : {
            "returnType" : "java.util.Map<String,LogPublishingOption>",
            "documentation" : null
        },
        "http" : {
            "additionalMarshallingPath" : null,
            "additionalUnmarshallingPath" : null,
            "flattened" : false,
            "greedy" : false,
            "header" : false,
            "isPayload" : false,
            "isStreaming" : false,
            "location" : null,
            "marshallLocation" : "PAYLOAD",
            "marshallLocationName" : "LogPublishingOptions",
            "queryString" : false,
            "statusCode" : false,
            "unmarshallLocationName" : "LogPublishingOptions",
            "uri" : false
        },
        "idempotencyToken" : false,
    }
```
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKeyAsString",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "LogType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\nThis is a convenience that creates an instance of the \n@param key a consumer that will call methods on \n@return Returns a reference to this object so that method calls can be chained together.\n@see setKey(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : "LogType",
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "key",
    "fluentEnumSetterMethodName" : "key",
    "fluentGetterMethodName" : "keyAsString",
    "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\nWhen the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #keyAsString(String)\n@param key The new value for the Key property for this object.\n@return Returns a reference to this object so that method calls can be chained together.\n@see LogType",
    "fluentSetterMethodName" : "key",
    "getterDocumentation" : "Returns the value of the Key property for this object.\nIf the service returns an enum value that is not available in the current SDK version, @link #key will return @link LogType#UNKNOWN_TO_SDK_VERSION\n@link #keyAsString\nThe value of the Key property for this object.\n@return The value of the Key property for this object.\n@see LogType",
    "getterModel" : {
      "returnType" : "String",
      "documentation" : null
    },
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
  }
}"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : true,
"mapModel" : {
  "implType" : "java.util.HashMap",
  "interfaceType" : "java.util.Map",
  "keyLocationName" : "key",
  "keyModel" : {
    "beanStyleGetterMethodName" : "getKeyAsString",
    "beanStyleSetterMethodName" : "setKey",
    "c2jName" : "key",
    "c2jShape" : "LogType",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Key property for this object.\nThis is a convenience that creates an instance of the \n@param key a consumer that will call methods on \n@return Returns a reference to this object so that method calls can be chained together.\n@see setKey(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : "LogType",
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : "key",
    "fluentEnumSetterMethodName" : "key",
    "fluentGetterMethodName" : "keyAsString",
    "fluentSetterDocumentation" : "Sets the value of the Key property for this object.\nWhen the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #keyAsString(String)\n@param key The new value for the Key property for this object.\n@return Returns a reference to this object so that method calls can be chained together.\n@see LogType",
    "fluentSetterMethodName" : "key",
    "getterDocumentation" : "Returns the value of the Key property for this object.\nIf the service returns an enum value that is not available in the current SDK version, @link #key will return @link LogType#UNKNOWN_TO_SDK_VERSION\nThe raw value returned by the service is available from @link #keyAsString\n@link #keyAsString\nThe value of the Key property for this object.\n@return The value of the Key property for this object.\n@see LogType",
    "getterModel" : {
      "returnType" : "String",
      "documentation" : null
    },
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
"setterDocumentation" : "Sets the value of the Key property for this object.\n\n@param key The new value for the Key property for this object.\n\n@see LogType",
"setterMethodName" : "setKey",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "key",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "key",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"valueLocationName" : "value",
"valueModel" : {
    "beanStyleGetterMethodName" : "getValue",
    "beanStyleSetterMethodName" : "setValue",
    "c2jName" : "value",
    "c2jShape" : "LogPublishingOption",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Value property for this object.\n\nThis is a convenience that creates an instance of the \n@link LogPublishingOption.Builder\navoiding the need to create
one manually via \{@link LogPublishingOption\#builder()\}. When the \{@link Consumer\} completes, \{@link LogPublishingOption.Builder\#build()\} is called immediately and its result is passed to \{@link #value(LogPublishingOption)\}. \n
@param value a consumer that will call methods on \{@link LogPublishingOption.Builder\} \n
@return Returns a reference to this object so that method calls can be chained together. \n
@see #value(LogPublishingOption)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "value",
"fluentSetterDocumentation" : "Sets the value of the Value property for this object. \n\n@param value The new value for the Value property for this object. \n\n@return Returns a reference to this object so that method calls can be chained together. \n
@see #value(LogPublishingOption)

"fluentSetterMethodName" : "value",
"getterDocumentation" : "Returns the value of the Value property for this object. \n\n@return The value of the Value property for this object. \n
"getterModel" : {
    "returnType" : "LogPublishingOption",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "value",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "value",
    "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Value",
"setterDocumentation" : "Sets the value of the Value property for this object. The new value for the Value property for this object."

"setterMethodName" : "setValue",
"setterModel" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "LogPublishingOption",
  "variableName" : "value",
  "variableType" : "LogPublishingOption",
  "documentation" : null,
  "simpleType" : "LogPublishingOption",
  "variableSetterType" : "LogPublishingOption"
},
"xmlNameSpaceUri" : null
},
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"setterDocumentation" : "A Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log."

"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri" : null,
"entryType" : "Map.Entry<String, LogPublishingOption>",
"templateType" : "java.util.Map<String,LogPublishingOption>"
},
"marshallingType" : "MAP",
"name" : "LogPublishingOptions",
"setterDocumentation" : "A Map of <code>LogType</code> and <code>LogPublishingOption</code>, each containing options to publish a given type of Elasticsearch log."

"setterMethodName" : "setLogPublishingOptionsWithStrings",
"setterModel" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.Map<String,LogPublishingOption>"
},
"xmlNameSpaceUri" : null,
containing options to publish a given type of Elasticsearch log.

```json
"complexType" : "Map<String,LogPublishingOption>",
"variableSetterType" : "java.util.Map<String,LogPublishingOption>"
}
"xmlNameSpaceUri" : null
}
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "DomainName" ],
"shapeName" : "UpdateElasticsearchDomainConfigRequest",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : {
"variableDeclarationType" : "UpdateElasticsearchDomainConfigRequest",
"variableName" : "updateElasticsearchDomainConfigRequest",
"variableType" : "UpdateElasticsearchDomainConfigRequest",
"documentation" : null,
"simpleType" : "UpdateElasticsearchDomainConfigRequest",
"variableSetterType" : "UpdateElasticsearchDomainConfigRequest"
}
"wrapper" : false
}
"UpdateElasticsearchDomainConfigResponse" : {
"c2jName" : "UpdateElasticsearchDomainConfigResponse",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "The result of an <code>UpdateElasticsearchDomain</code> request. Contains the status of the Elasticsearch domain being updated.

"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"marshaller" : null,
"members" : [ {
"beanStyleGetterMethodName" : "getDomainConfig",
"beanStyleSetterMethodName" : "setDomainConfig",
"documentation" : "The status of the Elasticsearch domain being updated."
]]
```
The status of the updated Elasticsearch domain.

This is a convenience that creates an instance of the ElasticsearchDomainConfig.Builder avoiding the need to create one manually via ElasticsearchDomainConfig#builder(). When the ElasticsearchDomainConfig.Builder#build() is called immediately and its result is passed to ElasticsearchDomainConfig a consumer that will call methods on ElasticsearchDomainConfig.Builder#return Returns a reference to this object so that method calls can be chained together.

The status of the updated Elasticsearch domain.

The status of the updated Elasticsearch domain.

The status of the updated Elasticsearch domain.

The status of the updated Elasticsearch domain.

The status of the updated Elasticsearch domain.

The status of the updated Elasticsearch domain.

The status of the updated Elasticsearch domain.
"fluentSetterDocumentation" : "The status of the updated Elasticsearch domain.\n@\n\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "domainConfig",
"getterDocumentation" : "The status of the updated Elasticsearch domain.\n\n@return The status of the updated Elasticsearch domain."

"getterModel" : {
"returnType" : "ElasticsearchDomainConfig",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainConfig",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainConfig",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "DomainConfig",
"setterDocumentation" : "The status of the updated Elasticsearch domain.\n\n@param domainConfig The status of the updated Elasticsearch domain
\n@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setDomainConfig",
"setterModel" : {
"variableDeclarationType" : "ElasticsearchDomainConfig",
"variableName" : "domainConfig",
"variableType" : "ElasticsearchDomainConfig",
"documentation" : null,
"simpleType" : "ElasticsearchDomainConfig",
"variableSetterType" : "ElasticsearchDomainConfig"
},
"simple" : false,
"timestampFormat" : null,
"variable": {
  "variableDeclarationType": "ElasticsearchDomainConfig",
  "variableName": "domainConfig",
  "variableType": "ElasticsearchDomainConfig",
  "documentation": "The status of the updated Elasticsearch domain. \</p>\",
  "simpleType": "ElasticsearchDomainConfig",
  "variableSetterType": "ElasticsearchDomainConfig"
},
"xmlNameSpaceUri": null
},
"nonStreamingMembers": [
  {
    "beanStyleGetterMethodName": "getDomainConfig",
    "beanStyleSetterMethodName": "setDomainConfig",
    "c2jName": "DomainConfig",
    "c2jShape": "ElasticsearchDomainConfig",
    "defaultConsumerFluentSetterDocumentation": "The status of the updated Elasticsearch domain.
\</p>\&n
When the \{link ElasticsearchDomainConfig.Builder\} avoiding the need to create one manually via \{link ElasticsearchDomainConfig.Builder#builder()\}. When the \{link Consumer\} completes, \{link ElasticsearchDomainConfig.Builder#build()\} is called immediately and its result is passed to \{link ElasticsearchDomainConfig.Builder\} consumer that will call methods on \{link ElasticsearchDomainConfig.Builder\}@return Returns a reference to this object so that method calls can be chained together.@see domainConfig(ElasticsearchDomainConfig)",
  "deprecated": false,
  "documentation": "The status of the updated Elasticsearch domain. \</p>\",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "domainConfig",
  "fluentSetterDocumentation": "The status of the updated Elasticsearch domain. \</p>\&n
@param domainConfig The status of the updated Elasticsearch domain.@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName": "domainConfig",
  "getterDocumentation": "The status of the updated Elasticsearch domain. \</p>\&n
@return The status of the updated Elasticsearch domain.",
  "getterModel": {
    "returnType": "ElasticsearchDomainConfig",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
The status of the updated Elasticsearch domain.

```json
"setterDocumentation": "The status of the updated Elasticsearch domain."

"setterMethodName": "setDomainConfig",

"setterModel": {
  "variableDeclarationType": "ElasticsearchDomainConfig",
  "variableName": "domainConfig",
  "variableType": "ElasticsearchDomainConfig",
  "documentation": "The status of the updated Elasticsearch domain."
}

"simple": false,

"timestampFormat": null,

"variable": {
  "variableDeclarationType": "ElasticsearchDomainConfig",
  "variableName": "domainConfig",
  "variableType": "ElasticsearchDomainConfig",
  "documentation": "The status of the updated Elasticsearch domain."
}

"xmlNameSpaceUri": null
```

"requestSignerAware": false,

"requestSignerClassFqcn": null,

"required": [ "DomainConfig" ],

"shapeName": "UpdateElasticsearchDomainConfigResponse",

"simpleMethod": false,

"unmarshaller": {
  "flattened": false,
  "idempotencyToken": false,
  "isBinary": false,
  "jsonValue": false,
  "list": false,
  "listModel": null,
  "map": false,
  "mapModel": null,
  "marshallingType": "SDK_POJO",
  "name": "DomainConfig",
  "setterDocumentation": "The status of the updated Elasticsearch domain.",
  "setterMethodName": "setDomainConfig",
  "setterModel": {
    "variableDeclarationType": "ElasticsearchDomainConfig",
    "variableName": "domainConfig",
    "variableType": "ElasticsearchDomainConfig",
    "documentation": null,
    "simpleType": "ElasticsearchDomainConfig",
    "variableSetterType": "ElasticsearchDomainConfig"
  }
}

"simple": false,

"timestampFormat": null,

"variable": {
    "variableDeclarationType": "ElasticsearchDomainConfig",
    "variableName": "domainConfig",
    "variableType": "ElasticsearchDomainConfig",
    "documentation": null,
    "simpleType": "ElasticsearchDomainConfig",
    "variableSetterType": "ElasticsearchDomainConfig"
}

"xmlNameSpaceUri": null
```
"resultWrapper" : null,
],
"variable" : {
"variableDeclarationType" : "UpdateElasticsearchDomainConfigResponse",
"variableName" : "updateElasticsearchDomainConfigResponse",
"variableType" : "UpdateElasticsearchDomainConfigResponse",
"documentation" : null,
"simpleType" : "UpdateElasticsearchDomainConfigResponse",
"variableSetterType" : "UpdateElasticsearchDomainConfigResponse"
},
"wrapper" : false
],
"UpgradeElasticsearchDomainRequest" : {
"c2jName" : "UpgradeElasticsearchDomainRequest",
"customization" : {
"artificialResultWrapper" : null,
"skipGeneratingMarshaller" : false,
"skipGeneratingModelClass" : false,
"skipGeneratingUnmarshaller" : false,
"staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p> Container for request parameters to <code> <a>UpgradeElasticsearchDomain</a> </code> operation. </p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : {
"action" : "UpgradeElasticsearchDomain",
"locationName" : null,
"requestUri" : "/2015-01-01/es/upgradeDomain",
"target" : null,
"verb" : "POST",
"xmlNameSpaceUri" : null
},
"members" : [
"beanStyleGetterMethodName" : "getDomainName",
"beanStyleSetterMethodName" : "setDomainName",
"c2jName" : "DomainName",
"c2jShape" : "DomainName",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this
This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String#builder()`.

When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `domainName(String)`.

@param domainName a consumer that will call methods on `String.Builder`
@return Returns a reference to this object so that method calls can be chained together.

@see #domainName(String)
"setterDocumentation" : "Sets the value of the DomainName property for this object. The new value for the DomainName property for this object.",
"setterMethodName" : "setDomainName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getTargetVersion",
  "beanStyleSetterMethodName" : "setTargetVersion",
  "c2jName" : "TargetVersion",
  "c2jShape" : "ElasticsearchVersionString",
  "defaultConsumerFluentSetterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String.Builder()\}. When the \{@link Consumer\} completes, \{@link String.Builder#build()\} is called immediately and its result is passed to \{@link ElasticsearchVersionString\}.\n\n@deprecated\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see \#targetVersion(String)",
  "deprecated" : false,
  "documentation" : "The version of Elasticsearch that you intend to upgrade the domain to.\n\n@deprecated\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see \#targetVersion(String)",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "targetVersion",
  "fluentSetterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n\n@see \#targetVersion(String)",
  "fluentSetterMethodName" : "targetVersion",
  "getterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.\n\n@returns Returns the version of Elasticsearch that you intend to upgrade the domain to.\n\n@see \#targetVersion(String)",
  "getterMethodName" : null,
  "getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "TargetVersion",
"setterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.",
"setterMethodName" : "setTargetVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "targetVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "targetVersion",
  "variableType" : "String",
  "documentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

When the Consumer completes, the result is passed to a consumer that will call methods on a consumer that will call methods on ...

When the Consumer completes, the result is passed to a consumer that will call methods on a consumer that will call methods on a consumer that will call methods on...
"unmarshallLocationName": "PerformCheckOnly",
"uri": false,
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "BOOLEAN",
"name": "PerformCheckOnly",
"setterDocumentation": "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>
@param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. ",
"setterMethodName": "setPerformCheckOnly",
"setterModel": {
 "variableDeclarationType": "Boolean",
 "variableName": "performCheckOnly",
 "variableType": "Boolean",
 "documentation": null,
 "simpleType": "Boolean",
 "variableSetterType": "Boolean"
 },
 "simple": true,
 "timestampFormat": null,
 "variable": {
 "variableDeclarationType": "Boolean",
 "variableName": "performCheckOnly",
 "variableType": "Boolean",
 "documentation": "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.</p>",
 "simpleType": "Boolean",
 "variableSetterType": "Boolean"
 },
 "xmlNameSpaceUri": null
} ],
"membersAsMap": {
 "DomainName": {
 "beanStyleGetterMethodName": "getDomainName",
 "beanStyleSetterMethodName": "setDomainName",
 "c2jName": "DomainName",
 "c2jShape": "DomainName",
 "defaultConsumerFluentSetterDocumentation": "Sets the value of the DomainName property for this object.\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #domainName(String)].\n@param
domainName a consumer that will call methods on { @link String.Builder }\n@returns a reference to this object so that method calls can be chained together.\n@see #domainName(String)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\n\n@param domainName The new value for the DomainName property for this object.\n@returns a reference to this object so that method calls can be chained together.,"
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.\n\n@returns The value of the DomainName property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "DomainName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "DomainName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object.\n\n@param domainName The new value for the DomainName property for this object.",
"setterMethodName" : "setDomainName"
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "domainName",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"PerformCheckOnly": {
  "beanStyleGetterMethodName": "getPerformCheckOnly",
  "beanStyleSetterMethodName": "setPerformCheckOnly",
  "c2jName": "PerformCheckOnly",
  "c2jShape": "Boolean",
  "defaultConsumerFluentSetterDocumentation": "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>
  
  This is a convenience that creates an instance of the { @link Boolean.Builder} avoiding the need to create one manually via { @link Boolean.Builder#builder()}. When the { @link Consumer} completes, { @link Boolean.Builder#build()} is called immediately and its result is passed to { @link performCheckOnly(Boolean)}. Returns a reference to this object so that method calls can be chained together.
  
  @see #performCheckOnly(Boolean)",
  "deprecated": false,
  "documentation": "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "performCheckOnly",
  "fluentSetterDocumentation": "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>
  
  This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. Returns a reference to this object so that method calls can be chained together.
  
  @see #performCheckOnly(Boolean)",
  "getterDocumentation": "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>
  
  This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.
  
  @return Returns a reference to this object so that method calls can be chained together.
  
  @see #performCheckOnly(Boolean)"}
an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

```
"getterModel" : {
  "returnType" : "Boolean",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "PerformCheckOnly",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "PerformCheckOnly",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "PerformCheckOnly",
"setterDocumentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade."

@param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade."

"setterMethodName" : "setPerformCheckOnly",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "performCheckOnly",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},

"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "performCheckOnly",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
}
```
"variableType" : "Boolean",
"documentation" : "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>",
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"TargetVersion" : {
"beanStyleGetterMethodName" : "getTargetVersion",
"beanStyleSetterMethodName" : "setTargetVersion",
"c2jName" : "TargetVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
This is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}. When the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #targetVersion(String)}. @param targetVersion a consumer that will call methods on { @link String.Builder} @return Returns a reference to this object so that method calls can be chained together. @see #targetVersion(String)",
"deprecated" : false,
"documentation" : "The version of Elasticsearch that you intend to upgrade the domain to.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "targetVersion",
"fluentSetterMethodName" : "targetVersion",
"fluentSetterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.

@<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>

@see #targetVersion(String)",
"getterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.

@<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>

@see #targetVersion(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersion"
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersion",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "TargetVersion",
"setterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.",
"setterMethodName" : "setTargetVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "targetVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "targetVersion",
  "variableType" : "String",
  "documentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
"name" : "TargetDomainName",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [
  {
    "beanStyleGetterMethodName" : "getDomainName",
    "beanStyleSetterMethodName" : "setDomainName",
    "c2jName" : "DomainName",
    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\nThis is a convenience that creates an instance of the { @link String.Builder} avoiding the need to create one manually via { @link String#builder()}.\nWhen the { @link Consumer} completes, { @link String.Builder#build()} is called immediately and its result is passed to { @link #domainName(String)}.\n@return Returns a reference to this
object so that method calls can be chained together.\n\n@see #domainName(String)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "domainName",
"fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.
\n@para domainName The new value for the DomainName property for this object.
\n@returns Returns a reference to this object so that method calls can be chained together.\n",
"fluentSetterMethodName" : "domainName",
"getterDocumentation" : "Returns the value of the DomainName property for this object.
\n@returns The value of the DomainName property for this object.\n",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "DomainName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "DomainName",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "DomainName",
"setterDocumentation" : "Sets the value of the DomainName property for this object.
\n@para domainName The new value for the DomainName property for this object.\n\n@returns Returns a reference to this object so that method calls can be chained together.\n",
"setterMethodName" : "setDomainName",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "domainName",
"variableType" : "String",
"documentation" : "",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
{"beanStyleGetterMethodName" : "getTargetVersion",
"beanStyleSetterMethodName" : "setTargetVersion",
"c2jName" : "TargetVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultConsumerFluentSetterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}. When the {@link Consumer} completes, {@link String.Builder#build} is called immediately and its result is passed to {@link #targetVersion(String)}.<p>@param targetVersion a consumer that will call methods on {@link String.Builder}</p>@return Returns a reference to this object so that method calls can be chained together.<p>@see #targetVersion(String)

deprecated" : false,
"documentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "targetVersion",
"fluentSetterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p><p>The version of Elasticsearch that you intend to upgrade the domain to.\n@return Returns a reference to this object so that method calls can be chained together.</p>
fluentSetterMethodName" : "targetVersion",
"getterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p><p>The version of Elasticsearch that you intend to upgrade the domain to.</p>@return The version of Elasticsearch that you intend to upgrade the domain to.</p>
getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"variableDeclaratio...
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "TargetVersion",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "TargetVersion",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "TargetVersion",
"setterDocumentation" : "\n<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>\n@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.",
"setterMethodName" : "setTargetVersion",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "targetVersion",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "targetVersion",
  "variableType" : "String",
  "documentation" : "\n<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>\n",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getPerformCheckOnly",
This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

This is a convenience that creates an instance of the [link Boolean.Builder] avoiding the need to create one manually via [link Boolean.Builder#builder()].

When the [link Consumer] completes, [link Boolean.Builder#build()] is called immediately and its result is passed to [link #performCheckOnly(Boolean)].

@see #performCheckOnly(Boolean)
This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

- **performCheckOnly**: This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.

```python
"setterMethodName" : "setPerformCheckOnly",
"setterModel" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "performCheckOnly",
  "variableType" : "Boolean",
  "documentation" : null,
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "performCheckOnly",
  "variableType" : "Boolean",
  "documentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade."
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
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"UpgradeElasticsearchDomainResponse" : {
  "c2jName" : "UpgradeElasticsearchDomainResponse",
  "customization" : {
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    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "\<p\> Container for response returned by \<code\> <a\>UpgradeElasticsearchDomain</a>\</code\> operation. \<p\>\",
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    "c2jShape" : "DomainName",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\n\nThis is a convenience that creates an instance of the {\link String.Builder} avoiding the need to create one manually via {\link String#builder()}\.\n\nWhen the {\link Consumer} completes, {\link String.Builder#build()} is called immediately and its result is passed to {\link domainName(String)}\.\n\n@param domainName a consumer that will call methods on {\link String.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see domainName(String)",
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    "fluentEnumSetterMethodName" : null,
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    "fluentSetterDocumentation" : "Sets the value of the DomainName property for this object.\n\n@param domainName The new value for the DomainName property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "domainName",
  } ,}
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"variableSetterType" : "String"
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"beanStyleSetterMethodName" : "setTargetVersion",
"c2jName" : "TargetVersion",
"c2jShape" : "ElasticsearchVersionString",
"defaultValueFluentSetterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via [@link String.Builder()].
When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link TargetVersion(String)].
@param targetVersion a consumer that will call methods on [@link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #targetVersion(String)",
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@return Returns a reference to this object so that method calls can be chained together.",
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  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "TargetVersion",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "TargetVersion"
The version of Elasticsearch that you intend to upgrade the domain to.

This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. This is a convenience that creates an instance of the [Boolean.Builder] avoiding the need to create one manually via [Boolean#builder()].

When the [Consumer] completes, [Boolean.Builder#build()] is called immediately and its result is passed to [performCheckOnly(Boolean)].

A consumer that will call methods on [Boolean.Builder].

Returns a reference to this object so that method calls can be chained together.

This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.
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"documentation": null
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"isStreaming": false,
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"queryString": false,
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"uri": false
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"isBinary": false,
"jsonValue": false,
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    "variableName" : "performCheckOnly",
    "variableType" : "Boolean",
    "documentation" : "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>",
    "simpleType" : "Boolean",
    "variableSetterType" : "Boolean"
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"xmlNameSpaceUri" : null
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"membersAsMap" : {
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        "beanStyleSetterMethodName" : "setDomainName",
        "c2jName" : "DomainName",
        "c2jShape" : "DomainName",
        "defaultValueConsumerFluentSetterDocumentation" : "Sets the value of the DomainName property for this object. This is a convenience that creates an instance of the \{@link String.Builder\} avoiding the need to create one manually via \{@link String#builder()\}. When the \{@link Consumer\} completes, \{@link StringBuilder#build()\} is called immediately and its result is passed to \{@link #domainName(String)\}.\n\n@see #domainName(String)",
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domainName The new value for the DomainName property for this object."
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  "variableName" : "domainName",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"  
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"documentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. This is a convenience that creates an instance of the \{@link Boolean.Builder\} avoiding the need to create one manually via \{@link Boolean#builder()\}. When the \{@link Consumer\} completes, \{@link Boolean.Builder#build()\} is called immediately and its result is passed to \{@link #performCheckOnly(Boolean)\}.\n\nThis flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.\n\n\n@see #performCheckOnly(Boolean)"
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,"getterDocumentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.\n\n\n@see #performCheckOnly(Boolean)"
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"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
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"listModel" : null,
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"marshallingType" : "BOOLEAN",
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"setterDocumentation" : "This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. \n\n@param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.\n",
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  "documentation" : null,
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  "defaultConsumerFluentSetterDocumentation" : "The version of Elasticsearch that you intend to upgrade the domain to.\n\nThis is a convenience that creates an instance of the [String.Builder] avoiding the need to create one manually via [String.Builder].\n\nWhen the [Consumer] completes, [String.Builder#build] is called immediately and its result is passed to [targetVersion(String)].\n@param param
targetVersion a consumer that will call methods on {@link String.Builder\n@return Returns a reference to this object so that method calls can be chained together.\n@see #targetVersion(String)\n", "deprecated": false, "documentation": "\n<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>\n\n\n\n@see #targetVersion(String)\n"}, "enumType": null, "eventHeader": false, "eventPayload": false, "fluentEnumGetterMethodName": null, "fluentEnumSetterMethodName": null, "fluentMethodName": "targetVersion", "fluentSetterDocumentation": "\n<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>\n@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.\n@return The version of Elasticsearch that you intend to upgrade the domain to.\n\n\n\n\n@see #targetVersion(String)\n"}, "getterDocumentation": "\n<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>\n@return The version of Elasticsearch that you intend to upgrade the domain to.\n\n\n\n@see #targetVersion(String)\n", "getterModel": { "returnType": "String", "documentation": null }, "http": { "additionalMarshallingPath": null, "additionalUnmarshallingPath": null, "flattened": false, "greedy": false, "header": false, "isPayload": false, "isStreaming": false, "location": null, "marshallLocation": "PAYLOAD", "marshallLocationName": "TargetVersion", "queryString": false, "statusCode": false, "unmarshallLocationName": "TargetVersion", "uri": false }, "idempotencyToken": false, "isBinary": false, "jsonValue": false, "list": false, "listModel": null, "map": false, "mapModel": null, "marshallingType": "STRING", "name": "TargetVersion", "setterDocumentation": "\n<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>\n@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.\n@return The version of Elasticsearch that you intend to upgrade the domain to.\n\n\n\n\n@see #targetVersion(String)\n", "setterMethodName": "setTargetVersion"
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    "documentation": "",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "domainName",
    "fluentSetterDocumentation": "Sets the value of the DomainName property for this object.\n    "
    "deprecated": false,
The new value for the DomainName property for this object.

@generated

```java
public void setDomainName(String domainName) {
  this.domainName = domainName;
}
```

The new value for the DomainName property for this object.

@generated

```java
public void setDomainName(String domainName) {
  this.domainName = domainName;
}
```
"xmlNameSpaceUri" : null,

},

"beanStyleGetterMethodName" : "getTargetVersion",
"beanStyleSetterMethodName" : "setTargetVersion",
"c2jName" : "TargetVersion",
"c2jShape" : "ElasticsearchVersionString",

"defaultValueConsumerFluentSetterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade
the domain to.</p>

This is a convenience that creates an instance of the {<link String.Builder} avoiding the need
to create one manually via {<link String#builder()}.

When the {<link Consumer} completes, {<link String.Builder#build()} is called immediately and its result is passed to {<link #targetVersion(String)}.<param targetVersion a consumer that will call methods on {<link String.Builder}> Returns a reference to this
object so that method calls can be chained together.<see #targetVersion(String)>

"deprecated" : false,
"documentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "targetVersion",
"fluentSetterDocumentation" : "<p>The version of Elasticsearch that you intend to upgrade the domain
to.</p>

When the {<link Consumer} completes, {<link String.Builder#build()} is called immediately and its result is passed to {<link #targetVersion(String)}.<param targetVersion a consumer that will call methods on {<link String.Builder}> Returns a reference to this
object so that method calls can be chained together.<see #targetVersion(String)>

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "TargetVersion",
"setterDocumentation": "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>\n@param targetVersion The version of Elasticsearch that you intend to upgrade the domain to.",
"setterMethodName": "setTargetVersion",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "targetVersion",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "targetVersion",
  "variableType": "String",
  "documentation": "<p>The version of Elasticsearch that you intend to upgrade the domain to.</p>
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getPerformCheckOnly",
"beanStyleSetterMethodName": "setPerformCheckOnly",
"c2jName": "PerformCheckOnly",
"c2jShape": "Boolean",
"defaultConsumerFluentSetterDocumentation": "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>\nThis is a convenience that creates an instance of the [\@link Boolean.Builder] avoiding the need to create one manually via [\@link Boolean#builder()].\n\nWhen the [\@link Consumer] completes, [\@link Boolean.Builder#build()] is called immediately and its result is passed to [\@link #performCheckOnly(Boolean)].\n\n@param performCheckOnly a consumer that will call methods on [\@link Boolean.Builder]\n\n@see #performCheckOnly(Boolean)"
"deprecated": false,
"documentation": "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>
"enumType": null,
"eventType": "false",
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "performCheckOnly",
"fluentSetterDocumentation" : "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>@param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade.
@return Returns a reference to this object so that method calls can be chained together."
"fluentSetterMethodName" : "performCheckOnly",
"getterDocumentation" : "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>@return This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade."
"getterModel" : {
"returnType" : "Boolean",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "PerformCheckOnly",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "PerformCheckOnly",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "BOOLEAN",
"name" : "PerformCheckOnly",
"setterDocumentation" : "<p>This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade. </p>@param performCheckOnly This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be performed. This will not actually perform the Upgrade."
"setterMethodName" : "setPerformCheckOnly",
"setterModel" : {
 "variableDeclarationType" : "Boolean",
 "variableName" : "performCheckOnly",
 "variableType" : "Boolean",}
"documentation" : null,
"simpleType" : "Boolean",
"variableSetterType" : "Boolean"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Boolean",
  "variableName" : "performCheckOnly",
  "variableType" : "Boolean",
  "documentation" : "<p> This flag, when set to True, indicates that an Upgrade Eligibility Check needs to be
performed. This will not actually perform the Upgrade. </p>",
  "simpleType" : "Boolean",
  "variableSetterType" : "Boolean"
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqn" : null,
"required" : null,
"shapeName" : "UpgradeElasticsearchDomainResponse",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "UpgradeElasticsearchDomainResponse",
  "variableName" : "upgradeElasticsearchDomainResponse",
  "variableType" : "UpgradeElasticsearchDomainResponse",
  "documentation" : null,
  "simpleType" : "UpgradeElasticsearchDomainResponse",
  "variableSetterType" : "UpgradeElasticsearchDomainResponse"
},
"wrapper" : false
},
"UpgradeHistory" : {
  "c2jName" : "UpgradeHistory",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>History of the last 10 Upgrades and Upgrade Eligibility Checks.</p>",
  "enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
    "beanStyleGetterMethodName" : "getUpgradeName",
    "beanStyleSetterMethodName" : "setUpgradeName",
    "c2jName" : "UpgradeName",
    "c2jShape" : "UpgradeName",
    "defaultConsumerFluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via
[@link String#builder()].
When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #upgradeName(String)].
@param upgradeName a consumer that will call methods on [@link String.Builder]
@return Returns a reference to this object so that method calls can be chained together.
@see #upgradeName(String)",
    "deprecated" : false,
    "documentation" : "<p>A string that describes the update briefly</p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "upgradeName",
    "fluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
@link #upgradeName(String)
@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "upgradeName",
    "getterDocumentation" : "<p>A string that describes the update briefly</p>
@link #upgradeName(String)
@return A string that describes the update briefly"
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeName",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeName",
"setterDocumentation" : "<p>A string that describes the update briefly</p>
@param upgradeName A string that describes the update briefly",
"setterMethodName" : "setUpgradeName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" :
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : "<p>A string that describes the update briefly</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getStartTimestamp",
"beanStyleSetterMethodName" : "setStartTimestamp",
"c2jName" : "StartTimestamp",
"c2jShape" : "StartTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>
This is a convenience that creates an instance of the { @link Instant.Builder} avoiding the need to create one manually via { @link Instant.Builder#builder()}. When the { @link Consumer} completes, { @link Instant.Builder#build()} is called immediately and its result is passed to { @link #startTimestamp(Instant)}."
@return Returns a reference to this object so that method calls can be chained together.

@see #startTimestamp(Instant),

deprecated" : false,
"documentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>

.enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "startTimestamp",
"fluentSetterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>

@param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "startTimestamp",
"getterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>

@return UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.

getterMethod" : {

.returnType" : "java.time.Instant",
"documentation" : null
}

http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "StartTimestamp",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StartTimestamp",
"uri" : false
}

"idempotencyToken" : false,
"isBinary" : false,
"jsonData" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "StartTimestamp",
"setterDocumentation": "<p>UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.</p>
@param startTimestamp UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.

"setterMethodName": "setStartTimestamp",
"setterModel": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "startTimestamp",
  "variableType": "java.time.Instant",
  "documentation": null,
  "simpleType": "Instant",
  "variableSetterType": "java.time.Instant"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "startTimestamp",
  "variableType": "java.time.Instant",
  "documentation": "<p>UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.</p>

"simple": "Instant",
"variableSetterType": "java.time.Instant"
},
"xmlNameSpaceUri": null
}, {
  "beanStyleGetterMethodName": "getUpgradeStatusAsString",
  "beanStyleSetterMethodName": "setUpgradeStatus",
  "c2jName": "UpgradeStatus",
  "c2jShape": "UpgradeStatus",
  "defaultConsumerFluentSetterDocumentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the [@link Consumer] completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #upgradeStatusAsString(String)}.

@see #upgradeStatus(String)

"deprecated": false,
"documentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>enumType": "UpgradeStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "upgradeStatus",
"fluentEnumSetterMethodName": "upgradeStatus",
"fluentGetterMethodName": "upgradeStatusAsString",
"fluentSetterDocumentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
"deprecated": false,
"documentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>enumType": "UpgradeStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "upgradeStatus",
"fluentEnumSetterMethodName": "upgradeStatus",
"fluentGetterMethodName": "upgradeStatusAsString",
"fluentSetterDocumentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
"deprecated": false,
"documentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>enumType": "UpgradeStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "upgradeStatus",
"fluentEnumSetterMethodName": "upgradeStatus",
"fluentGetterMethodName": "upgradeStatusAsString",
"fluentSetterDocumentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
"deprecated": false,
"documentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>enumType": "UpgradeStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "upgradeStatus",
"fluentEnumSetterMethodName": "upgradeStatus",
"fluentGetterMethodName": "upgradeStatusAsString",
"fluentSetterDocumentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
"deprecated": false,
"documentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>enumType": "UpgradeStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "upgradeStatus",
"fluentEnumSetterMethodName": "upgradeStatus",
"fluentGetterMethodName": "upgradeStatusAsString",
"fluentSetterDocumentation": "<p>The overall status of the update. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>\n@end

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The overall status of the update. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed.

If the service returns an enum value that is not available in the current SDK version, UpgradeStatus#UNKNOWN_TO_SDK_VERSION will be returned. The raw value returned by the service is available from UpgradeStatusAsString.

The overall status of the update. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed.

The overall status of the update. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed.
"variableName" : "upgradeStatus",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "upgradeStatus",
"variableType" : "String",
"documentation" : "The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlnsSpaceUri" : null
],
"beanStyleGetterMethodName" : "getStepsList",
"beanStyleSetterMethodName" : "setStepsList",
"c2jName" : "StepsList",
"c2jShape" : "UpgradeStepsList",
"defaultValueConsumerFluentSetterDocumentation" : "A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. This is a convenience that creates an instance of the {@link List<UpgradeStepItem>.Builder} avoiding the need to create one manually via {@link List<UpgradeStepItem>#builder()}. When the {@link Consumer} completes, {@link List<UpgradeStepItem>.Builder#build()} is called immediately and its result is passed to {@link #stepsList(List<UpgradeStepItem>)}.

When the {@link Consumer} completes, {@link List<UpgradeStepItem>.Builder#build()} is called immediately and its result is passed to {@link #stepsList(List<UpgradeStepItem>)}.
:param stepsList a consumer that will call methods on {@link List<UpgradeStepItem>.Builder}
@return Returns a reference to this object so that method calls can be chained together.
@see #stepsList(List<UpgradeStepItem>)",
"deprecated" : false,
"documentation" : "A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. Attempt to...",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "stepsList",
"fluentSetterDocumentation" : "A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

@returns a reference to this object so that method calls can be chained together.
@see #stepsList(List<UpgradeStepItem>)",
"getterDocumentation" : "A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

Attempts to...";
"fluentSetterMethodName" : "stepsList",
"getterDocumentation" : "A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

Attempts to...";
"fluentSetterMethodName" : "stepsList",
"getterDocumentation" : "A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

Attempts to...";
modify the collection returned by this method will result in an UnsupportedOperationException.

@return A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

"getterModel" : {
  "returnType" : "java.util.List<UpgradeStepItem>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StepsList",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StepsList",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "UpgradeStepItem",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [ @link UpgradeStepItem.Builder] avoiding the need to create one manually via [ @link UpgradeStepItem#builder()]. When the [ @link Consumer] completes, [ @link UpgradeStepItem.Builder#build()] is called immediately and its result is passed to [ @link #member(UpgradeStepItem)].

@param member a consumer that will call methods on [ @link UpgradeStepItem.Builder]

@see #member(UpgradeStepItem)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.

"getterModel" : {
  "returnType" : "UpgradeStepItem",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member
The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together."

"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "UpgradeStepItem",
  "variableName" : "member",
  "variableType" : "UpgradeStepItem",
  "documentation" : null,
  "simpleType" : "UpgradeStepItem",
  "variableSetterType" : "UpgradeStepItem"
}.
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "UpgradeStepItem",
  "variableName" : "member",
  "variableType" : "UpgradeStepItem",
  "documentation" : "",
  "simpleType" : "UpgradeStepItem",
  "variableSetterType" : "UpgradeStepItem"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "UpgradeStepItem",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "UpgradeStepItem",
"templateImplType" : "java.util.ArrayList<UpgradeStepItem>",
"templateType" : "java.util.List<UpgradeStepItem>"}
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StepsList",
"setterDocumentation" : "<p>A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.</p>
@param stepsList A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

"setterMethodName" : "setStepsList",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<UpgradeStepItem>",
  "variableName" : "stepsList",
  "variableType" : "java.util.List<UpgradeStepItem>",
  "documentation" : null,
  "simpleType" : "List<UpgradeStepItem>",
  "variableSetterType" : "java.util.Collection<UpgradeStepItem>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<UpgradeStepItem>",
  "variableName" : "stepsList",
  "variableType" : "java.util.List<UpgradeStepItem>",
  "documentation" : "<p>A list of <code><a>UpgradeStepItem</a></code>s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>",
  "simpleType" : "List<UpgradeStepItem>",
  "variableSetterType" : "java.util.Collection<UpgradeStepItem>"
"variableSetterType" : "java.util.Collection<UpgradeStepItem>"
},
"xmlNameSpaceUri" : null
],
"membersAsMap" : {
    "StartTimestamp" : {
        "beanStyleGetterMethodName" : "getStartTimestamp",
        "beanStyleSetterMethodName" : "setStartTimestamp",
        "c2jName" : "StartTimestamp",
        "c2jShape" : "StartTimestamp",
        "defaultConsumerFluentSetterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>This is a convenience that creates an instance of the {@link Instant.Builder} avoiding the need to create one manually via {@link Instant#builder()}. When the {@link Instant.Builder} completes, {@link Instant.Builder#build()} is called immediately and its result is passed to {@link #startTimestamp(Instant)}.

When the @link Instant.Builder\n@returns Returns a reference to this object so that method calls can be chained together.
@see #startTimestamp(Instant)",
"deprecated" : false,
"documentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "startTimestamp",
"fluentSetterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>\n@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "startTimestamp",
"getterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>\n@returns Returns a reference to this object so that method calls can be chained together.",
"getterModel" : {
    "returnType" : "java.time.Instant",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD"
"marshallLocationName" : "StartTimestamp",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "StartTimestamp",
"uri" : false,
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "StartTimestamp",
"setterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>
@param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.",
"setterMethodName" : "setStartTimestamp",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTimestamp",
  "variableType" : "java.time.Instant",
  "documentation" : null,
  "simpleType" : "Instant",
  "variableSetterType" : "java.time.Instant"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTimestamp",
  "variableType" : "java.time.Instant",
  "documentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>
"simpleType" : "Instant",
"variableSetterType" : "java.time.Instant"
},
"xmlNameSpaceUri" : null,
"StepsList" : {
  "beanStyleGetterMethodName" : "getStepsList",
  "beanStyleSetterMethodName" : "setStepsList",
  "c2jName" : "StepsList",
  "c2jShape" : "UpgradeStepsList",
  "defaultConsumerFluentSetterDocumentation" : "<p>A list of <code><a>UpgradeStepItem</a></code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.</p>
\nThis is a convenience that creates an instance of the [ @link List<UpgradeStepItem>.Builder] avoiding the
need to create one manually via `{@link List<UpgradeStepItem>#builder()}`. When the `{@link Consumer}` completes, `{@link List<UpgradeStepItem>.Builder#build()}` is called immediately and its result is passed to `{@link List<UpgradeStepItem>}`.

When the `{@link Consumer}` completes, `{@link List<UpgradeStepItem>.Builder#build()}` is called immediately and its result is passed to `{@link #stepsList(List<UpgradeStepItem>)}

- `@param stepsList` a consumer that will call methods on `{@link List<UpgradeStepItem>.Builder}

@returns Returns a reference to this object so that method calls can be chained together.

```java
@see #stepsList(List<UpgradeStepItem>)
```

- `deprecated` : false,
- `documentation` : "A list of `<code> <a>UpgradeStepItem</a> </code>` s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. 

```java
enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "stepsList",
"fluentSetterDocumentation" : "A list of `<code> <a>UpgradeStepItem</a> </code>` s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

```java
@param stepsList A list of `<code> <a>UpgradeStepItem</a> </code>` s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

```java
@return Returns a reference to this object so that method calls can be chained together."

```java
"fluentSetterMethodName" : "stepsList",
"getterDocumentation" : "A list of `<code> <a>UpgradeStepItem</a> </code>` s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

```java
@param stepsList A list of `<code> <a>UpgradeStepItem</a> </code>` s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.

```java
@return A list of `<code> <a>UpgradeStepItem</a> </code>` s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check."

```java
"getterModel" : {
  "returnType" : "java.util.List<UpgradeStepItem>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StepsList",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StepsList",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"}"
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "UpgradeStepItem",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [ @link UpgradeStepItem.Builder] avoiding the need to create one manually via [ @link UpgradeStepItem#builder()]. When the [ @link Consumer] completes, [ @link UpgradeStepItem.Builder#build()] is called immediately and its result is passed to [ @link #member(UpgradeStepItem)].

@ see #member(UpgradeStepItem),
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@ see #member(UpgradeStepItem),
    "getFluentSetterMethodName" : "member",
    "getFluentSetterMethodDocumentation" : "Sets the value of the Member property for this object.

@ see #member(UpgradeStepItem),
    "getterDocumentation" : "Returns the value of the Member property for this object.

@ return The value of the Member property for this object.
    "getterModel" : {
      "returnType" : "UpgradeStepItem",
      "documentation" : null
    },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "useClientPills" : false
  }
}
"uri": false,
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."

"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "UpgradeStepItem",
  "variableName": "member",
  "variableType": "UpgradeStepItem",
  "documentation": null,
  "simpleType": "UpgradeStepItem",
  "variableSetterType": "UpgradeStepItem"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "UpgradeStepItem",
  "variableName": "member",
  "variableType": "UpgradeStepItem",
  "documentation": "",
  "simpleType": "UpgradeStepItem",
  "variableSetterType": "UpgradeStepItem"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "UpgradeStepItem",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": false,
"simpleType": "UpgradeStepItem",
"templateImplType": "java.util.ArrayList<UpgradeStepItem>",
"templateType": "java.util.List<UpgradeStepItem>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "StepsList"
"setterDocumentation" : "A list of UpgradeStepItem steps representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.
@param stepsList A list of UpgradeStepItem steps representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check."
,"setterMethodName" : "setStepsList",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<UpgradeStepItem>",
  "variableName" : "stepsList",
  "variableType" : "java.util.List<UpgradeStepItem>",
  "documentation" : null,
  "simpleType" : "List<UpgradeStepItem>",
  "variableSetterType" : "java.util.Collection<UpgradeStepItem>"}
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<UpgradeStepItem>",
  "variableName" : "stepsList",
  "variableType" : "java.util.List<UpgradeStepItem>",
  "documentation" : "A list of UpgradeStepItem steps representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check."
},
"xmlNameSpaceUri" : null,
"UpgradeName" : {
  "beanStyleGetterMethodName" : "getUpgradeName",
  "beanStyleSetterMethodName" : "setUpgradeName",
  "c2jName" : "UpgradeName",
  "c2jShape" : "UpgradeName",
  "defaultConsumerFluentSetterDocumentation" : "A string that describes the update briefly

This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String#builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to the consumer that will call methods on the String.Builder\n\n@return Returns a reference to this object so that method calls can be chained together.\n@see #upgradeName(String)",
  "deprecated" : false,
  "documentation" : "A string that describes the update briefly",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "upgradeName",
  "fluentSetterDocumentation" : "A string that describes the update briefly
\n@return Returns a reference to this object so that method calls can be chained together."}
"fluentSetterMethodName" : "upgradeName",
"setterDocumentation" : "\nA string that describes the update briefly\n\n@return A string that describes the update briefly",

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "UpgradeName",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "UpgradeName",
  "uri" : false
},

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING",

"name" : "UpgradeName",

"setterDocumentation" : "\nA string that describes the update briefly\n\n@param upgradeName A string that describes the update briefly",

"setterMethodName" : "setUpgradeName",

"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},

"simple" : true,

"timestampFormat" : null,

"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String"}
"variableType" : "String",
"documentation" : "<p>A string that describes the update briefly</p>",
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpgradeStatus" : {
"beanStyleGetterMethodName" : "getUpgradeStatusAsString",
"beanStyleSetterMethodName" : "setUpgradeStatus",
"c2jName" : "UpgradeStatus",
"c2jShape" : "UpgradeStatus",
"defaultValueConsumerFluentSetterDocumentation" : "<p>The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> This is a convenience that creates an instant of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #upgradeStatusAsString(String)}.\n\n@see UpgradeStatus(String)"
,
"deprecated" : false,
"documentation" : "<p>The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>\n\n@see UpgradeStatus(String)",
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStatus",
"fluentEnumSetterMethodName" : "upgradeStatus",
"fluentGetterMethodName" : "upgradeStatusAsString",
"fluentSetterDocumentation" : "<p>The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>\n\n@see UpgradeStatus\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see UpgradeStatus(String)",
"fluentSetterMethodName" : "upgradeStatus",
"getterDocumentation" : "<p>The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>\n\nIf the service returns an enum value that is not available in the current SDK version, {@link #upgradeStatus} will return {@link UpgradeStatus#UNKNOWN_TO_SDK_VERSION}. The raw value returned by the service is available from {@link #upgradeStatusAsString}.\n\n@return The overall status of the update. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul>\n\n@see UpgradeStatus\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see UpgradeStatus",
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeStatus",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStatus",
"setterDocumentation" : "<p> The overall status of the update. The status can take one of the following values:
@param upgradeStatus The overall status of the update. The status can take one of the following values:
@see UpgradeStatus",
"setterMethodName" : "setUpgradeStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStatus",
  "variableType" : "String",
  "documentation" : "<p> The overall status of the update. The status can take one of the following values:
"xmlNameSpaceUri" : null
},
"nonStreamingMembers" : [ {
"beanStyleGetterMethodName" : "getUpgradeName",
"beanStyleSetterMethodName" : "setUpgradeName",
"c2jName" : "UpgradeName",
"c2jShape" : "UpgradeName",
"defaultConsumerFluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via
[@link String#builder()].
When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to
[@link #upgradeName(String)].
@see #upgradeName(String)",
"deprecated" : false,
"documentation" : "<p>A string that describes the update briefly</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "upgradeName",
"fluentSetterMethodName" : "upgradeName",
"fluentSetterDocumentation" : "<p>A string that describes the update briefly</p>
@see #upgradeName(String)",
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeName",
"uri" : false
},
"getterDocumentation" : "<p>A string that describes the update briefly</p>
@see #upgradeName(String)",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeName",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeName",
"uri" : false
}.
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeName",
"setterDocumentation" : "<p>A string that describes the update briefly</p>
@param upgradeName A string that describes the update briefly",
"setterMethodName" : "setUpgradeName",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeName",
  "variableType" : "String",
  "documentation" : "<p>A string that describes the update briefly</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"beanStyleGetterMethodName" : "getStartTimestamp",
"beanStyleSetterMethodName" : "setStartTimestamp",
"c2jName" : "StartTimestamp",
"c2jShape" : "StartTimestamp",
"defaultConsumerFluentSetterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.
This is a convenience that creates an instance of the { @link Instant.Builder} avoiding the need to create one manually via { @link Instant#builder()}. When the { @link Consumer} completes, { @link Instant.Builder#build()} is called immediately and its result is passed to { @link #startTimestamp(Instant)}.

When the { @link Instant.Builder} is returned Returns a reference to this object so that method calls can be chained together.

@see #startTimestamp(Instant)",
"deprecated" : false,
"documentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "startTimestamp",
"fluentSetterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>
@param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "startTimestamp",
"getterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>
@return UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.",
"getterModel" : {
  "returnType" : "java.time.Instant",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "StartTimestamp",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "StartTimestamp",
  "uri" : false
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"idempotencyToken" : false,
"isBinary" : false,
"JsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "INSTANT",
"name" : "StartTimestamp",
"setterDocumentation" : "<p>UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.</p>
@param startTimestamp UTC Timestamp at which the Upgrade API call was made in \"yyyy-MM-ddTHH:mm:ssZ\" format.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setStartTimestamp",
"setterModel" : {
  "variableDeclarationType" : "java.time.Instant",
  "variableName" : "startTimestamp"}
"variableType": "java.time.Instant",
"documentation": null,
"simpleType": "Instant",
"variableSetterType": "java.time.Instant"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.time.Instant",
  "variableName": "startTimestamp",
  "variableType": "java.time.Instant",
  "documentation": "<p>UTC Timestamp at which the Upgrade API call was made in "yyyy-MM-ddTHH:mm:ssZ" format.</p>",
  "simpleType": "Instant",
  "variableSetterType": "java.time.Instant"
},
"xmlNameSpaceUri": null
},

"beanStyleGetterMethodName": "getUpgradeStatusAsString",
"beanStyleSetterMethodName": "setUpgradeStatus",
"c2jName": "UpgradeStatus",
"c2jShape": "UpgradeStatus",
"defaultConsumerFluentSetterDocumentation": "<p>The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to {@link #upgradeStatusAsString(String)}. @param upgradeStatus a consumer that will call methods on [@link String.Builder] @return Returns a reference to this object so that method calls can be chained together.
@see #upgradeStatus(String)",
"deprecated": false,
"documentation": "<p>The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul></p>",
"enumType": "UpgradeStatus",
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": "upgradeStatus",
"fluentEnumSetterMethodName": "upgradeStatus",
"fluentGetterMethodName": "upgradeStatusAsString",
"fluentSetterDocumentation": "<p>The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul></p>
@param upgradeStatus The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>@see UpgradeStatus
@return Returns a reference to this object so that method calls can be chained together.
@see UpgradeStatus",
"fluentSetterMethodName": "upgradeStatus",
"getterDocumentation": "<p>The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul></p>
"@param upgradeStatus The overall status of the update. The status can take one of the following values: <ul><li>In Progress</li><li>Succeeded</li><li>Succeeded with Issues</li><li>Failed</li></ul>
@see UpgradeStatus
@return Returns a reference to this object so that method calls can be chained together.
@see UpgradeStatus"}
the service returns an enum value that is not available in the current SDK version, \{@link #upgradeStatus\} will return \{@link UpgradeStatus#UNKNOWN_TO_SDK_VERSION\}. The raw value returned by the service is available from \{@link #upgradeStatusAsString\}.

@return The overall status of the update. The status can take one of the following values: <ul>
  <li>In Progress</li>
  <li>Succeeded</li>
  <li>Succeeded with Issues</li>
  <li>Failed</li>
</ul>

@see UpgradeStatus


"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStatus",
  "variableType" : "String",
  "documentation" : "<p> The overall status of the update. The status can take one of the following values: <ul>
    <li>In Progress</li>
    <li>Succeeded</li>
    <li>Succeeded with Issues</li>
    <li>Failed</li>
  </ul> </p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
],
"beanStyleGetterMethodName" : "getStepsList",
"beanStyleSetterMethodName" : "setStepsList",
"c2jName" : "StepsList",
"c2jShape" : "UpgradeStepsList",
"defaultConsumerFluentSetterDocumentation" : "<p> A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. This is a convenience that creates an instance of the {@link List<UpgradeStepItem>.Builder} avoiding the need to create one manually via {@link List<UpgradeStepItem>#builder()}. When the {@link Consumer} completes, {@link List<UpgradeStepItem>.Builder#build()} is called immediately and its result is passed to {@link #stepsList(List<UpgradeStepItem>)}. @param stepsList a consumer that will call methods on {@link List<UpgradeStepItem>.Builder}@return Returns a reference to this object so that method calls can be chained together.@see #stepsList(List<UpgradeStepItem>)",
  "deprecated" : false,
  "documentation" : "<p> A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "stepsList",
  "fluentSetterDocumentation" : "<p> A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. @param stepsList A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "stepsList",
  "getterDocumentation" : "<p> A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.@return A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.",
  "getterModel" : {
    "returnType" : "java.util.List<UpgradeStepItem>",
    "documentation" : null
  },
  "listFluentSetterName" : "stepsList",
  "listFluentSetterType" : "List<UpgradeStepItem>"
}
"http": {
    "additionalMarshallingPath": null,
    "additionalUnmarshallingPath": null,
    "flattened": false,
    "greedy": false,
    "header": false,
    "isPayload": false,
    "isStreaming": false,
    "location": null,
    "marshallLocation": "PAYLOAD",
    "marshallLocationName": "StepsList",
    "queryString": false,
    "statusCode": false,
    "unmarshallLocationName": "StepsList",
    "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"ListModel": {
    "implType": "java.util.ArrayList",
    "interfaceType": "java.util.List",
    "listMemberModel": {
        "beanStyleGetterMethodName": "getMember",
        "beanStyleSetterMethodName": "setMember",
        "c2jName": "member",
        "c2jShape": "UpgradeStepItem",
        "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [ @link UpgradeStepItem.Builder ] avoiding the need to create one manually via [ @link UpgradeStepItem#builder() ]. When the [ @link Consumer ] completes, [ @link UpgradeStepItem.Builder#build() ] is called immediately and its result is passed to [ @link #member(UpgradeStepItem) ].
        
        @param member a consumer that will call methods on [ @link UpgradeStepItem.Builder ]
        
        @return Returns a reference to this object so that method calls can be chained together.
    }@see #member(UpgradeStepItem)",
    "deprecated": false,
    "documentation": "",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "member",
    "fluentSetterDocumentation": "Sets the value of the Member property for this object. The new value for the Member property for this object.
    
    @return Returns a reference to this object so that method calls can be chained together.".,
    "fluentSetterMethodName": "member",
    "getterDocumentation": "Returns the value of the Member property for this object.
    
    @return The value of
the Member property for this object.

getterModel" : {
    "returnType" : "UpgradeStepItem",
    "documentation" : null
},

"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.

@Setter

setterMethodName" : "setMember",

setterModel" : {
    "variableDeclarationType" : "UpgradeStepItem",
    "variableName" : "member",
    "variableType" : "UpgradeStepItem",
    "documentation" : null,
    "simpleType" : "UpgradeStepItem",
    "variableSetterType" : "UpgradeStepItem"
},

"simple" : false,
"timestampFormat" : null,

"variable" : {
    "variableDeclarationType" : "UpgradeStepItem",
    "variableName" : "member",
    "variableType" : "UpgradeStepItem",
    "documentation" : "",
}
"simpleType" : "UpgradeStepItem",
"variableSetterType" : "UpgradeStepItem"
}
,
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "UpgradeStepItem",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : false,
"simpleType" : "UpgradeStepItem",
"templateImplType" : "java.util.ArrayList<UpgradeStepItem>",
"templateType" : "java.util.List<UpgradeStepItem>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "StepsList",
"setterDocumentation" : "<p> A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>
@param stepsList A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check.",
"setterMethodName" : "setStepsList",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<UpgradeStepItem>",
  "variableName" : "stepsList",
  "variableType" : "java.util.List<UpgradeStepItem>",
  "documentation" : null,
  "simpleType" : "List<UpgradeStepItem>",
  "variableSetterType" : "java.util.Collection<UpgradeStepItem>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<UpgradeStepItem>",
  "variableName" : "stepsList",
  "variableType" : "java.util.List<UpgradeStepItem>",
  "documentation" : "<p> A list of <code> <a>UpgradeStepItem</a> </code> s representing information about each step performed as part of a specific Upgrade or Upgrade Eligibility Check. </p>",
  "simpleType" : "List<UpgradeStepItem>",
  "variableSetterType" : "java.util.Collection<UpgradeStepItem>"
},
"xmlNameSpaceUri" : null
}
],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "UpgradeHistory",
"simpleMethod" : false,
"unmarshaller" : {
 "flattened" : false,
 "resultWrapper" : null
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"variable" : {
 "variableDeclarationType" : "UpgradeHistory",
 "variableName" : "upgradeHistory",
 "variableType" : "UpgradeHistory",
 "documentation" : null,
 "simpleType" : "UpgradeHistory",
 "variableSetterType" : "UpgradeHistory"
},
"wrapper" : false
},
"UpgradeStatus" : {
 "c2jName" : "UpgradeStatus",
 "customization" : {
 "artificialResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthOffset" : 0
},
 "deprecated" : false,
 "documentation" : "",
 "enums" : [ {
 "name" : "IN_PROGRESS",
 "value" : "IN_PROGRESS"
 }, {
 "name" : "SUCCEEDED",
 "value" : "SUCCEEDED"
 }, {
 "name" : "SUCCEEDED_WITH_ISSUES",
 "value" : "SUCCEEDED_WITH_ISSUES"
 }, {
 "name" : "FAILED",
 "value" : "FAILED"
 } ],
 "errorCode" : null,
 "event" : false,
 "eventStream" : false,
 "explicitEventPayloadMember" : null,
 "hasHeaderMember" : false,
 "hasPayloadMember" : false,
 "hasStatusCodeMember" : false,
 "hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "UpgradeStatus",
"simpleMethod" : false,
"unmarshaller" : { },
"flattened" : false,
"resultWrapper" : null,
"variable" : { "variableDeclarationType" : "UpgradeStatus",  
"variableName" : "upgradeStatus",  
"variableType" : "UpgradeStatus",  
"documentation" : null,  
"simpleType" : "UpgradeStatus",  
"variableSetterType" : "UpgradeStatus"  
},
"wrapper" : false,
"UpgradeStep" : {  
"c2jName" : "UpgradeStep",  
"customization" : { "artificialResultWrapper" : null,  
"skipGeneratingMarshaller" : false,  
"skipGeneratingModelClass" : false,  
"skipGeneratingUnmarshaller" : false,  
"staxTargetDepthOffset" : 0  
},
"deprecated" : false,
"documentation" : "",  
"enums" : [  
  { "name" : "PRE_UPGRADE_CHECK",  
  "value" : "PRE_UPGRADE_CHECK"  
 },  
  { "name" : "SNAPSHOT",  
  "value" : "SNAPSHOT"  
 },  
  { "name" : "UPGRADE",  
  "value" : "UPGRADE"  
 } ],
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "UpgradeStep",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "UpgradeStep",
  "variableName" : "upgradeStep",
  "variableType" : "UpgradeStep",
  "documentation" : null,
  "simpleType" : "UpgradeStep",
  "variableSetterType" : "UpgradeStep"
},
"wrapper" : false
},
"UpgradeStepItem" : {
  "c2jName" : "UpgradeStepItem",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>Represents a single step of the Upgrade or Upgrade Eligibility Check workflow.</p>",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "httpStatusCode" : null,
  "marshaller" : null,
  "members" : [ ],
  "membersAsMap" : { },
  "nonStreamingMembers" : [ ],
  "requestSignerAware" : false,
  "requestSignerClassFqcn" : null,
  "required" : null,
  "shapeName" : "UpgradeStep",
  "simpleMethod" : false,
  "unmarshaller" : {
    "flattened" : false,
    "resultWrapper" : null
  },
  "variable" : {
    "variableDeclarationType" : "UpgradeStep",
    "variableName" : "upgradeStep",
    "variableType" : "UpgradeStep",
    "documentation" : null,
    "simpleType" : "UpgradeStep",
    "variableSetterType" : "UpgradeStep"
  },
  "wrapper" : false}
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [
  
  "beanStyleGetterMethodName" : "getUpgradeStepAsString",
  "beanStyleSetterMethodName" : "setUpgradeStep",
  "c2jName" : "UpgradeStep",
  "c2jShape" : "UpgradeStep",
  "defaultConsumerFluentSetterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> 
This is a convenience that creates an instance of the [ @link String.Builder] avoiding the need to create one manually via [ @link String.Builder] .
When the [ @link String.Builder] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link UpgradeStepAsString(String)].
@throws upgradeStep a consumer that will call methods on [ @link String.Builder] .
@return Returns a reference to this object so that method calls can be chained together.
@see #upgradeStep(String)",
  "deprecated" : false,
  "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> 
When the [ @link String.Consumer] completes, [ @link String.Builder#build()] is called immediately and its result is passed to [ @link UpgradeStepAsString(String)].
@throws upgradeStep a consumer that will call methods on [ @link String.Builder] .
@return Returns a reference to this object so that method calls can be chained together.
@see #upgradeStep(String)",
  "enumType" : "UpgradeStep",
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "upgradeStep",
  "fluentEnumSetterMethodName" : "upgradeStep",
  "fluentGetterMethodName" : "upgradeStepAsString",
  "fluentSetterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> 
If the service returns an enum value that is not available in the current SDK version, [ @link #upgradeStep] will return [ @link UpgradeStep#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [ @link UpgradeStepAsString].

@throws upgradeStep a consumer that will call methods on [ @link String.Builder] .
@return Returns a reference to this object so that method calls can be chained together.
@see #upgradeStep(String)",
  "getterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> 
If the service returns an enum value that is not available in the current SDK version, [ @link #upgradeStep] will return [ @link UpgradeStep#UNKNOWN_TO_SDK_VERSION]. The raw value returned by the service is available from [ @link UpgradeStepAsString].

@throws upgradeStep a consumer that will call methods on [ @link String.Builder] .
@return Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> 
@see UpgradeStep",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStep",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeStep",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStep",
"setterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
@param upgradeStep
Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
@see UpgradeStep",
"setterMethodName" : "setUpgradeStep",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul>
<li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getUpgradeStepStatusAsString",
"beanStyleSetterMethodName" : "setUpgradeStepStatus",
"c2jName" : "UpgradeStepStatus",
"c2jShape" : "UpgradeStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> The status of a particular step during an upgrade. The
status can take one of the following values: <ul>
<li> In Progress</li>
<li> Succeeded</li>
<li> Succeeded with Issues</li>
<li> Failed</li>
</ul>
This is a convenience that creates an instance of the `String.Builder` avoiding the need to create one manually via `String.Builder()`. When the `Consumer` completes, `String.Builder#build()` is called immediately and its result is passed to `upgradeStepStatusAs(String)`. A `Consumer` that will call methods on `String.Builder` returns a reference to this object so that method calls can be chained together.

```
@deprecated
public String upgradeStepStatus(
    @param upgradeStepStatus
    The status of a particular step during an upgrade. The status can take one of the following values: <ul>
<li> In Progress</li>
<li> Succeeded</li>
<li> Succeeded with Issues</li>
<li> Failed</li>
</ul>
The status of a particular step during an upgrade. The status can take one of the following values: <ul>
<li> In Progress</li>
<li> Succeeded</li>
<li> Succeeded with Issues</li>
<li> Failed</li>
</ul>
```

```
public String upgradeStepStatusAsString(
    @param upgradeStepStatus
    Returns a reference to this object so that method calls can be chained together.
```

```
public String upgradeStepStatusgetAsString(
    @param upgradeStepStatus
    Returns a reference to this object so that method calls can be chained together.
```
"unmarshallLocationName" : "UpgradeStepStatus",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStepStatus",
"setterDocumentation" : "The status of a particular step during an upgrade. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed.

@see UpgradeStatus",
"setterMethodName" : "setUpgradeStepStatus",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "upgradeStepStatus",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "upgradeStepStatus",
   "variableType" : "String",
   "documentation" : "The status of a particular step during an upgrade. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed.

@see UpgradeStatus",
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getIssues",
"beanStyleSetterMethodName" : "setIssues",
"c2jName" : "Issues",
"c2jShape" : "Issues",
"defaultConsumerFluentSetterDocumentation" : "A list of strings containing detailed information about the errors encountered in a particular step.

This is a convenience that creates an instance of the List<String>.Builder avoiding the need to create one manually via List<String>#builder().

When the Consumer completes, List<String>.Builder#build() is called immediately and its result is passed
A list of strings containing detailed information about the errors encountered in a particular step.

@deprecated

@fluent Getter Documentation:

A list of strings containing detailed information about the errors encountered in a particular step.

@see

@returns

A list of strings containing detailed information about the errors encountered in a particular step.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@returns A list of strings containing detailed information about the errors encountered in a particular step.

"getterModel": {
  "returnType": "java.util.List<String>",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "Issues",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "Issues",
  "uri": false
},

"idempotencyToken": false,

"isBinary": false,

"jsonValue": false,

"list": true,

"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "list": true,
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List"}
null

"listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "Issue",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the \{link String.Builder\} avoiding the need to create
one manually via \{link String#builder()\}. When the \{link Consumer\} completes, \{link
String.Builder#build()\} is called immediately and its result is passed to \{link 
#member(String)\}\n
@param member a consumer that will call methods on \{link String.Builder\} \n@return Returns a reference to this object so that method calls can be chained together.
@see #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
The new value for the Member property for this object.\n\n@param member
@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.
\n@return The value of the Member property for this object."
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "member",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "member",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "listMemberModel" : {
        "beanStyleGetterMethodName" : "getMember",
        "beanStyleSetterMethodName" : "setMember",
        "c2jName" : "member",
        "c2jShape" : "Issue",
        "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.
This is a convenience that creates an instance of the \{link String.Builder\} avoiding the need to create
one manually via \{link String#builder()\}. When the \{link Consumer\} completes, \{link
String.Builder#build()\} is called immediately and its result is passed to \{link 
#member(String)\}\n
@param member a consumer that will call methods on \{link String.Builder\} \n@return Returns a reference to this object so that method calls can be chained together.
@see #member(String)",
        "deprecated" : false,
        "documentation" : "",
        "enumType" : null,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : null,
        "fluentEnumSetterMethodName" : null,
        "fluentGetterMethodName" : "member",
        "fluentSetterDocumentation" : "Sets the value of the Member property for this object.
The new value for the Member property for this object.\n\n@param member
@return Returns a reference to this object so that method calls can be chained together.",
        "fluentSetterMethodName" : "member",
        "getterDocumentation" : "Returns the value of the Member property for this object.
\n@return The value of the Member property for this object."
        "getterModel" : {
            "returnType" : "String",
            "documentation" : null
        },
        "http" : {
            "additionalMarshallingPath" : null,
            "additionalUnmarshallingPath" : null,
            "flattened" : false,
            "greedy" : false,
            "header" : false,
            "isPayload" : false,
            "isStreaming" : false,
            "location" : null,
            "marshallLocation" : "PAYLOAD",
            "marshallLocationName" : "member",
            "queryString" : false,
            "statusCode" : false,
            "unmarshallLocationName" : "member",
            "uri" : false
        },
        "idempotencyToken" : false,
        "isBinary" : false,
        "jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
\n\n@param member The new value for the Member property for this object."
"setterMethodName" : "setMember",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "member",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "member",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,

"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",

},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "Issues",
"setterDocumentation" : "A list of strings containing detailed information about the errors encountered in a particular step.
\n\n@param issues A list of strings containing detailed information about the errors encountered in a particular step."
"setterMethodName" : "setIssues",
"setterModel" : {
}
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "issues",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>
",
"simple" : false,
"timestampFormat" : null,
"variable" :
{
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "issues",
"variableType" : "java.util.List<String>",
"documentation" : "A list of strings containing detailed information about the errors encountered in a
particular step.",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>
",
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getProgressPercent",
"beanStyleSetterMethodName" : "setProgressPercent",
"c2jName" : "ProgressPercent",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "The Floating point value representing progress percentage of a particular step.
This is a convenience that creates an instance of the { @link Double.Builder} avoiding the need to create one manually via { @link Double#builder()}. When the { @link Consumer} completes, { @link Double.Builder#build()} is called immediately and its result is passed to { @link
#progressPercent(Double)}.\n@param progressPercent a consumer that will call methods on { @link Double.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #progressPercent(Double)",
"deprecated" : false,
"documentation" : "The Floating point value representing progress percentage of a particular step.",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "progressPercent",
"fluentSetterDocumentation" : "The Floating point value representing progress percentage of a particular step.\n\n@return Returns a reference to this object so that method calls can be chained together.\n",
"getterDocumentation" : "The Floating point value representing progress percentage of a particular step.\n",
"getterModel" :
{
"returnType" : "Double",
"documentation" : null
}
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "ProgressPercent",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "ProgressPercent",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "ProgressPercent",
"setterDocumentation": "<p>The Floating point value representing progress percentage of a particular step.</p><p>@param progressPercent The Floating point value representing progress percentage of a particular step.</p>",
"setterMethodName" : "setProgressPercent",
"setterModel" : {
  "variableDeclarationType" : "Double",
  "variableName" : "progressPercent",
  "variableType" : "Double",
  "documentation" : null,
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "Double",
  "variableName" : "progressPercent",
  "variableType" : "Double",
  "documentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>",
  "simpleType" : "Double",
  "variableSetterType" : "Double"
},
"xmlNameSpaceUri" : null
"membersAsMap" : {
  "Issues" : {
    "beanStyleGetterMethodName" : "getIssues",
    "beanStyleSetterMethodName" : "setIssues",
    "c2jName" : "Issues",
    "c2jShape" : "Issues",
    "defaultConsumerFluentSetterDocumentation" : "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>
    This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}.
    When the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #issues(List<String>)}. Returns a reference to this object so that method calls can be chained together.
    "@see #issues(List<String>)",
    "deprecated" : false,
    "documentation" : "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "issues",
    "fluentSetterMethodName" : "issues",
    "fluentSetterDocumentation" : "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>
    A list of strings containing detailed information about the errors encountered in a particular step.
    Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
    </p>
    A list of strings containing detailed information about the errors encountered in a particular step.
    "@return A list of strings containing detailed information about the errors encountered in a particular step.
    
    
    "getterModel" : {
      "returnType" : "java.util.List<String>",
      "documentation" : null
    },
    "http" : {
      "additionalMarshallingPath" : null,
      "additionalUnmarshallingPath" : null,
      "flattened" : false,
      "greedy" : false,
      "header" : false,
      "isPayload" : false,
      "isStreaming" : false,
      "location" : null,
      "marshallLocation" : "PAYLOAD",
      "marshallLocationName" : "Issues",
      "queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Issues",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "Issue",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [Link String.Builder] avoiding the need to create one manually via [Link String.Builder#builder()].\nWhen the [Link Consumer] completes, [Link String.Builder#build()] is called immediately and its result is passed to [Link #member(String)].\n\n@param member a consumer that will call methods on [Link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : "null",
  "fluentEnumSetterMethodName" : "null",
  "fluentGetterMethodName" : "member",
  "fluentSetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : "null",
    "additionalUnmarshallingPath" : "null",
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>"
"templateType" : "java.util.List<String>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "Issues",
"setterDocumentation" : "A list of strings containing detailed information about the errors encountered in a particular step.

@para

\texttt{issues} A list of strings containing detailed information about the errors encountered in a particular step.

@para

setterMethodName" : "setIssues",
"setterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "issues",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "issues",
"variableType" : "java.util.List<String>",
"documentation" : "A list of strings containing detailed information about the errors encountered in a particular step.

@para

setterMethodName" : "setIssues",
"setterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "issues",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "issues",
"variableType" : "java.util.List<String>",
"documentation" : "A list of strings containing detailed information about the errors encountered in a particular step.

@para

setterMethodName" : "setIssues",
"setterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "issues",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "issues",
"variableType" : "java.util.List<String>",
"documentation" : "A list of strings containing detailed information about the errors encountered in a particular step.

@para

defaultConsumerFluentSetterDocumentation" : "

@para

This is a convenience that creates an instance of the \{@link Double.Builder\} avoiding the need to create one manually via \{@link Double.Builder\}.\n
When the \{@link Consumer\} completes, \{@link Double.Builder\} is called immediately and its result is passed to \{@link #progressPercent(Double)\}.\n
@para

progressPercent a consumer that will call methods on \{@link Double.Builder\}\n
@para

\texttt{return} Returns a reference to this object so that method calls can be chained together.\n
@para


@para

\texttt{progressPercent(Double)}",
"deprecated" : false,
"documentation" : "The Floating point value representing progress percentage of a particular step.\n
This is a convenience that creates an instance of the \{@link Double.Builder\} avoiding the need to create one manually via \{@link Double.Builder\}.

When the \{@link Consumer\} completes, \{@link Double.Builder\} is called immediately and its result is passed to \{@link #progressPercent(Double)\}.

\texttt{returns} Returns a reference to this object so that method calls can be chained together.\n
@para

progressPercent\texttt{()}",
"deprecated" : false,
"documentation" : "The Floating point value representing progress percentage of a particular step.\n
This is a convenience that creates an instance of the \{@link Double.Builder\} avoiding the need to create one manually via \{@link Double.Builder\}.

When the \{@link Consumer\} completes, \{@link Double.Builder\} is called immediately and its result is passed to \{@link #progressPercent(Double)\}.

\texttt{returns} Returns a reference to this object so that method calls can be chained together.\n
@para


"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "progressPercent",
"fluentSetterDocumentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>
@param progressPercent The Floating point value representing progress percentage of a particular step.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "progressPercent",
"getterDocumentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>
@return The Floating point value representing progress percentage of a particular step."

"getterModel" : {
   "returnType" : "Double",
   "documentation" : null
},

"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "ProgressPercent",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "ProgressPercent",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
"name" : "ProgressPercent",
"setterDocumentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>
@param progressPercent The Floating point value representing progress percentage of a particular step."

"setterMethodName" : "setProgressPercent",
"setterModel" : {
   "variableDeclarationType" : "Double",
   "variableName" : "progressPercent",
   "variableType" : "Double",
   "documentation" : null,
   "simpleType" : "Double",
   "variableSetterType" : "Double"}
Represented one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
@see UpgradeStep

- Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>

- Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>

- Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"UpgradeStepStatus" : {
"beanStyleGetterMethodName" : "getUpgradeStepStatusAsString",
"beanStyleSetterMethodName" : "setUpgradeStepStatus",
"c2jName" : "UpgradeStepStatus",
"c2jShape" : "UpgradeStatus",
"defaultConsumerFluentSetterDocumentation" : "<p>The status of a particular step during an upgrade. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
This is a convenience that creates an instance of the @link String.Builder
avoiding the need to create one manually via @link String#builder().
When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to
@link #upgradeStepStatusAsString(String)).
@returns a reference to this object so that method calls can be chained together.
@see #upgradeStepStatusAsString(String)",
"deprecated" : false,
"documentation" : "<p>The status of a particular step during an upgrade. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
</p>",
"enumType" : "UpgradeStatus",
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : "upgradeStepStatus",
"fluentEnumSetterMethodName" : "upgradeStepStatus",
"fluentGetterMethodName" : "upgradeStepStatusAsString",
"fluentSetterDocumentation" : "<p>The status of a particular step during an upgrade. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
</p>",
"getterDocumentation" : "<p>The status of a particular step during an upgrade. The status can take one of the following values: <ul>
<li>In Progress</li>
<li>Succeeded</li>
<li>Succeeded with Issues</li>
<li>Failed</li>
</ul>
@returns a reference to this object so that method calls can be chained together.
@see UpgradeStatus",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStepStatus",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeStepStatus",
"uri" : false
],
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStepStatus",
"setterDocumentation" : "The status of a particular step during an upgrade. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> @see UpgradeStatus",
"setterMethodName" : "setUpgradeStepStatus",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStepStatus",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStepStatus",
  "variableType" : "String",
  "documentation" : "The status of a particular step during an upgrade. The status can take one of the following values: <ul> <li>In Progress</li> <li>Succeeded</li> <li>Succeeded with Issues</li> <li>Failed</li> </ul> "
},
"simpleType" : "String",
"variableSetterType" : "String"
"nonStreamingMembers" : [ { 
  "beanStyleGetterMethodName" : "getUpgradeStepAsString",
  "beanStyleSetterMethodName" : "setUpgradeStep",
  "c2jName" : "UpgradeStep",
  "c2jShape" : "UpgradeStep",
  "defaultValue" : "unknown_to_sdk_version",
  "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
</p>
"><p> Returns a reference to this object so that method calls can be chained together.<br/>
@see #upgradeStep(String)",
  "deprecated" : false,
  "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
</p>
"><p> Returns a reference to this object so that method calls can be chained together.<br/>
@see UpgradeStep
@return Returns a reference to this object so that method calls can be chained together.<br/>
@see UpgradeStep",
  "getterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul>
</p>
"><p> Returns a reference to this object so that method calls can be chained together.<br/>
@see UpgradeStep
@return Returns a reference to this object so that method calls can be chained together.<br/>
@see UpgradeStep",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "xmlNameSpaceUri" : null
  }
}]}
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "UpgradeStep",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "UpgradeStep",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "UpgradeStep",
"setterDocumentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>
@see UpgradeStep",
"setterMethodName" : "setUpgradeStep",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "upgradeStep",
  "variableType" : "String",
  "documentation" : "<p> Represents one of 3 steps that an Upgrade or Upgrade Eligibility Check does through: <ul> <li>PreUpgradeCheck</li> <li>Snapshot</li> <li>Upgrade</li> </ul> </p>"
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getUpgradeStepStatusAsString",
"beanStyleSetterMethodName" : "setUpgradeStepStatus",
"c2jName" : "UpgradeStepStatus",
"c2jShape" : "UpgradeStatus",

"isStreaming" : false,
"location" : null,
The status of a particular step during an upgrade. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed. This is a convenience that creates an instance of the String.Builder avoiding the need to create one manually via String.Builder(). When the Consumer completes, String.Builder#build() is called immediately and its result is passed to upgradeStepStatusAsString(String). @param upgradeStepStatus a consumer that will call methods on String.Builder@return Returns a reference to this object so that method calls can be chained together.@see upgradeStepStatus(String),

The status of a particular step during an upgrade. The status can take one of the following values: In Progress, Succeeded, Succeeded with Issues, Failed.

This is a convenience that creates an instance of the `List<String>.Builder` avoiding the need to create one manually via `List<String>#builder()`.

When the
{@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #issues(List<String>)}.\n@param issues a consumer that will call methods on {@link List<String>.Builder}\n@returns Returns a reference to this object so that method calls can be chained together.\n@see #issues(List<String>)

"deprecated" : false,
"documentation" : "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "issues",
"fluentSetterDocumentation" : "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>@returns Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "issues",
"getterDocumentation" : "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@returns A list of strings containing detailed information about the errors encountered in a particular step."

"getterModel" : {

"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {

"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Issues",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Issues",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {

"implType" : "java.util.ArrayList",
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"interfaceType" : "java.util.List",
"listMemberModel" : {
  "beanStyleGetterMethodName" : "getMember",
  "beanStyleSetterMethodName" : "setMember",
  "c2jName" : "member",
  "c2jShape" : "Issue",
  "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].\n@param member a consumer that will call methods on [@link String.Builder]\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
  "deprecated" : false,
  "documentation" : "",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "member",
  "getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object.",
  "getterModel" : {
    "returnType" : "String",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "member",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "member",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object. @param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null,
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "Issues",
"setterDocumentation": "<p>A list of strings containing detailed information about the errors encountered in a particular step.</p>\
@param issues A list of strings containing detailed information about the errors encountered in a particular step.",
"setterMethodName": "setIssues",
"setterModel" : {
    "variableDeclarationType" : "java.util.List<String>",
    "variableName" : "issues",
    "variableType" : "java.util.List<String>",
    "documentation" : null,
    "simpleType" : "List<String>",
    "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.List<String>",
    "variableName" : "issues",
    "variableType" : "java.util.List<String>",
    "documentation" : "<p>A list of strings containing detailed information about the errors encountered in a
particular step.</p>",
    "simpleType" : "List<String>",
    "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getProgressPercent",
"beanStyleSetterMethodName" : "setProgressPercent",
"c2jName" : "ProgressPercent",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "<p>The Floating point value representing progress percentage of a
particular step. This is a convenience that creates an instance of the \{ @link Double.Builder \} avoiding the
need to create one manually via \{ @link Double#builder() \}. When the \{ @link Consumer \} completes, \{ @link
Double.Builder#build() \} is called immediately and its result is passed to \{ @link
#progressPercent(Double)\}.\n@param progressPercent a consumer that will call methods on \{ @link
Double.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see
#progressPercent(Double)",
"deprecated" : false,
"documentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "progressPercent",
"fluentSetterDocumentation" : "<p>The Floating point value representing progress percentage of a particular
step.</p>\n@param progressPercent The Floating point value representing progress percentage of a particular
step.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "progressPercent",
"getterDocumentation" : "<p>The Floating point value representing progress percentage of a particular
step.</p>\n@return The Floating point value representing progress percentage of a particular step.",
"getterModel" : {
    "returnType" : "Double",
"setterModel" : {
    "variableDeclarationType" : "java.util.List<String>",
    "variableName" : "issues",
    "variableType" : "java.util.List<String>",
    "documentation" : null,
    "simpleType" : "List<String>",
    "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.List<String>",
    "variableName" : "issues",
    "variableType" : "java.util.List<String>",
    "documentation" : null,
    "simpleType" : "List<String>",
    "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getProgressPercent",
"beanStyleSetterMethodName" : "setProgressPercent",
"c2jName" : "ProgressPercent",
"c2jShape" : "Double",
"defaultConsumerFluentSetterDocumentation" : "<p>The Floating point value representing progress percentage of a
particular step. This is a convenience that creates an instance of the \{ @link Double.Builder \} avoiding the
need to create one manually via \{ @link Double#builder() \}. When the \{ @link Consumer \} completes, \{ @link
Double.Builder#build() \} is called immediately and its result is passed to \{ @link
#progressPercent(Double)\}.\n@param progressPercent a consumer that will call methods on \{ @link
Double.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see
#progressPercent(Double)",
"deprecated" : false,
"documentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "progressPercent",
"fluentSetterDocumentation" : "<p>The Floating point value representing progress percentage of a particular
step.</p>\n@param progressPercent The Floating point value representing progress percentage of a particular
step.\n@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "progressPercent",
"getterDocumentation" : "<p>The Floating point value representing progress percentage of a particular
step.</p>\n@return The Floating point value representing progress percentage of a particular step.",
"getterModel" : {
    "returnType" : "Double",}
"documentation" : null
},
"http" : {
 "additionalMarshallingPath" : null,
 "additionalUnmarshallingPath" : null,
 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "ProgressPercent",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "ProgressPercent",
 "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "DOUBLE",
 "name" : "ProgressPercent",
 "setterDocumentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>
 @param progressPercent The Floating point value representing progress percentage of a particular step.",
 "setterMethodName" : "setProgressPercent",
 "setterModel" : {
 "variableDeclarationType" : "Double",
 "variableName" : "progressPercent",
 "variableType" : "Double",
 "documentation" : null,
 "simpleType" : "Double",
 "variableSetterType" : "Double"
 },
 "simple" : true,
 "timestampFormat" : null,
 "variable" : {
 "variableDeclarationType" : "Double",
 "variableName" : "progressPercent",
 "variableType" : "Double",
 "documentation" : "<p>The Floating point value representing progress percentage of a particular step.</p>",
 "simpleType" : "Double",
 "variableSetterType" : "Double"
 },
"xmlNameSpaceUri" : null,
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "UpgradeStepItem",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "UpgradeStepItem",
  "variableName" : "upgradeStepItem",
  "variableType" : "UpgradeStepItem",
  "documentation" : null,
  "simpleType" : "UpgradeStepItem",
  "variableSetterType" : "UpgradeStepItem"
},
"wrapper" : false,
"VPCDerivedInfo" : {
  "c2jName" : "VPCDerivedInfo",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "Options to specify the subnets and security groups for VPC endpoint. For more
  information, see <a href="http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html"\n  target="_blank"> VPC Endpoints for Amazon Elasticsearch Service Domains</a>.",
  "enums" : null,
  "errorCode" : null,
  "event" : false,
  "eventStream" : false,
  "explicitEventPayloadMember" : null,
  "hasHeaderMember" : false,
  "hasPayloadMember" : false,
  "hasStatusCodeMember" : false,
  "hasStreamingMember" : false,
  "httpStatusCode" : null,
  " marshaller" : null,
  "members" : [
    "beanStyleGetterMethodName" : "getVpcId",
    "beanStyleSetterMethodName" : "setVpcId",
  ]
}
"c2jName" : "VPCId",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if
the domain was created with VPCOptions.</p>

This is a convenience that creates an instance of theSCRIPTOR String.Builder avoiding the need to create one manually via @link String.Builder().

When the @link Consumer completes, @link String.Builder#build() is called immediately and its result is passed to @link #vpcId(String).

@n@return Returns a reference to this object so that method calls can be chained together.

@see #vpcId(String)"

"deprecated" : false,
"documentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "vpcId",
"fluentSetterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was
created with VPCOptions.</p>

@n@return Returns a reference to this object so that method calls can be chained together.

@see #vpcId(String)"

"fluentSetterMethodName" : "vpcId",
"getterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

@n@return The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

@see #vpcId(String)"

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "VPCId",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "VPCId",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "VPCId",
"setterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
@param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
"setterMethodName" : "setVpcId",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "vpcId",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "vpcId",
  "variableType" : "String",
  "documentation" : "&lt;p&gt;The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.&lt;/p&gt;",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,

"defaultConsumerFluentSetterDocumentation" : "&lt;p&gt;Specifies the subnets for VPC endpoint.&lt;/p&gt;&lt;\n&gt;This is a convenience that creates an instance of the {@link List&lt;String&gt;}.Builder avoiding the need to create one manually via {@link List&lt;String&gt;#builder()}.&lt;\n&gt;When the {@link Consumer} completes, {@link List&lt;String&gt;#builder()} is called immediately and its result is passed to the returned a reference to this object so that method calls can be chained together.&lt;\n&gt;@see #subnetIds(List&lt;String&gt;)",
  "deprecated" : false,
  "documentation" : "&lt;p&gt;Specifies the subnets for VPC endpoint.&lt;/p&gt;",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "subnetIds",
"fluentSetterDocumentation" : "\<p\>Specifies the subnets for VPC endpoint.<\p\>\n@\param \ subnetIds Specifies the subnets for VPC endpoint.\n\n@return\nReturns a reference to this object so that method calls can be chained together.\","fluentSetterMethodName" : "subnetIds",
"getterDocumentation" : "\<p\>Specifies the subnets for VPC endpoint.<\p\>\nAttempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n\n@return\nSpecifies the subnets for VPC endpoint.\n",
"getterModel" : {  
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "SubnetIds",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "SubnetIds",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [\@link String.Builder] avoiding the need to create
one manually via [\@link String#builder()].\n\nWhen the [\@link Consumer] completes, [\@link String.Builder#build()] is called immediately and its result is passed to [\@link #member(String)].\n\n@param\nmember a consumer that will call methods on [\@link String.Builder]\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #member(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterMethodName" : "member",
"FluentSetterDocumentation" : "Sets the value of the Member property for this object.
@param member
The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.
@return The value of the Member property for this object.",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.
@param member
The new value for the Member property for this object.

The new value for the Member property for this object.
@return Returns a reference to this object so that method calls can be chained together.",
"setterMethodName" : "setMember",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String"
},
"variableType" : "String"
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>
}]

"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.",
"setterMethodName" : "setSubnetIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",}
"documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
}, {

"beanStyleGetterMethodName" : "getAvailabilityZones",
"beanStyleSetterMethodName" : "setAvailabilityZones",
"c2jName" : "AvailabilityZones",
"c2jShape" : "StringList",
"defaultConsumerFluentSetterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

This is a convenience that creates an instance of the { @link List<String>.Builder} avoiding the need to create one manually via { @link List<String>#builder()}.

When the { @link Consumer} completes, { @link List<String>.Builder#build()} is called immediately and its result is passed to { @link availabilityZones(List<String>)}. When the { @link List<String>.Builder} returns a reference to this object so that method calls can be chained together.

@see #availabilityZones(List<String>)",
"deprecated" : false,
"documentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "availabilityZones",
"fluentSetterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

@see #availabilityZones(List<String>)",
"getterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

@see #availabilityZones(List<String>)",
"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AvailabilityZones",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AvailabilityZones",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the \n{@link String.Builder} avoiding the need to create
one manually via \n{@link String#createStringBuilder()}\.\nWhen the \n{@link Consumer} completes, \n{@link String.Builder#build()} is called immediately and its result is passed to \n{@link String#builder()}.\n\n@see #member(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.\n\n@returns \nThe value of the Member property for this object.\n",
"getterModel" : {
"returnType" : "String",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>",
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "AvailabilityZones",
"setterDocumentation": "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p><param availabilityZones The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
"setterMethodName": "setAvailabilityZones",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "availabilityZones",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "availabilityZones",
  "variableType": "java.util.List<String>",
  "documentation": "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"xmlNameSpaceUri": null,

"beanStyleGetterMethodName": "getSecurityGroupIds",
"beanStyleSetterMethodName": "setSecurityGroupIds",
"c2jName": "SecurityGroupIds",
"c2jShape": "StringList",
"defaultConsumerFluentSetterDocumentation": "<p>Specifies the security groups for VPC endpoint.</p><\nThis is a convenience that creates an instance of the {@link List<String>}.Builder avoiding the need to create one manually via {@link List<String>}.Builder().\nWhen the {@link Consumer} completes, {@link List<String>}.Builder#build() is called immediately and its result is passed to {@link SecurityGroupIds(List<String>)}.\n\n@see #securityGroupIds(List<String>)",
"deprecated": false,
"documentation": "<p>Specifies the security groups for VPC endpoint.</p>",
"enumType": null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentMethodName" : "securityGroupIds",
"fluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.”,
"fluentSetterMethodName" : "securityGroupIds",
"getterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
<p>Attempts to modify the collection returned by this method will result in a UnsupportedOperationException.</p>
@return Specifies the security groups for VPC endpoint.”,
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SecurityGroupIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SecurityGroupIds",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the @link String.Builder] avoiding the need to create one manually via @link String#builder()].

When the @link Consumer] completes, @link String.Builder#build() is called immediately and its result is passed to @link #member(String)]
"param
member a consumer that will call methods on \{ @link String.Builder}nn@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)\n
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n\n@param member The new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together.",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n\n\n@return The value of the Member property for this object."
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
        "additionalMarshallingPath" : null,
        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "member",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "member",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
    "map" : false,
    "mapModel" : null,
    "marshallingType" : "STRING",
    "name" : "Member",
    "setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."
    "setterMethodName" : "setMember"
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>",
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "SecurityGroupIds",
"setterDocumentation": "<p>Specifies the security groups for VPC endpoint.</p>\n@param securityGroupIds Specifies the security groups for VPC endpoint."
,"setterMethodName": "setSecurityGroupIds",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "securityGroupIds",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
},
"simple": false,
"timestampFormat": null,
"variable": {
"setterModel": {
"variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"setterModel": {
"variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"setterModel": {
"variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"setterModel": {
"variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"setterModel": {
"variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"setterModel": {
"variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"setterModel": {
"variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
"setterModel": {
"variableDeclarationType": "String",
"variableName": "member",
"variableType": "String",
"documentation": null,
"simpleType": "String",
"variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "securityGroupIds",
"variableType" : "java.util.List<String>",
"documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
}]
"membersAsMap" : {
"AvailabilityZones" : {
"beanStyleGetterMethodName" : "getAvailabilityZones",
"beanStyleSetterMethodName" : "setAvailabilityZones",
"c2jName" : "AvailabilityZones",
"c2jShape" : "StringList",
"defaultConsumerFluentSetterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

This is a convenience that creates an instance of the
[@link List<String>.Builder] avoiding the need to create one manually via
[@link List<String>#builder()].

When the [@link Consumer] completes, [@link List<String>.Builder#build()] is
called immediately and its result is passed to
[@link availabilityZones(List<String>)].

@default

A consumer that will call methods on
[@link List<String>.Builder]

@see #availabilityZones(List<String>)

@deprecated : false,
"documentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "availabilityZones",
"fluentSetterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

@param availabilityZones The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

@see #availabilityZones(List<String>)

@return Returns a reference to this object so that method calls can be chained together.
"deprecation" : false,
"documentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

@see #availabilityZones(List<String>)

@deprecated : false,
"documentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

@see #availabilityZones(List<String>)

@return Returns a reference to this object so that method calls can be chained together.
"setterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

Attempts to modify the collection returned by this method will result in
an UnsupportedOperationException.

@see #availabilityZones(List<String>)

@return The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"required" : false,
"isSimple" : false}
}
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "AvailabilityZones",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "AvailabilityZones",
"uri" : false
",
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [link String.Builder] avoiding the need to create one manually via [link String#builder()]. When the [link Consumer] completes, [link String.Builder#build()] is called immediately and its result is passed to [link #member(String)].

@see #member(String)"
  },
  "documentation" : ".",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "member",
  "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object,

@see #member(String)"
  },
  "returnType" : "String",
  "documentation" : null
  }
};

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"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "member",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "member",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
}
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "AvailabilityZones",
"setterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p><@param availabilityZones The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
"setterMethodName" : "setAvailabilityZones",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "availabilityZones",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "availabilityZones",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
},
"xmlNameSpaceUri" : null
},
"SecurityGroupIds" : {
  "beanStyleGetterMethodName" : "getSecurityGroupIds",
  "beanStyleSetterMethodName" : "setSecurityGroupIds",
  "c2jName" : "SecurityGroupIds",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p><@link List<String>.Builder\$build()\n\nWhen the @link Consumer completes, \@link List<String>.Builder\$build() is called immediately and its result is passed to \@link
#securityGroupIds(List<String>)\n@methodCall securityGroupIds a consumer that will call methods on [ @link List<String>.Builder]\n@methodReturn Returns a reference to this object so that method calls can be chained together.\n@see #securityGroupIds(List<String>)

"deprecated" : false,
"documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "securityGroupIds",
"fluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "securityGroupIds",
"getterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
<p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return Specifies the security groups for VPC endpoint.
"getterModel" : {
  "returnType" : "java.util.List<String>",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "SecurityGroupIds",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "SecurityGroupIds",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
}}
"c2jName" : "member",
"c2jShape" : "String",
"defaultValue" : "This is a convenience that creates an instance of the \{ @link String.Builder \} avoiding the need to create one manually via \{ @link String#builder() \}. When the \{ @link Consumer \} completes, \{ @link String.Builder#build() \} is called immediately and its result is passed to \{ @link #member(String) \}.\n@param member a consumer that will call methods on \{ @link String.Builder\}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)",
"getterDocumentation" : "Returns the value of the Member property for this object.\n@return The value of the Member property for this object."
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
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  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SecurityGroupIds",
"setterDocumentation" : "<p>Specifies the security groups for VPC endpoint.\n@end
@param securityGroupIds Specifies the security groups for VPC endpoint.\n</p>",
"setterMethodName" : "setSecurityGroupIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>",
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>
",
  "xmlNameSpaceUri" : null
},
"SubnetIds" : {
  "beanStyleGetterMethodName" : "getSubnetIds",
  "beanStyleSetterMethodName" : "setSubnetIds",
  "c2jName" : "SubnetIds",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {@link #subnetIds(List<String>)}. When the {@link Consumer} completes, {@link 
List<String>.Builder#build()} is called immediately and its result is passed to {@link 
List<String>#subnetIds(List<String>)}.\n@see #subnetIds(List<String>)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "subnetIds",
  "fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.
@see #subnetIds(List<String>)",
  "getterDocumentation" : "
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
"\n@see #subnetIds",
  "getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SubnetIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SubnetIds",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the (@link String.Builder) avoiding the need to create
one manually via (@link String#builder()). When the (@link Consumer) completes, (@link
String.Builder#build()) is called immediately and its result is passed to (@link #member(String))
@see #member(String)",
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object.
@see #member(String)",
"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.
@see #member(String)",
"getterModel" : {
"returnType" : "String"}
“documentation” : null
],
"http" : {
 "additionalMarshallingPath" : null,
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 "flattened" : false,
 "greedy" : false,
 "header" : false,
 "isPayload" : false,
 "isStreaming" : false,
 "location" : null,
 "marshallLocation" : "PAYLOAD",
 "marshallLocationName" : "member",
 "queryString" : false,
 "statusCode" : false,
 "unmarshallLocationName" : "member",
 "uri" : false
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"jsonValue" : false,
"list" : false,
 "listModel" : null,
 "map" : false,
 "mapModel" : null,
 "marshallingType" : "STRING",
 "name" : "Member",
 "setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
 "setterMethodName" : "setMember",
 "setterModel" : {
 "variableDeclarationType" : "String",
 "variableName" : "member",
 "variableType" : "String",
 "documentation" : null,
 "simpleType" : "String",
 "variableSetterType" : "String"
 },
 "simple" : true,
 "timestampFormat" : null,
 "variable" : {
 "variableDeclarationType" : "String",
 "variableName" : "member",
 "variableType" : "String",
 "documentation" : "",
 "simpleType" : "String",
 "variableSetterType" : "String"
}
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
}
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p><@param subnetIds Specifies the subnets for VPC endpoint."
"setterMethodName" : "setSubnetIds",
"setterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "subnetIds",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "subnetIds",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"VPCId" : {
"beanStyleGetterMethodName" : "getVpcId",
"beanStyleSetterMethodName" : "setVpcId",
"c2jName" : "VPCId",
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p><@p>This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String#builder()}.\n\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link String.Builder#build()}"
}
# vpcId(String)

@param vpcId a consumer that will call methods on {@link String.Builder}

@return Returns a reference to this object so that method calls can be chained together.

@see #vpcId(String)"

"deprecated": false,
"documentation": "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
"enumType": null,
"eventId": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "vpcId",
"fluentSetterDocumentation": "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName": "vpcId",
"getterDocumentation": "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>

@return The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

@returns The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

"getterModel": {
  "returnType": "String",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "VPCId",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "VPCId",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "VPCId",
"setterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>\n@<param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
"setterMethodName" : "setVpcId",
"setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "vpcId",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "vpcId",
    "variableType" : "String",
    "documentation" : "$<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
    "simpleType" : "String",
    "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,

"nonStreamingMembers" : [ {
    "beanStyleGetterMethodName" : "getVpcId",
    "beanStyleSetterMethodName" : "setVpcId",
    "c2jName" : "VPCId",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "$<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>
This is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #vpcId(String)}.\n@<param vpcId a consumer that will call methods on \{@link String.Builder\}@\n@return Returns a reference to this object so that method calls can be chained together."@\n@see #vpcId(String)"",
    "deprecated" : false,
    "documentation" : "$<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "vpcId",
    "fluentSetterDocumentation" : "$<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>\n@<param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions."
was created with VPCOptions.\n\n@return Returns a reference to this object so that method calls can be chained
together.",
    "fluentSetterMethodName" : "vpcId",
    "getterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created
with VPCOptions.</p>\n\n@return The VPC Id for the Elasticsearch domain. Exists only if the domain was created
with VPCOptions.",
    "getterModel" : {
        "returnType" : "String",
        "documentation" : null
    },
    "http" : {
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        "additionalUnmarshallingPath" : null,
        "flattened" : false,
        "greedy" : false,
        "header" : false,
        "isPayload" : false,
        "isStreaming" : false,
        "location" : null,
        "marshallLocation" : "PAYLOAD",
        "marshallLocationName" : "VPCId",
        "queryString" : false,
        "statusCode" : false,
        "unmarshallLocationName" : "VPCId",
        "uri" : false
    },
    "idempotencyToken" : false,
    "isBinary" : false,
    "jsonValue" : false,
    "list" : false,
    "listModel" : null,
    "map" : false,
    "mapModel" : null,
    "marshallingType" : "STRING",
    "name" : "VPCId",
    "setterDocumentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created
with VPCOptions.</p>\n\n@param vpcId The VPC Id for the Elasticsearch domain. Exists only if the domain was created
with VPCOptions.",
    "setterMethodName" : "setVpcId",
    "setterModel" : {
        "variableDeclarationType" : "String",
        "variableName" : "vpcId",
        "variableType" : "String",
        "documentation" : null,
        "simpleType" : "String",
        "variableSetterType" : "String"
    },
    "simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "vpcId",
  "variableType" : "String",
  "documentation" : "<p>The VPC Id for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p>",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlnsNamespaceUri" : null
}, {
  "beanStyleGetterMethodName" : "getSubnetIds",
  "beanStyleSetterMethodName" : "setSubnetIds",
  "c2jName" : "SubnetIds",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p><p>This is a convenience that creates an instance of the [@link List<String>#builder()]. When the [@link Consumer] completes, [@link List<String>#builder()] is called immediately and its result is passed to [@link #subnetIds(List<String>)].
  @param subnetIds a consumer that will call methods on [@link List<String>.Builder] a reference to this object so that method calls can be chained together.
  @return Returns a reference to this object so that method calls can be chained together.
  </p>
  "deprecated" : false,
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "subnetIds",
  "fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p><p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
  </p>
  "fluentSetterMethodName" : "subnetIds",
  "getterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
  "getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "SubnetIds",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "SubnetIds",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "String",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this
object. This is a convenience that creates an instance of the \[@link String.Builder\] avoiding the need to create
one manually via \[@link String.Builder\]. When the \[@link Consumer\] completes, \[@link
String.Builder\] is called immediately and its result is passed to \[@link #member(String)\].
@param member a consumer that will call methods on \[@link String.Builder\] \n@return Returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
  "deprecated": false,
  "documentation": "",
  "enumType": null,
  "eventHeader": false,
  "eventPayload": false,
  "fluentEnumGetterMethodName": null,
  "fluentEnumSetterMethodName": null,
  "fluentGetterMethodName": "member",
  "fluentSetterDocumentation": "Sets the value of the Member property for this object. The new value for the Member property for this object.\n@return Returns a reference to this object so that method calls can be chained together."
  "fluentSetterMethodName": "member",
  "getterDocumentation": "Returns the value of the Member property for this object.\n@return The value of the Member property for this object."
  "getterModel": {
    "returnType": "String",
    "documentation": null
  },
  "http": {
    "additionalMarshallingPath": null,
"additionalUnmarshallingPath": null,
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "member",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "member",
"uri": false,
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String"
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.",
"setterMethodName" : "setSubnetIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
{
  "beanStyleGetterMethodName" : "getAvailabilityZones",
  "beanStyleSetterMethodName" : "setAvailabilityZones",
  "c2jName" : "AvailabilityZones",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.</p><p>This is a convenience that creates an instance of the {<link List<String>.Builder> avoiding the need to create one manually via {<link List<String>#builder()}.

When the {<link Consumer> completes, {<link List<String>.Builder#build()} is called immediately and its result is passed to {<link #availabilityZones(List<String>)}.@param availabilityZones a consumer that will call methods on {<link #availabilityZones(List<String>)}.@return Returns a reference to this object so that method calls can be chained together.@see #availabilityZones(List<String>)",
  "deprecated" : false,
  "documentation" : "<p>The availability zones for the Elasticsearch domain. Exists only if the domain was
created with VPCOptions.

"enumType": null,
"eventHeader": false,
"eventPayload": false,
"fluentEnumGetterMethodName": null,
"fluentEnumSetterMethodName": null,
"fluentGetterMethodName": "availabilityZones",
"fluentSetterDocumentation": "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

@param availabilityZones The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

@return Returns a reference to this object so that method calls can be chained together."

"fluentSetterMethodName": "availabilityZones",
"getterDocumentation": "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions."

"getterModel": {
  "returnType": "java.util.List<String>",
  "documentation": null
},
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "AvailabilityZones",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "AvailabilityZones",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "String",
    "getterDocumentation": "Get the availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.

@return The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions."

"getterModel": {
  "returnType": "java.util.List<String>",
  "documentation": null
},

"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "AvailabilityZones",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "AvailabilityZones",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@see #member(String)

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@see #member(String)

@return Returns a reference to this object so that method calls can be chained together.

"getterDocumentation" : "Returns the value of the Member property for this object.

@see #member(String)

@return The value of the Member property for this object.

"member" : null,

"documentation" : "

This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

@see #member(String)

@return Returns a reference to this object so that method calls can be chained together.

"http" : {

"additionalMarshallingPath" : null,

"additionalUnmarshallingPath" : null,

"flattened" : false,

"greedy" : false,

"header" : false,

"isPayload" : false,

"isStreaming" : false,

"location" : null,

"marshallLocation" : "PAYLOAD",

"marshallLocationName" : "member",

"queryString" : false,

"statusCode" : false,

"unmarshallLocationName" : "member",

"uri" : false
}

"idempotencyToken" : false,

"isBinary" : false,

"jsonValue" : false,

"list" : false,

"listModel" : null,

"map" : false,

"mapModel" : null,

"marshallingType" : "STRING"
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : null,
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "String",
  "variableName" : "member",
  "variableType" : "String",
  "documentation" : "",
  "simpleType" : "String",
  "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null,
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>
},
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "AvailabilityZones",
"setterDocumentation" : "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.\n@param availabilityZones The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions."
"setterMethodName" : "setAvailabilityZones",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "availabilityZones",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
"name" : "AvailabilityZones",
"setterDocumentation" : "The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.",
"setterMethodName" : "setAvailabilityZones",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "availabilityZones",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>"
The availability zones for the Elasticsearch domain. Exists only if the domain was created with VPCOptions.

This is a convenience that creates an instance of the \{@link List<String>.Builder\} avoiding the need to create one manually via \{@link List<String>#builder()\}.\n\nWhen the \{@link Consumer\} completes, \{@link List<String>.Builder#build()\} is called immediately and its result is passed to \{@link #securityGroupIds(List<String>)\} a consumer that will call methods on \{@link List<String>.Builder\} a reference to this object so that method calls can be chained together.\n\n\n@see #securityGroupIds(List<String>)

Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.\n
@return Specifies the security groups for VPC endpoint.

@see #securityGroupIds(List<String>)
"flattened": false,
"greedy": false,
"header": false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "SecurityGroupId",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "SecurityGroupId",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": true,
"listModel": {
  "implType": "java.util.ArrayList",
  "interfaceType": "java.util.List",
  "listMemberModel": {
    "beanStyleGetterMethodName": "getMember",
    "beanStyleSetterMethodName": "setMember",
    "c2jName": "member",
    "c2jShape": "String",
    "defaultConsumerFluentSetterDocumentation": "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [\n@link String.Builder] avoiding the need to create one manually via [\n@link String.Builder].\nWhen the [\n@link Consumer] completes, [\n@link String.Builder.build()] is called immediately and its result is passed to [\n@link #member(String)].\n\n@see #member(String)",
    "deprecated": false,
    "documentation": "",
    "enumType": null,
    "eventHeader": false,
    "eventPayload": false,
    "fluentEnumGetterMethodName": null,
    "fluentEnumSetterMethodName": null,
    "fluentGetterMethodName": "member",
    "fluentSetterDocumentation": "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@see #member(String)",
    "getterDocumentation": "Returns the value of the Member property for this object.\n@return The value of the Member property for this object.\n",
    "getterModel": {
      "returnType": "String",
      "documentation": null
    }
  }
}
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "member",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "member",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object.
",
"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "securityGroupIds",
  "variableType": "java.util.List<String>",
  "documentation": "<p>Specifies the security groups for VPC endpoint.</p>\n@param securityGroupIds Specifies the security groups for VPC endpoint.",
  "setterMethodName": "setSecurityGroupIds",
  "setterModel": {
    "variableDeclarationType": "java.util.List<String>",
    "variableName": "securityGroupIds",
    "variableType": "java.util.List<String>",
    "documentation": null,
    "simpleType": "List<String>",
    "variableSetterType": "java.util.Collection<String>"
  },
  "simple": false,
  "timestampFormat": null,
  "variable": {
    "variableDeclarationType": "java.util.List<String>",
    "variableName": "securityGroupIds",
    "variableType": "java.util.List<String>",
    "documentation": "<p>Specifies the security groups for VPC endpoint.</p>\n@param securityGroupIds Specifies the security groups for VPC endpoint."
  },
  "xmlNameSpaceUri": null
"requestSignerAware": false,
"requestSignerClassFqcn": null,
"required": null,
"shapeName": "VPCDerivedInfo",
"simpleMethod": false,
"unmarshalller": {
  "flattened": false,
  "resultWrapper": null
"variable": {
катеrence
"variableDeclarationType" : "VPCDerivedInfo",
"variableName" : "vpcDerivedInfo",
"variableType" : "VPCDerivedInfo",
"documentation" : null,
"simpleType" : "VPCDerivedInfo",
"variableSetterType" : "VPCDerivedInfo"
},
"wrapper" : false
},
"VPCDerivedInfoStatus" : {
"c2jName" : "VPCDerivedInfoStatus",
"customization" : {
 "artificialResultWrapper" : null,
 "skipGeneratingMarshaller" : false,
 "skipGeneratingModelClass" : false,
 "skipGeneratingUnmarshaller" : false,
 "staxTargetDepthOffset" : 0
},
"deprecated" : false,
"documentation" : "<p>Status of the VPC options for the specified Elasticsearch domain.</p>",
"enums" : null,
"errorCode" : null,
"event" : false,
"eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : null,
"marshaller" : null,
"members" : [ {
 "beanStyleGetterMethodName" : "getOptions",
 "beanStyleSetterMethodName" : "setOptions",
 "c2jName" : "Options",
 "c2jShape" : "VPCDerivedInfo",
 "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the VPC options for the specified Elasticsearch domain.</p>
This is a convenience that creates an instance of the { @link VPCDerivedInfo.Builder} avoiding the need to create one manually via { @link VPCDerivedInfo#builder()}. When the { @link Consumer} completes, { @link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to { @link #options(VPCDerivedInfo)}.
@param options a consumer that will call methods on { @link VPCDerivedInfo.Builder}
@returns Returns a reference to this object so that method calls can be chained together.
@see #options(VPCDerivedInfo)",
 "deprecated" : false,
 "documentation" : "<p>Specifies the VPC options for the specified Elasticsearch domain.</p>",
 "enumType" : null,
 "eventHeader" : false,
 "eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p>Specifies the VPC options for the specified Elasticsearch domain.</p>
@param options Specifies the VPC options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.",
"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p>Specifies the VPC options for the specified Elasticsearch domain.</p>
@return Specifies the VPC options for the specified Elasticsearch domain."

getterModel" : {
  "returnType" : "VPCDerivedInfo",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Options",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Options",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p>Specifies the VPC options for the specified Elasticsearch domain.</p>
@param options Specifies the VPC options for the specified Elasticsearch domain.
»,
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "options",
  "variableType" : "VPCDerivedInfo",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "options",
  "variableType" : "VPCDerivedInfo",
  "documentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.
</p>",
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getStatus",
"beanStyleSetterMethodName" : "setStatus",
"c2jName" : "Status",
"c2jShape" : "OptionStatus",
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.
</p>
This is a convenience that creates an instance of the {
@link OptionStatus.Builder
} avoiding the need to create one manually via {
@link OptionStatus.Builder#builder()
}. When the {
@link Consumer
} completes, {
@link OptionStatus.Builder#build()
} is called immediately and its result is passed to {
@link OptionStatus
}.{
@link
} param status a consumer that will call methods on {
@link OptionStatus.Builder
} {
@link
} return Returns a reference to this object so that method calls can be chained together.
{
@see
} status(OptionStatus)
",
"deprecated" : false,
"documentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.
</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.
</p>
Specifies the status of the VPC options for the specified Elasticsearch domain.
{
@return
} status(OptionStatus) specifies the status of the VPC options for the specified Elasticsearch domain.
{
@return
} status(OptionStatus) specifies the status of the VPC options for the specified Elasticsearch domain.
{
@return
} status(OptionStatus) specifies the status of the VPC options for the specified Elasticsearch domain.
{
@return
} status(OptionStatus) specifies the status of the VPC options for the specified Elasticsearch domain.
",
"getterMethod" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
"isPayload": false,
"isStreaming": false,
"location": null,
"marshallLocation": "PAYLOAD",
"marshallLocationName": "Status",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Status",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Status",
"setterDocumentation": "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the VPC options for the specified Elasticsearch domain.",
"setterMethodName": "setStatus",
"setterModel": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": null,
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "OptionStatus",
  "variableName": "status",
  "variableType": "OptionStatus",
  "documentation": "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.</p>",
  "simpleType": "OptionStatus",
  "variableSetterType": "OptionStatus"
},
"xmlNameSpaceUri": null
},
"membersAsMap": {
  "Options": {
    "beanStyleGetterMethodName": "getOptions",
    "beanStyleSetterMethodName": "setOptions",
    "c2jName": "Options",
    "c2jShape": "VPCDerivedInfo",
    "variableDeclarationType": "Options",
    "variableName": "options",
    "variableType": "Options",
    "documentation": "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.</p>",
    "simpleType": "Options",
    "variableSetterType": "Options"
  }
}
"defaultConsumerFluentSetterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain. This is a convenience that creates an instance of the {@link VPCDerivedInfo.Builder} avoiding the need to create one manually via {@link VPCDerivedInfo#builder()}. When the {@link Consumer} completes, ({@link VPCDerivedInfo.Builder#build()}) is called immediately and its result is passed to ({@link VPCDerivedInfo#options(VPCDerivedInfo)})

@return Returns a reference to this object so that method calls can be chained together.

@see #options(VPCDerivedInfo)",

deprecated" : false,
"documentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "options",
"fluentSetterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain. </p>
@param options Specifies the VPC options for the specified Elasticsearch domain.
@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "options",
"getterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain. </p>
@return Specifies the VPC options for the specified Elasticsearch domain.

getterModel" : {
"returnType" : "VPCDerivedInfo",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Options",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Options",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Options",
"setterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain. </p>\n@p param options Specifies the VPC options for the specified Elasticsearch domain.",
"setterMethodName" : "setOptions",
"setterModel" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "options",
  "variableType" : "VPCDerivedInfo",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfo",
  "variableName" : "options",
  "variableType" : "VPCDerivedInfo",
  "documentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain. </p>
\n@p param options Specifies the VPC options for the specified Elasticsearch domain.",
  "simpleType" : "VPCDerivedInfo",
  "variableSetterType" : "VPCDerivedInfo"
},
"xmlNameSpaceUri" : null
},
"Status" : {
  "beanStyleGetterMethodName" : "getStatus",
  "beanStyleSetterMethodName" : "setStatus",
  "c2jName" : "Status",
  "c2jShape" : "OptionStatus",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain. </p>\nThis is a convenience that creates an instance of the { @link OptionStatus.Builder} avoiding the need to create one manually via { @link OptionStatus#builder()}.\n\nWhen the { @link Consumer} completes, { @link OptionStatus.Builder#build()} is called immediately and its result is passed to { @link OptionStatus.Builder#build()}\n\n@see #status(OptionStatus)",
  "deprecated" : false,
  "documentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain. </p>
\n"enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "status",
  "fluentSetterDocumentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain. </p>
\n@param status Specifies the status of the VPC options for the specified Elasticsearch domain.\n\n@return Returns a reference to this object so that method calls can be chained together.\n\n@see #status(OptionStatus)"}
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>
@return Specifies the status of the VPC options for the specified Elasticsearch domain.",
"getterModel" : {
"returnType" : "OptionStatus",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "Status",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "Status",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>
@param status Specifies the status of the VPC options for the specified Elasticsearch domain.",
"setterMethodName" : "setStatus",
"setterModel" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : null,
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "OptionStatus",
"variableName" : "status"}
"variableType" : "OptionStatus",
"documentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.</p>",
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
],
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ { 
  "beanStyleGetterMethodName" : "getOptions",
  "beanStyleSetterMethodName" : "setOptions",
  "c2jName" : "Options",
  "c2jShape" : "VPCDerivedInfo",
  "defaultConsumerFluentSetterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>
  This is a convenience that creates an instance of the { @link VPCDerivedInfo.Builder} avoiding the need to create one manually via { @link VPCDerivedInfo#builder()}.\n\n  When the { @link Consumer} completes, { @link VPCDerivedInfo.Builder#build()} is called immediately and its result is passed to { @link #options(VPCDerivedInfo)}.\n@param options a consumer that will call methods on { @link VPCDerivedInfo.Builder}\n@return Returns a reference to this object so that method calls can be chained together.\n@see #options(VPCDerivedInfo)",
  "deprecated" : false,
  "documentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "options",
  "fluentSetterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>
  \n  @param options Specifies the VPC options for the specified Elasticsearch domain.\n@return Returns a reference to this object so that method calls can be chained together.",
  "fluentSetterMethodName" : "options",
  "getterDocumentation" : "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>
  \n  @return Specifies the VPC options for the specified Elasticsearch domain."
  "getterModel" : {
    "returnType" : "VPCDerivedInfo",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
}
"marshallLocationName": "Options",
"queryString": false,
"statusCode": false,
"unmarshallLocationName": "Options",
"uri": false
},
"idempotencyToken": false,
"isBinary": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "SDK_POJO",
"name": "Options",
"setterDocumentation": "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>
@param options Specifies the VPC options for the specified Elasticsearch domain.",
"setterMethodName": "setOptions",
"setterModel": {
  "variableDeclarationType": "VPCDerivedInfo",
  "variableName": "options",
  "variableType": "VPCDerivedInfo",
  "documentation": null,
  "simpleType": "VPCDerivedInfo",
  "variableSetterType": "VPCDerivedInfo"
},
"simple": false,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "VPCDerivedInfo",
  "variableName": "options",
  "variableType": "VPCDerivedInfo",
  "documentation": "<p> Specifies the VPC options for the specified Elasticsearch domain.</p>",
  "simpleType": "VPCDerivedInfo",
  "variableSetterType": "VPCDerivedInfo"
},
"xmlNameSpaceUri": null,
},
"beanStyleGetterMethodName": "getStatus",
"beanStyleSetterMethodName": "setStatus",
"c2jName": "Status",
"c2jShape": "OptionStatus",
"defaultConsumerFluentSetterDocumentation": "<p> Specifies the status of the VPC options for the specified Elasticsearch domain.</p>\nThis is a convenience that creates an instance of the {@link OptionStatus.Builder} avoiding the need to create one manually via {@link OptionStatus#builder()}.\n\nWhen the {@link Consumer} completes, {@link OptionStatus.Builder#build()} is called immediately and its result is passed to {@link #status(OptionStatus)}.\n@param status a consumer that will call methods on {@link OptionStatus.Builder}\n@return Returns a reference to this object so that method calls can be chained
together.

```json
"deprecated" : false,
"documentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain. </p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "status",
"fluentSetterDocumentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain. </p>@param status Specifies the status of the VPC options for the specified Elasticsearch domain. 
@return Returns a reference to this object so that method calls can be chained together. ",
"fluentSetterMethodName" : "status",
"getterDocumentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain. </p>
@return Specifies the status of the VPC options for the specified Elasticsearch domain. ",
"getterModel" : {
  "returnType" : "OptionStatus",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "Status",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "Status",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "SDK_POJO",
"name" : "Status",
"setterDocumentation" : "<p> Specifies the status of the VPC options for the specified Elasticsearch domain. </p>@param status Specifies the status of the VPC options for the specified Elasticsearch domain. 
@return Specifies the status of the VPC options for the specified Elasticsearch domain. ",
"setterMethodName" : "setStatus",
"setterModel" : {
```
```
"variableDeclarationType" : "OptionStatus",
"variableName" : "status",
"variableType" : "OptionStatus",
"documentation" : null,
"simpleType" : "OptionStatus",
"variableSetterType" : "OptionStatus"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "OptionStatus",
  "variableName" : "status",
  "variableType" : "OptionStatus",
  "documentation" : "<p>Specifies the status of the VPC options for the specified Elasticsearch domain.</p>",
  "simpleType" : "OptionStatus",
  "variableSetterType" : "OptionStatus"
},
"xmlNameSpaceUri" : null
}]
,"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : [ "Options", "Status" ],
"shapeName" : "VPCDerivedInfoStatus",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "VPCDerivedInfoStatus",
  "variableName" : "vpcDerivedInfoStatus",
  "variableType" : "VPCDerivedInfoStatus",
  "documentation" : null,
  "simpleType" : "VPCDerivedInfoStatus",
  "variableSetterType" : "VPCDerivedInfoStatus"
},
"wrapper" : false
},
"VPCOptions" : {
  "c2jName" : "VPCOptions",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthUnmarshaller" : 0
  },
  "deprecated" : false,
}
Options to specify the subnets and security groups for VPC endpoint. For more information, see [VPC Endpoints for Amazon Elasticsearch Service Domains](http://docs.aws.amazon.com/elasticsearch-service/latest/developerguide/es-vpc.html)
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SubnetIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SubnetIds",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String.Builder]. When the [@link Consumer] completes, [@link String.Builder#build] is called immediately and its result is passed to [@link String#builder].

@see #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object. The new value for the Member property for this object. @return Returns a reference to this object so that method calls can be chained together.

@see #member(String)",
    "fluentSetterMethodName" : "member",
    "getterDocumentation" : "Returns the value of the Member property for this object. @return The value of the Member property for this object.",
    "getterModel" : {
      "returnType" : "String",
      "documentation" : null
    }
  }
}
"http" : {
   "additionalMarshallingPath" : null,
   "additionalUnmarshallingPath" : null,
   "flattened" : false,
   "greedy" : false,
   "header" : false,
   "isPayload" : false,
   "isStreaming" : false,
   "location" : null,
   "marshallLocation" : "PAYLOAD",
   "marshallLocationName" : "member",
   "queryString" : false,
   "statusCode" : false,
   "unmarshallLocationName" : "member",
   "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING",
"name" : "Member",
"setterDocumentation" : "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object. ",
"setterMethodName" : "setMember",
"setterModel" : {
   "variableDeclarationType" : "String",
   "variableName" : "member",
   "variableType" : "String",
   "documentation" : null,
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
   "variableDeclarationType" : "String",
   "variableName" : "member",
   "variableType" : "String",
   "documentation" : "",
   "simpleType" : "String",
   "variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.",
"setterMethodName" : "setSubnetIds",
"setterModel" : {

  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"

},
"simple" : false,
"timestampFormat" : null,
"variable" : {

  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"

},
"xmlNameSpaceUri" : null
},

"beanStyleGetterMethodName" : "getSecurityGroupIds",
"beanStyleSetterMethodName" : "setSecurityGroupIds",
"c2jName" : "SecurityGroupIds",
"c2jShape" : "StringList",
"defaultValueConsumerFluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>

  This is a convenience that creates an instance of the [@link List<String>.Builder] avoiding the need to create one manually via [@link List<String>#builder()].

  When the [@link Consumer] completes, [@link List<String>#build()] is called immediately and its result is passed to [@link #securityGroupIds(List<String>)].

  @param securityGroupIds a consumer that will call methods on [@link List<String>.Builder]

  @return Returns a reference to this object so that method calls can be chained
together.

@see #securityGroupIds(List<String>)",
"deprecated" : false,
"documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "securityGroupIds",
"fluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.
",
"fluentSetterMethodName" : "securityGroupIds",
"getterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
<p>Atempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return Specifies the security groups for VPC endpoint.
",
"getterModel" : {
"returnType" : "java.util.List<String>",
"documentation" : null
},
"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SecurityGroupIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SecurityGroupIds",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",
"c2jShape" : "String"}
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()]. When the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].

When the [@link String.Builder] completes, it calls methods on [@link String.Builder].

@returns Returns a reference to this object so that method calls can be chained together.

@see #member(String)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@returns Returns a reference to this object so that method calls can be chained together.

@see #member(String)

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object.

@returns The value of the Member property for this object."

"getterModel" : {
"returnType" : "String",
"documentation" : null
},

"http" : {
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "member",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "member",
"uri" : false
},

"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "STRING"
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."
,"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
},
"memberLocationName": null,
"memberType": "String",
"map": false,
"memberAdditionalMarshallingPath": null,
"memberAdditionalUnmarshallingPath": null,
"simple": true,
"simpleType": "String",
"templateImplType": "java.util.ArrayList<String>",
"templateType": "java.util.List<String>"
},
"map": false,
"mapModel": null,
"marshallingType": "LIST",
"name": "SecurityGroupIds",
"setterDocumentation": "<p>Specifies the security groups for VPC endpoint.</p>\n@param securityGroupIds Specifies the security groups for VPC endpoint.
","setterMethodName": "setSecurityGroupIds",
"setterModel": {
  "variableDeclarationType": "java.util.List<String>",
  "variableName": "securityGroupIds",
  "variableType": "java.util.List<String>",
  "documentation": null,
  "simpleType": "List<String>",
  "variableSetterType": "java.util.Collection<String>"
"simple" : false,
"timestampFormat" : null,
"variable" : {
    "variableDeclarationType" : "java.util.List<String>",
    "variableName" : "securityGroupIds",
    "variableType" : "java.util.List<String>",
    "documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
    "simpleType" : "List<String>",
    "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},
"membersAsMap" : {
    "SecurityGroupIds" : {
        "beanStyleGetterMethodName" : "getSecurityGroupIds",
        "beanStyleSetterMethodName" : "setSecurityGroupIds",
        "c2jName" : "SecurityGroupIds",
        "c2jShape" : "StringList",
        "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
This is a convenience that creates an instance of the @link List<String>.Builder avoiding the need to create one manually via @link List<String>#build().
When the @link Consumer completes, @link List<String>.Builder#build() is called immediately and its result is passed to @link #securityGroupIds(List<String>)
@param securityGroupIds a consumer that will call methods on @link List<String>.Builder
@return Returns a reference to this object so that method calls can be chained together.
@see #securityGroupIds(List<String>)",
        "deprecated" : false,
        "documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
        "enumType" : null,
        "eventHeader" : false,
        "eventPayload" : false,
        "fluentEnumGetterMethodName" : null,
        "fluentEnumSetterMethodName" : null,
        "fluentGetterMethodName" : "securityGroupIds",
        "fluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.
"fluentSetterMethodName" : "securityGroupIds",
        "getterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
@return Specifies the security groups for VPC endpoint.
"getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
},
"http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SecurityGroupIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SecurityGroupIds",
"uri" : false,
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the {@link String.Builder} avoiding the need to create one manually via {@link String.Builder#builder()}.\nWhen the {@link Consumer} completes, {@link String.Builder#build()} is called immediately and its result is passed to {@link #member(String)}.\n\n@see #member(String)"
  }
}
"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.\n\n@see #member(String)"
"getterModel" : {
  "returnType" : "String",
  "documentation" : null
}
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "member",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "member",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object."

"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
},
"xmlNameSpaceUri": null
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>"}

"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SecurityGroupIds",
"setterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds
Specifies the security groups for VPC endpoint.",

"setterMethodName" : "setSecurityGroupIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the security groups for VPC endpoint.</p>
  @param securityGroupIds
  Specifies the security groups for VPC endpoint.",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},

"SubnetIds" : {
  "beanStyleGetterMethodName" : "getSubnetIds",
  "beanStyleSetterMethodName" : "setSubnetIds",
  "c2jName" : "SubnetIds",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
  @param subnetIds
  This is a convenience that creates an instance of the \{ @link List<String>\}.Builder avoiding the need to create one manually via \{ @link List<String>\}.builder()\n\n  When the \{ @link Consumer\} completes, \{ @link List<String>\}.build() is called immediately and its result is passed to \{ @link
  #subnetIds(List<String>)\}\n  @param subnetIds a consumer that will call methods on \{ @link
List<String>.Builder

@return Returns a reference to this object so that method calls can be chained together.

@see #subnetIds(List<String>)

"deprecated" : false,
"documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "subnetIds",
"fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds
Specifies the subnets for VPC endpoint.

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "subnetIds",
"getterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.</p>
@return Specifies the subnets for VPC endpoint.

"getterModel" : {  
"returnType" : "java.util.List<String>",
"documentation" : null  
},
"http" : {  
"additionalMarshallingPath" : null,
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SubnetIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SubnetIds",
"uri" : false  
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {  
"implType" : "java.util.ArrayList",
"interfaceType" : "java.util.List",
"listMemberModel" : {  
"beanStyleGetterMethodName" : "getMember",
"beanStyleSetterMethodName" : "setMember",
"c2jName" : "member",  
}  
}  
}
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object. This is a convenience that creates an instance of the {[ @link String.Builder ]} avoiding the need to create one manually via { @link String#builder() }. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #member(String) }. 

@see #member(String)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object. When the { @link Consumer } completes, { @link String.Builder#build() } is called immediately and its result is passed to { @link #member(String) }. 

@see #member(String)

@return Returns a reference to this object so that method calls can be chained together.

"fluentSetterMethodName" : "member",
"getterDocumentation" : "Returns the value of the Member property for this object. 

@return The value of the Member property for this object.

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},

"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCode" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"setterDocumentation" : "Sets the value of the Member property for this object.

@param member The new value for the Member property for this object.",
"setterMethodName" : "setMember",
"setterModel" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"simple" : true,
"timestampFormat" : null,
"variable" : {
"variableDeclarationType" : "String",
"variableName" : "member",
"variableType" : "String",
"documentation" : null,
"simpleType" : "String",
"variableSetterType" : "String"
},
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>
",
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>

@ param subnetIds Specifies the subnets for VPC endpoint.",
"setterMethodName" : "setSubnetIds",
"setterModel" : {
"variableDeclarationType" : "java.util.List<String>",
"variableName" : "subnetIds",
"variableType" : "java.util.List<String>",
"documentation" : null,
"simpleType" : "List<String>",
"map" : false,
"variableSetterType" : "java.util.Collection<String>"
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>"
},
"xmlNameSpaceUri" : null
},

"nonStreamingMembers" : [ {
  "beanStyleGetterMethodName" : "getSubnetIds",
  "beanStyleSetterMethodName" : "setSubnetIds",
  "c2jName" : "SubnetIds",
  "c2jShape" : "StringList",
  "defaultConsumerFluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
This is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}. When the {@link Consumer} completes, the constructor of List<String>.Builder#build() is called immediately and its result is passed to the consumer that will call methods on List<String>.Builder when the consumer completes.

@see #subnetIds(List<String>)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "subnetIds",
  "fluentSetterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained together.
@see #subnetIds(List<String>)",
  "getterDocumentation" : "<p>Attempts to modify the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return Specifies the subnets for VPC endpoint.
@see #subnetIds(List<String>)",
  "getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
  }
},
  "http" : {
    "additionalMarshallingPath" : null,
    "queryParameters" : null
  }
}
"additionalUnmarshallingPath" : null,
"flattened" : false,
"greedy" : false,
"header" : false,
"isPayload" : false,
"isStreaming" : false,
"location" : null,
"marshallLocation" : "PAYLOAD",
"marshallLocationName" : "SubnetIds",
"queryString" : false,
"statusCode" : false,
"unmarshallLocationName" : "SubnetIds",
"uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : true,
"listModel" : {
  "implType" : "java.util.ArrayList",
  "interfaceType" : "java.util.List",
  "listMemberModel" : {
    "beanStyleGetterMethodName" : "getMember",
    "beanStyleSetterMethodName" : "setMember",
    "c2jName" : "member",
    "c2jShape" : "String",
    "defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThis is a convenience that creates an instance of the [@link String.Builder] avoiding the need to create one manually via [@link String#builder()].\nWhen the [@link Consumer] completes, [@link String.Builder#build()] is called immediately and its result is passed to [@link #member(String)].\n@see #member(String)\n@returns a reference to this object so that method calls can be chained together.\n@see #member(String)",
    "deprecated" : false,
    "documentation" : "",
    "enumType" : null,
    "eventHeader" : false,
    "eventPayload" : false,
    "fluentEnumGetterMethodName" : null,
    "fluentEnumSetterMethodName" : null,
    "fluentGetterMethodName" : "member",
    "fluentSetterMethodName" : "member",
    "fluentSetterDocumentation" : "Sets the value of the Member property for this object.\nThe new value for the Member property for this object.\n@returns a reference to this object so that method calls can be chained together.\n@see #member(String)\n@returns The value of the Member property for this object.\n",
    "getterDocumentation" : "Returns the value of the Member property for this object.\n@returns The value of the Member property for this object.\n",n    "getterModel" : {
      "returnType" : "String",
"documentation": null,
"http": {
  "additionalMarshallingPath": null,
  "additionalUnmarshallingPath": null,
  "flattened": false,
  "greedy": false,
  "header": false,
  "isPayload": false,
  "isStreaming": false,
  "location": null,
  "marshallLocation": "PAYLOAD",
  "marshallLocationName": "member",
  "queryString": false,
  "statusCode": false,
  "unmarshallLocationName": "member",
  "uri": false
},
"idempotencyToken": false,
"isBinary": false,
"jsonValue": false,
"list": false,
"listModel": null,
"map": false,
"mapModel": null,
"marshallingType": "STRING",
"name": "Member",
"setterDocumentation": "Sets the value of the Member property for this object.\n\n@param member The new value for the Member property for this object."

"setterMethodName": "setMember",
"setterModel": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": null,
  "simpleType": "String",
  "variableSetterType": "String"
},
"simple": true,
"timestampFormat": null,
"variable": {
  "variableDeclarationType": "String",
  "variableName": "member",
  "variableType": "String",
  "documentation": "",
  "simpleType": "String",
  "variableSetterType": "String"
}.
"xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SubnetIds",
"setterDocumentation" : "<p>Specifies the subnets for VPC endpoint.</p>
@param subnetIds Specifies the subnets for VPC endpoint.",
"setterMethodName" : "setSubnetIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "subnetIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the subnets for VPC endpoint.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
},
"xmlNameSpaceUri" : null
},
"beanStyleGetterMethodName" : "getSecurityGroupIds",
"beanStyleSetterMethodName" : "setSecurityGroupIds",
"c2jName" : "SecurityGroupIds",
"c2jShape" : "StringList",
"defaultConsumerFluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
\nThis is a convenience that creates an instance of the {@link List<String>.Builder} avoiding the need to create one manually via {@link List<String>#builder()}.\n\nWhen the {@link Consumer} completes, {@link List<String>.Builder#build()} is called immediately and its result is passed to {link SecurityGroupIds(List<String>)).\n\n@link

List<String>.Builder@return Returns a reference to this object so that method calls can be chained
together.@see #securityGroupIds(List<String>)",
  "deprecated" : false,
  "documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
  "enumType" : null,
  "eventHeader" : false,
  "eventPayload" : false,
  "fluentEnumGetterMethodName" : null,
  "fluentEnumSetterMethodName" : null,
  "fluentGetterMethodName" : "securityGroupIds",
  "fluentSetterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param
securityGroupIds Specifies the security groups for VPC endpoint.
@return Returns a reference to this object so that method calls can be chained
together.",
  "fluentSetterMethodName" : "securityGroupIds",
  "getterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
<p>
Attempts to modify
the collection returned by this method will result in an UnsupportedOperationException.
</p>
@return Specifies
the security groups for VPC endpoint.",
  "getterModel" : {
    "returnType" : "java.util.List<String>",
    "documentation" : null
  },
  "http" : {
    "additionalMarshallingPath" : null,
    "additionalUnmarshallingPath" : null,
    "flattened" : false,
    "greedy" : false,
    "header" : false,
    "isPayload" : false,
    "isStreaming" : false,
    "location" : null,
    "marshallLocation" : "PAYLOAD",
    "marshallLocationName" : "SecurityGroupIds",
    "queryString" : false,
    "statusCode" : false,
    "unmarshallLocationName" : "SecurityGroupIds",
    "uri" : false
  },
  "idempotencyToken" : false,
  "isBinary" : false,
  "jsonValue" : false,
  "list" : true,
  "listModel" : {
    "implType" : "java.util.ArrayList",
    "interfaceType" : "java.util.List",
    "listMemberModel" : {
      "beanStyleGetterMethodName" : "getMember",
      "beanStyleSetterMethodName" : "setMember",
      "c2jName" : "member",
      "getterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
    },
  }
}
"c2jShape" : "String",
"defaultConsumerFluentSetterDocumentation" : "Sets the value of the Member property for this object.

This is a convenience that creates an instance of the [@link String.Builder](https://docs.oracle.com/java/java How to use String.Builder) avoiding the need to create one manually via [@link String#builder()](https://docs.oracle.com/java/java How to use String). When the [@link Consumer](https://docs.oracle.com/java/java How to use Consumer) completes, [@link String.Builder#build()](https://docs.oracle.com/java/java How to use String.Builder#build) is called immediately and its result is passed to [@link #member(String)](https://docs.oracle.com/java/java How to use #member(String)).

The new value for the Member property for this object.

@returns A reference to this object so that method calls can be chained together.

@see #member(String)

"deprecated" : false,
"documentation" : "",
"enumType" : null,
"eventHeader" : false,
"eventPayload" : false,
"fluentEnumGetterMethodName" : null,
"fluentEnumSetterMethodName" : null,
"fluentGetterMethodName" : "member",
"fluentSetterDocumentation" : "Sets the value of the Member property for this object.

@returns The new value for the Member property for this object.

@return Returns a reference to this object so that method calls can be chained together.

@see #member(String)"

"getterDocumentation" : "Returns the value of the Member property for this object.

@return The value of the Member property for this object.

@returns A reference to this object so that method calls can be chained together.

@see #member(String)"

"getterModel" : {
  "returnType" : "String",
  "documentation" : null
},
"http" : {
  "additionalMarshallingPath" : null,
  "additionalUnmarshallingPath" : null,
  "flattened" : false,
  "greedy" : false,
  "header" : false,
  "isPayload" : false,
  "isStreaming" : false,
  "location" : null,
  "marshallLocation" : "PAYLOAD",
  "marshallLocationName" : "member",
  "queryString" : false,
  "statusCodes" : false,
  "unmarshallLocationName" : "member",
  "uri" : false
},
"idempotencyToken" : false,
"isBinary" : false,
"jsonValue" : false,
"list" : false,
"listModel" : null,
"map" : false,
"mapModel" : null,
"marshallingType" : "LIST",
"name" : "SecurityGroupIds",
"setterDocumentation" : "<p>Specifies the security groups for VPC endpoint.</p>
@param securityGroupIds Specifies the security groups for VPC endpoint."
"setterMethodName" : "setSecurityGroupIds",
"setterModel" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : null,
  "simpleType" : "List<String>",
  "simple" : true,
  "templateImplType" : "java.util.ArrayList<String>",
  "templateType" : "java.util.List<String>",
  "map" : false,
  "mapModel" : null,
  "marshallerType" : "LIST",
  "name" : "SecurityGroupIds",
  "setterDocumentation" : "Sets the value of the Member property for this object.
@param member The new value for the Member property for this object.",
  "setterMethodName" : "setMember",
  "setterModel" : {
    "variableDeclarationType" : "String",
    "variableName" : "member",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "simple" : true,
  "timestampFormat" : null,
  "variable" : {
    "variableDeclarationType" : "String",
    "variableName" : "member",
    "variableType" : "String",
    "documentation" : null,
    "simpleType" : "String",
    "variableSetterType" : "String"
  },
  "xmlNameSpaceUri" : null
},
"memberLocationName" : null,
"memberType" : "String",
"map" : false,
"memberAdditionalMarshallingPath" : null,
"memberAdditionalUnmarshallingPath" : null,
"simple" : true,
"simpleType" : "String",
"templateImplType" : "java.util.ArrayList<String>",
"templateType" : "java.util.List<String>",
"map" : false,
"mapModel" : null,
"variableSetterType" : "java.util.Collection<String>",
},
"simple" : false,
"timestampFormat" : null,
"variable" : {
  "variableDeclarationType" : "java.util.List<String>",
  "variableName" : "securityGroupIds",
  "variableType" : "java.util.List<String>",
  "documentation" : "<p>Specifies the security groups for VPC endpoint.</p>",
  "simpleType" : "List<String>",
  "variableSetterType" : "java.util.Collection<String>",
},
"xmlNameSpaceUri" : null
},
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "VPCOptions",
"simpleMethod" : false,
"unmarshaller" : {
  "flattened" : false,
  "resultWrapper" : null
},
"variable" : {
  "variableDeclarationType" : "VPCOptions",
  "variableName" : "vpcOptions",
  "variableType" : "VPCOptions",
  "documentation" : null,
  "simpleType" : "VPCOptions",
  "variableSetterType" : "VPCOptions"
},
"wrapper" : false
},
"ValidationException" : {
  "c2jName" : "ValidationException",
  "customization" : {
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "documentation" : "<p>An exception for missing / invalid input fields. Gives http status code of 400.</p>",
  "enums" : null,
  "errorCode" : "ValidationException",
  "event" : false,
  "eventStream" : false,
"explicitEventPayloadMember" : null,
"hasHeaderMember" : false,
"hasPayloadMember" : false,
"hasStatusCodeMember" : false,
"hasStreamingMember" : false,
"httpStatusCode" : 400,
"marshaller" : null,
"members" : [ ],
"membersAsMap" : { },
"nonStreamingMembers" : [ ],
"requestSignerAware" : false,
"requestSignerClassFqcn" : null,
"required" : null,
"shapeName" : "ValidationException",
"simpleMethod" : false,
"unmarshaller" : null,
"variable" : { 
  "variableDeclarationType" : "ValidationException",
  "variableName" : "validationException",
  "variableType" : "ValidationException",
  "documentation" : null,
  "simpleType" : "ValidationException",
  "variableSetterType" : "ValidationException"
},
"wrapper" : false
},
"VolumeType" : { 
  "c2jName" : "VolumeType",
  "customization" : { 
    "artificialResultWrapper" : null,
    "skipGeneratingMarshaller" : false,
    "skipGeneratingModelClass" : false,
    "skipGeneratingUnmarshaller" : false,
    "staxTargetDepthOffset" : 0
  },
  "deprecated" : false,
  "enums" : [ 
    { "name" : "STANDARD",
      "value" : "standard"
    },
    { "name" : "GP2",
      "value" : "gp2"
    },
    { "name" : "IO1",
      "value" : "io1"
null,  
"event" : false,  
"eventStream" : false,  
"explicitEventPayloadMember" : null,  
"hasHeaderMember" : false,  
"hasPayloadMember" : false,  
"hasStatusCodeMember" : false,  
"hasStreamingMember" : false,  
"httpStatusCode" : null,  
"marshaller" : null,  
"marshaller" : null,  
"members" : [ ],  
"membersAsMap" : { },  
"nonStreamingMembers" : [ ],  
"requestSignerAware" : false,  
"requestSignerClassFqcn" : null,  
"required" : null,  
"shapeName" : "VolumeType",  
"simpleMethod" : false,  
"unmarshaller" : {  
"flattened" : false,  
"resultWrapper" : null  
},  
"variable" : {  
"variableDeclarationType" : "VolumeType",  
"variableName" : "volumeType",  
"variableType" : "VolumeType",  
"documentation" : null,  
"simpleType" : "VolumeType",  
"variableSetterType" : "VolumeType"  
},  
"wrapper" : false  
},  
"customAuthorizers" : { },  
"customRetryPolicy" : null,  
"examples" : {  
"examples" : [ ],  
"version" : "1.0"  
},  
"fileHeader" : "/*
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",  

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"sdkModeledExceptionBaseClassName" : "ElasticsearchException",
"sdkModeledExceptionBaseFqcn" : 
"software.amazon.awssdk.services.elasticsearch.model.ElasticsearchException",
"sdkRequestBaseClassName" : "ElasticsearchRequest",
"sdkResponseBaseClassName" : "ElasticsearchResponse"
}  

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1-jar/models/es-2015-01-01-intermediate.json

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* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1-jar/software/amazon/awssdk/services/elasticsearch/model/ListElasticsearchInstanceTypesRequest.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1-jar/software/amazon/awssdk/services/elasticsearch/model/InternalException.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1-jar/software/amazon/awssdk/services/elasticsearch/paginators/ListElasticsearchVersionsIterable.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1-jar/software/amazon/awssdk/services/elasticsearch/model/InstanceCountLimits.java
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* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1-jar/software/amazon/awssdk/services/elasticsearch/model/AddTagsRequest.java
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* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1-jar/software/amazon/awssdk/services/elasticsearch/model/CreateElasticsearchDomainRequest.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1-jar/software/amazon/awssdk/services/elasticsearch/model/CreateElasticsearchDomainRequest.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1.jar/software/amazon/awssdk/services/elasticsearch/AsyncClientBuilder.java
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* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1.jar/software/amazon/awssdk/services/elasticsearch/model/BaseException.java
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* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1.jar/software/amazon/awssdk/services/elasticsearch/model/ListTagsResponse.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1.jar/software/amazon/awssdk/services/elasticsearch/paginators/DescribeReservedElasticsearchInstanceOfferingsIterable.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1.jar/software/amazon/awssdk/services/elasticsearch/model/AddTagsResponse.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1.jar/software/amazon/awssdk/services/elasticsearch/model/PurchaseReservedElasticsearchInstanceOfferingResponse.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1.jar/software/amazon/awssdk/services/elasticsearch/model/SnapshotOptions.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1.jar/software/amazon/awssdk/services/elasticsearch/model/ReservedElasticsearchInstanceOffering.java
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1.jar/software/amazon/awssdk/services/elasticsearch/transform/GetUpgradeHistoryRequestMarshaller.java
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* /
/**
 * <p>
 * Allows you to either upgrade your domain or perform an Upgrade eligibility check to a compatible
Elasticsearch
 * version.
 * </p>
 *
 * @param upgradeElasticsearchDomainRequest
 * Container for request parameters to <code> <a>UpgradeElasticsearchDomain</a> </code> operation.
 * @return Result of the UpgradeElasticsearchDomain operation returned by the service.
 * @throws BaseException
 * An error occurred while processing the request.
 * @throws ResourceNotFoundException
 * An exception for accessing or deleting a resource that does not exist. Gives http status code of 400.
 * @throws ResourceAlreadyExistsException
 * An exception for creating a resource that already exists. Gives http status code of 400.
 * @throws DisabledOperationException
 * An error occurred because the client wanted to access a not supported operation. Gives http status code of
* 409.
 * @throws ValidationException
 * An exception for missing / invalid input fields. Gives http status code of 400.
 * @throws InternalException
 * The request processing has failed because of an unknown error, exception or failure (the failure is
* internal to the service) . Gives http status code of 500.
 * @throws SdkException
 * Base class for all exceptions that can be thrown by the SDK (both service and client). Can be used for
* catch all scenarios.
 * @throws SdkClientException
 * If any client side error occurs such as an IO related failure, failure to get credentials, etc.
 * @throws ElasticsearchException
 * Base class for all service exceptions. Unknown exceptions will be thrown as an instance of this type.
 * @sample ElasticsearchClient.UpgradeElasticsearchDomain
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1069476299_1594672764.44/0/elasticsearch-2-3-3-sources-1-
jar/software/amazon/awssdk/services/elasticsearch/ElasticsearchClient.java
1.869 jackson-module-parameter-names

2.10.5

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1.1870 caffeine 2.6.2

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* /opt/ cola/ permits/ 1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/stats/StatsCounter.java
* /opt/ cola/ permits/ 1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/Cache.java
* /opt/ cola/ permits/ 1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/stats/ConcurrentStatsCounter.java
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jar/com/github/benmanes/caffeine/cache/CacheLoader.java
* /opt/ cola/ permits/ 1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/base/UnsafeAccess.java
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* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/Expiry.java
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jar/com/github/benmanes/caffeine/cache/MpscGrowableArrayQueue.java
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* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/WSWR.java
* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/WISMWRA.java
* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/SSLWR.java
* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/WILSMWAW.java
* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/WSMS.java
* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/SSLMWA.java
* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
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* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/FWAWMW.java
* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/SIMWR.java
* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
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jar/com/github/benmanes/caffeine/cache/FDWRMW.java
* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/AsyncCacheLoader.java
* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/CaffeineSpec.java

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jar/com/github/benmanes/caffeine/cache/SSLMWW.java
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* /opt/cola/permissions/1000542072_1646171481.02/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/WILWR.java
* /opt/cola/permissions/1000542072_1646171481.02/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/WISAW.java
* /opt/cola/permissions/1000542072_1646171481.02/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/SILMW.java
* /opt/cola/permissions/1000542072_1646171481.02/caffeine-2-6-2-sources-
jar/com/github/benmanes/caffeine/cache/FS.java
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jar/com/github/benmanes/caffeine/cache/SISMSWR.java
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* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-jar/com/github/benmanes/caffeine/cache/WILSMWR.java
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* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-jar/com/github/benmanes/caffeine/cache/SSMWAR.java
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* /opt/cola/permits/1000542072_1646171481.02/0/caffeine-2-6-2-sources-jar/com/github/benmanes/caffeine/cache/SerializationProxy.java
1.1871 springfox-swagger-common 2.8.0

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* /opt/cola/permits/1001071298_1646171623.27/0/springfox-swagger-common-2-8-0-sources-jar/springfox/documentation/swagger/readers/operation/SwaggerOperationTagsReader.java

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* /opt/cola/permits/1001071298_1646171623.27/0/springfox-swagger-common-2-8-0-sources-
jar/springfox/documentation/swagger/schema/ApiModelProperties.java

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* /opt/cola/permits/1001071298_1646171623.27/0/springfox-swagger-common-2-8-0-sources-
ar/jar/springfox/documentation/swagger/web/TagsSorter.java
* /opt/cola/permits/1001071298_1646171623.27/0/springfox-swagger-common-2-8-0-sources-
ar/jar/springfox/documentation/swagger/web/UiConfigurationBuilder.java
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* /opt/cola/permits/1001071298_1646171623.27/0/springfox-swagger-common-2-8-0-sources-
ar/jar/springfox/documentation/swagger/schema/ApiModelPropertyPropertyBuilder.java
* /opt/cola/permits/1001071298_1646171623.27/0/springfox-swagger-common-2-8-0-sources-
ar/jar/springfox/documentation/swagger/web/ClassOrApiAnnotationResourceGrouping.java
* /opt/cola/permits/1001071298_1646171623.27/0/springfox-swagger-common-2-8-0-sources-
1.1872 wildfly-elytron-digest 1.11.2.Final

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* /opt/cola/permits/1110677318_1654022994.8605878/0/wildfly-ee-14-0-1-final-sources-1-jar/org/jboss/as/ee/metadata/property/Attachments.java
* /opt/cola/permits/1110677318_1654022994.8605878/0/wildfly-ee-14-0-1-final-sources-1-jar/org/jboss/as/ee/naming/ContextInjectionSource.java
* /opt/cola/permits/1110677318_1654022994.8605878/0/wildfly-ee-14-0-1-final-sources-1-jar/org/jboss/as/ee/subsystem/EESubsystemParser10.java
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org.jboss.as.ee.subsystem.EETransformers

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* /opt/cola/permits/1110677318_1654022994.8605878/0/wildfly-ee-14-0-1-final-sources-1-jar/org/jboss/as/ee/concurrent/IdentityAwareProxyInvocationHandler.java

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* /opt/cola/permits/1110677318_1654022994.8605878/0/wildfly-ee-14-0-1-final-sources-1-jar/org/jboss/as/ee/subsystem/ContextServiceRemove.java
* /opt/cola/permits/1110677318_1654022994.8605878/0/wildfly-ee-14-0-1-final-sources-1-jar/org/jboss/as/ee/subsystem/ContextServiceResourceDefinition.java
* /opt/cola/permits/1110677318_1654022994.8605878/0/wildfly-ee-14-0-1-final-sources-1-jar/org/jboss/as/ee/concurrent/ConcurrentContextInterceptor.java
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* /opt/cola/permits/1000521265_1654022851.7290676/0/hornetq-jms-client-2-3-0-crl-sources-jar/org/hornetq/api/jms/management/JMSQueueControl.java
* /opt/cola/permits/1000521265_1654022851.7290676/0/hornetq-jms-client-2-3-0-crl-sources-jar/org/hornetq/jms/referenceable/SerializableObjectRefAddr.java
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1.1877 jboss-remote-naming 2.0.4.Final

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* /opt/cola/permits/1039325694_1654022887.3462071/0/jboss-remote-naming-2-0-4-final-sources-jar/org/jboss/naming/remote/client/InitialContextFactory.java
* /opt/cola/permits/1039325694_1654022887.3462071/0/jboss-remote-naming-2-0-4-final-sources-jar/org/jboss/naming/remote/client/ClientUtil.java
* /opt/cola/permits/1039325694_1654022887.3462071/0/jboss-remote-naming-2-0-4-final-sources-jar/org/jboss/naming/remote/protocol/v1/Constants.java
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*/

Found in path(s):
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/HttpInvocationHandler.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/InvocationIdentifier.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/HttpSessionOpenHandler.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
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  jar/org/wildfly/httpclient/ejb/HttpClientProvider.java
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  jar/org/wildfly/httpclient/ejb/ModuleIdentifier.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/EJBMarshallingCompatibilityHelper.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/RemoteHTTPHandler.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/EjbHttpClientMessages.java
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* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/HttpProtocolV1ObjectResolver.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/HttpCancelHandler.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/HttpEJBInvocationBuilder.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/HttpEJBReceiver.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/EjbHttpService.java
* /opt/cola/permits/1110677150_1606843366.46/0/wildfly-http-ejb-client-1-0-12-final-sources-1-
  jar/org/wildfly/httpclient/ejb/EjbHeaders.java

1.1884 tar 1.32-1.el7.0atomix1
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/**
* Default implementation of the Attributes interface.
* 
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* </blockquote>
* 
* <p>This class provides a default implementation of the SAX2
* { @link org.xml.sax.Attributes Attributes } interface, with the
* addition of manipulators so that the list can be modified or
* reused.</p>
* 
* <p>There are two typical uses of this class:</p>
* 
* <ol>
* <li>to take a persistent snapshot of an Attributes object
* in a { @link org.xml.sax.ContentHandler#startElement startElement } event; or</li>
* <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
* </ol>
* 
* <p>This class replaces the now-deprecated SAX1 { @link
* org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
* class; in addition to supporting the updated Attributes
* interface rather than the deprecated { @link org.xml.sax.AttributeList
* AttributeList } interface, it also includes a much more efficient
* implementation using a single array rather than a set of Vectors.</p>
* 
* <p><b>
*     Auto-generated, do not edit.
* </b></p>
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
*/

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jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java

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* /opt/cola/permits/1110676130_1606843895.2/0/netty-transport-native-unix-common-4-1-24-final-sources-1-
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  jar/io/netty/channel/unix/DomainSocketChannelConfig.java

1.1891 jline-terminal-jna 3.10.0

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1.1892 rank-eval-client 6.8.5
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1.1893 python-iniparse 0.4-9.el7

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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* /opt/cola/permits/1000969906_1654022905.549617/0/jersey-client-2-12-sources-
  jar/org/glassfish/jersey/client/HttpUrlConnector.java
* /opt/cola/permits/1000969906_1654022905.549617/0/jersey-client-2-12-sources-
  jar/org/glassfish/jersey/client/JerseyClient.java
* /opt/cola/permits/1000969906_1654022905.549617/0/jersey-client-2-12-sources-
  jar/org/glassfish/jersey/client/filter/CsrfProtectionFilter.java

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* /opt/cola/permits/1000969906_1654022905.549617/0/jersey-client-2-12-sources-jar/org/glassfish/jersey/client/authentication/package-info.java
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jar/org/glassfish/jersey/client/RequestEntityProcessing.java

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* /opt/cola/permits/1000969906_1654022905.549617/0/jersey-client-2-12-sources-

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* /opt/cola/permits/1110675828_1606843307.91/0/spring-aop-5-1-6-release-sources-1-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/cola/permits/1110675828_1606843307.91/0/spring-aop-5-1-6-release-sources-1-jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
* /opt/cola/permits/1110675828_1606843307.91/0/spring-aop-5-1-6-release-sources-1-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /opt/cola/permits/1110675828_1606843307.91/0/spring-aop-5-1-6-release-sources-1-jar/org/springframework/aop/ProxyMethodInvocation.java
* /opt/cola/permits/1110675828_1606843307.91/0/spring-aop-5-1-6-release-sources-1-jar/org/springframework/aop/TargetClassAware.java
* /opt/cola/permits/1110675828_1606843307.91/0/spring-aop-5-1-6-release-sources-1-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java

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1.1904 jsch 0.1.53

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1.1905 jackson-xc 1.9.13

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1.1906 wagon-ssh-external 1.0-beta-2

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# Contributions to the urllib3 project

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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
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  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL
* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabadaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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* /opt/cola/permits/1110676490_1654022877.1386755/0/jboss-common-beans-2-0-0-final-sources-1.jar/org/jboss/common/beans/property/URLEditor.java
* /opt/cola/permits/1110676490_1654022877.1386755/0/jboss-common-beans-2-0-0-final-sources-1.jar/org/jboss/common/beans/property/ByteEditor.java
* /opt/cola/permits/1110676490_1654022877.1386755/0/jboss-common-beans-2-0-0-final-sources-1.jar/org/jboss/common/beans/property/DoubleEditor.java
* /opt/cola/permits/1110676490_1654022877.1386755/0/jboss-common-beans-2-0-0-final-sources-1.jar/org/jboss/common/beans/property/FloatEditor.java
* /opt/cola/permits/1110676490_1654022877.1386755/0/jboss-common-beans-2-0-0-final-sources-1.jar/org/jboss/common/beans/property/BigIntegerEditor.java
* /opt/cola/permits/1110676490_1654022877.1386755/0/jboss-common-beans-2-0-0-final-sources-1.jar/org/jboss/common/beans/property/CharacterEditor.java
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* /opt/cola/permits/1110677093_1654023052.730535/0/wildfly-remoting-6-0-2-final-sources-1-
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* /opt/cola/permits/1110677093_1654023052.730535/0/wildfly-remoting-6-0-2-final-sources-1-
  jar/org/jboss/as/remoting/HttpConnectorResource.java

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org.jboss.as.remoting.RemotingExtension

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* /opt/cola/permits/1110677093_1654023052.730535/0/wildfly-remoting-6-0-2-final-sources-1- jar/org/jboss/as/remoting/RemotingHttpUpgradeService.java
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jar/org/jboss/as/remoting/InjectedSocketBindingStreamServerService.java

1.1917 ruamel-yaml 0.15.97
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* /opt/ws_local/PERMITS_SQL/1091709656_1600571795.02/0/wildfly-elytron-base-1-11-2-final-sources.jar/org/wildfly/security/WildFlyElytronHttpBearerProvider.java
* /opt/ws_local/PERMITS_SQL/1091709656_1600571795.02/0/wildfly-elytron-base-1-11-2-final-sources.jar/org/wildfly/security/WildFlyElytronHttpSnegoProvider.java
* /opt/ws_local/PERMITS_SQL/1091709656_1600571795.02/0/wildfly-elytron-base-1-11-2-final-sources.jar/org/wildfly/security/WildFlyElytronHttpFormProvider.java
* /opt/ws_local/PERMITS_SQL/1091709656_1600571795.02/0/wildfly-elytron-base-1-11-2-final-sources.jar/org/wildfly/security/VersionedProvider.java
* /opt/ws_local/PERMITS_SQL/1091709656_1600571795.02/0/wildfly-elytron-base-1-11-2-final-sources.jar/org/wildfly/security/WildFlyElytronHttpBasicProvider.java

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------------------------------------------------------------------------------------
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Zstd-jni: JNI bindings to Zstd Library

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/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: [configuration option]
 **
 ** These constants are the available integer configuration options that
 ** can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued. Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** <dl>
 ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Single-thread. In other words, it disables
 ** all mutexing and puts SQLite into a mode where it can only be used
 ** by a single thread. ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to change the [threading mode] from its default
 ** value of Single-thread and so [sqlite3_config()] will return
 ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
 ** configuration option. </dd>
 **
 ** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** <dd>There are no arguments to this option. ^This option sets the
 ** [threading mode] to Multi-thread. In other words, it disables
 ** mutexing on [database connection] and [prepared statement] objects.
 ** The application is responsible for serializing access to
 ** [database connections] and [prepared statements]. But other mutexes
 ** are enabled so that SQLite will be safe to use in a multi-threaded
 */
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^ This option can be used to overload the default memory allocation
** routines with a wrapper that simulates memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_memory_used()]
**
Memory allocation statistics are enabled by default unless SQLite is compiled with \[\text{SQLITE_DEFAULT_MEMSTATUS}=0\] in which case memory allocation statistics are disabled by default.

The \text{SQLITE_CONFIG_SCRATCH} option specifies a static memory buffer that SQLite can use for scratch memory. There are three arguments to \text{SQLITE_CONFIG_SCRATCH}: A pointer to an 8-byte aligned memory buffer from which the scratch allocations will be drawn, the size of each scratch allocation (sz), and the maximum number of scratch allocations (N).

SQLite will not use more than one scratch buffer per thread. SQLite will never request a scratch buffer that is more than 6 times the database page size.

If SQLite needs additional scratch memory beyond what is provided by this configuration option, then \text{sqlite3_malloc()} will be used to obtain the memory needed.

When the application provides any amount of scratch memory using \text{SQLITE_CONFIG_SCRATCH}, SQLite avoids unnecessary large \text{sqlite3_malloc|heap allocations}.

This can help prevent memory allocation failures due to heap fragmentation in low-memory embedded systems.

The \text{SQLITE_CONFIG_PAGECACHE} option specifies a static memory buffer that SQLite can use for the database page cache with the default page cache implementation.

This configuration should not be used if an application defines a page cache implementation using \text{SQLITE_CONFIG_PCACHE2}.

There are three arguments to \text{SQLITE_CONFIG_PAGECACHE}: A pointer to an 8-byte aligned memory, the size of each page buffer (sz), and the number of pages (N).

The sz argument should be the size of the largest database page (a power of two between 512 and 65536) plus some extra bytes for each page header. The number of extra bytes needed by the page header can be determined using the \text{SQLITE_CONFIG_PCACHE_HDRSZ} option.

It is harmless, apart from the wasted memory, for the sz parameter to be larger than necessary. The first
** argument should pointer to an 8-byte aligned block of memory that
** is at least sz*N bytes of memory, otherwise subsequent behavior is
** undefined.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.</dd>
**
** [[SQLite_CONFIG_HEAP]] <dt>SQLite_CONFIG_HEAP</dt>
** <dd> ^The SQLite_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLite_CONFIG_SCRATCH] and
** [SQLite_CONFIG_PAGECACHE].
** ^The SQLite_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLite_ENABLE_MEMSYS3] or [SQLite_ENABLE_MEMSYS5] and returns
** [SQLite_ERROR] if invoked otherwise.
** ^There are three arguments to SQLite_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLite_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLite's memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLite_CONFIG_MUTEX]] <dt>SQLite_CONFIG_MUTEX</dt>
** <dd> ^(The SQLite_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()]) returns. ^If SQLite is compiled with
** the [SQLite_THREADSAFE | SQLite_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()]] with the SQLite_CONFIG_MUTEX configuration option will
** return [SQLite_ERROR].</dd>
**
** [[SQLite_CONFIG_GETMUTEX]] <dt>SQLite_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLite_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines,)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
profiling or testing, for example. ^If SQLite is compiled with
the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
the entire mutexing subsystem is omitted from the build and hence calls to
[sqlite3_config()| with the SQLITE_CONFIG_GETMUTEX configuration option will
return [SQLITE_ERROR].</dd>

** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd>^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
the default size of lookaside memory on each [database connection].
The first argument is the
size of each lookaside buffer slot and the second is the number of
slots allocated to each database connection.).^  
(SQLITE_CONFIG_LOOKASIDE
sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
option to [sqlite3_db_config()] can be used to change the lookaside
configuration on individual connections.).^  
</dd>

** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd>^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
a pointer to an [sqlite3_pcache_methods2] object. This object specifies
the interface to a custom page cache implementation.).^  
(SQLITE_CONFIG_PCACHE2
makes a copy of the [sqlite3_pcache_methods2] object.)
</dd>

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd>^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
the current page cache implementation into that object.).^  
</dd>

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
global [error log].
(^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
function with a call signature of void(*)(void*,int,const char*),
and a pointer to void. ^If the function pointer is not NULL, it is
invoked by [sqlite3_log()] to process each logging event. ^If the
function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
^{The void pointer that is the second argument to SQLITE_CONFIG_LOG is
passed through as the first parameter to the application-defined logger
function whenever that function is invoked. ^The second parameter to
the logger function is a copy of the first parameter to the corresponding
[sqlite3_log()] call and is intended to be a [result code] or an
[extended result code]. ^The third parameter passed to the logger is
log message after formatting via [sqlite3_snprintf()].
The SQLite logging interface is not reentrant; the logger function
supplied by the application must not invoke any SQLite interface.
In a multi-threaded application, the application-defined logger
function must be threadsafe. </dd>

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
**<dd>**^The SQLITE_CONFIG_URI option takes a single argument of type int. **If non-zero, then URI handling is globally enabled. If the parameter is zero, **then URI handling is globally disabled.)^ ^If URI handling is globally **enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()], **[sqlite3_open16()]) or **specified as part of [ATTACH] commands are interpreted as URIs, regardless **of whether or not the [SQLITE_OPEN_URI] flag is set when the database **connection is opened. ^If it is globally disabled, filenames are **only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the **database connection is opened. ^By default, URI handling is globally **disabled. The default value may be changed by compiling with the **[SQLITE_USE_URI] symbol defined.)^ **

**

**[[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN **<dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer **argument which is interpreted as a boolean in order to enable or disable **the use of covering indices for full table scans in the query optimizer. **^The default setting is determined **by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on" **if that compile-time option is omitted. **The ability to disable the use of covering indices for full table scans **is because some incorrectly coded legacy applications might malfunction **when the optimization is enabled. Providing the ability to **disable the optimization allows the older, buggy application code to work **without change even with newer versions of SQLite. **

**

**[[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]] **<dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE **<dd> These options are obsolete and should not be used by new code. **They are retained for backwards compatibility but are now no-ops. **</dd>

**

**[[SQLITE_CONFIG_SQLLOG]] **<dt>SQLITE_CONFIG_SQLLOG **<dd>This option is only available if sqlite is compiled with the **[SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should **be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int). **The second should be of type (void*). The callback is invoked by the library **in three separate circumstances, identified by the value passed as the **fourth parameter. If the fourth parameter is 0, then the database connection **passed as the second argument has just been opened. The third argument **points to a buffer containing the name of the main database file. If the **fourth parameter is 1, then the SQL statement that the third parameter **points to has just been executed. Or, if the fourth parameter is 2, then **the connection being passed as the second parameter is being closed. The **third parameter is passed NULL In this case. An example of using this **configuration option can be seen in the "test_sqllog.c" source file in **the canonical SQLite source tree.</dd>
** [[SQLITE_CONFIG_MMAP_SIZE]]
** 
** <dt>SQLITE_CONFIG_MMAP_SIZE
** 
** <dd>*SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** 
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** 
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** 
** <dd>*The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. *SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** 
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** 
** <dd>*The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** 
** <dt>SQLITE_CONFIG_PMASZ
** 
** <dd>*The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**</dd>
*/
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**
**************************************************************************
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**
**************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
** * sqlite3 vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3 vfs objects for all locking methods
plus implementations of sqlite3_os_init() and sqlite3_os_end().

Return a pointer to the "temporary page" buffer held internally by the pager. This is a buffer that is big enough to hold the entire content of a database page. This buffer is used internally during rollback and will be overwritten whenever a rollback occurs. But other modules are free to use it too, as long as no rollbacks are happening.

Advance the cursor to the next entry in the database. If successful then set *pRes=0. If the cursor was already pointing to the last entry in the database before this routine was called, then set *pRes=1.

The main entry point is sqlite3BtreeNext(). That routine is optimized for the common case of merely incrementing the cell counter BtCursor.aiIdx to the next cell on the current page. The (slower) btreeNext() helper routine is called when it is necessary to move to a different page or to restore the cursor.

The calling function will set *pRes to 0 or 1. The initial *pRes value will be 1 if the cursor being stepped corresponds to an SQL index and if this routine could have been skipped if that SQL index had been a unique index. Otherwise the caller will have set *pRes to zero. Zero is the common case. The btree implementation is free to use the initial *pRes value as a hint to improve performance, but the current SQLite btree implementation does not. (Note that the comdb2 btree implementation does use this hint, however.)
** is invoked.

```
**
** <dl>
** 
** <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. This option sets the threading mode to Single-thread. In other words, it disables all mutexing and puts SQLite into a mode where it can only be used by a single thread. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to change the threading mode from its default value of Single-thread and so [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD configuration option.</dd>
**
** <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. This option sets the threading mode to Multi-thread. In other words, it disables mutexing on database connection and prepared statement objects. The application is responsible for serializing access to database connections and prepared statements. But other mutexes are enabled so that SQLite will be safe to use in a multi-threaded environment as long as no two threads attempt to use the same database connection at the same time. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Multi-thread threading mode and [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>This option sets the threading mode to Serialized. In other words, this option enables all mutexes including the recursive mutexes on database connection and prepared statement objects. In this mode (which is the default when SQLite is compiled with [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access to database connections and prepared statements so that the application is free to use the same database connection or the same prepared statement in different threads at the same time. If SQLite is compiled with the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Serialized threading mode and [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd>This option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure. The argument specifies
```
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns. </dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^(The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
** <ul>
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^(The SQLITE_CONFIG_SCRATCH option specifies a static memory buffer
** that SQLite can use for scratch memory. ^(There are three arguments
** to SQLITE_CONFIG_SCRATCH: A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N).)^
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will not use more than one scratch buffers per thread.
** ^SQLite will never request a scratch buffer that is more than 6
** times the database page size.
** ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.<p>
** ^When the application provides any amount of scratch memory using
** SQLITE_CONFIG_SCRATCH, SQLite avoids unnecessary large
** [sqlite3_malloc|heap allocations].
** This can help [Robson proof] prevent memory allocation failures due to heap
fragmentation in low-memory embedded systems.

** </dd>

** ** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd>^The SQLITED_CONFIG_PAGECACHE option specifies a static memory buffer
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration should not be used if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2]
** configuration option.
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using the [SQLITE_CONFIG_PCACHE_HDRSZ] option
** to [sqlite3_config()].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The first
** argument should point to an 8-byte aligned block of memory that
** is at least sz*N bytes of memory, otherwise subsequent behavior is
** undefined.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.</dd>

** ** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd>^The SQLITED_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_SCRATCH] and
** [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITED_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITED_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLite's memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.  
**
** [[SQLite_CONFIG_MUTEX]] <dt>SQLite_CONFIG_MUTEX</dt>  
** <dd> ^(The SQLite_CONFIG_MUTEX option takes a single argument which is a  
** pointer to an instance of the [sqlite3_mutex_methods] structure.  
** The argument specifies alternative low-level mutex routines to be used  
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of  
** the content of the [sqlite3_mutex_methods] structure before the call to  
** [sqlite3_config()] returns.  ^If SQLite is compiled with  
** the [SQLite_THREADSAFE | SQLite_THREADSAFE=0] compile-time option then  
** the entire mutexing subsystem is omitted from the build and hence calls to  
** [sqlite3_config()] with the SQLite_CONFIG_MUTEX configuration option will  
** return [SQLite_ERROR].</dd>  
**
** [[SQLite_CONFIG_GETMUTEX]] <dt>SQLite_CONFIG_GETMUTEX</dt>  
** <dd> ^(The SQLite_CONFIG_GETMUTEX option takes a single argument which  
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The  
** [sqlite3_mutex_methods]  
** structure is filled with the currently defined mutex routines.)^  
** This option can be used to overload the default mutex allocation  
** routines with a wrapper used to track mutex usage for performance  
** profiling or testing, for example.  ^If SQLite is compiled with  
** the [SQLite_THREADSAFE | SQLite_THREADSAFE=0] compile-time option then  
** the entire mutexing subsystem is omitted from the build and hence calls to  
** [sqlite3_config()] with the SQLite_CONFIG_GETMUTEX configuration option will  
** return [SQLite_ERROR].</dd>  
**
** [[SQLite_CONFIG_LOOKASIDE]] <dt>SQLite_CONFIG_LOOKASIDE</dt>  
** <dd> ^(The SQLite_CONFIG_LOOKASIDE option takes two arguments that determine  
** the default size of lookaside memory on each [database connection].  
** The first argument is the  
** size of each lookaside buffer slot and the second is the number of  
** slots allocated to each database connection.)^  ^SQLite makes a copy of  
** [SQLite_DBCONFIG_LOOKASIDE]  
** option to [sqlite3_db_config()] can be used to change the lookaside  
** configuration on individual connections.)^</dd>  
**
** [[SQLite_CONFIG_PCACHE2]] <dt>SQLite_CONFIG_PCACHE2</dt>  
** <dd> ^(The SQLite_CONFIG_PCACHE2 option takes a single argument which is  
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies  
** the interface to a custom page cache implementation.)^  
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>  
**
** [[SQLite_CONFIG_GETPCACHE2]] <dt>SQLite_CONFIG_GETPCACHE2</dt>  
** <dd> ^(The SQLite_CONFIG_PCACHE2 option takes a single argument which is  
** a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of  
** the current page cache implementation into that object.)^</dd>  
**
** [SQLITE_CONFIG_LOG] <dt>SQLITE_CONFIG_LOG</dt>  
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite  
** global [error log].  
** (*The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a  
** function with a call signature of void(*)(void*,int,const char*),  
** and a pointer to void. ^If the function pointer is not NULL, it is  
** invoked by [sqlite3_log()] to process each logging event. ^If the  
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.  
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is  
** passed through as the first parameter to the application-defined logger  
** function whenever that function is invoked. ^The second parameter to  
** the logger function is a copy of the first parameter to the corresponding  
** [sqlite3_log()] call and is intended to be a [result code] or an  
** [extended result code]. ^The third parameter passed to the logger is  
** log message after formatting via [sqlite3_snprintf()].  
** The SQLite logging interface is not reentrant; the logger function  
** supplied by the application must not invoke any SQLite interface.  
** In a multi-threaded application, the application-defined logger  
** function must be threadsafe. </dd>  
**  
** [SQLITE_CONFIG_URI] <dt>SQLITE_CONFIG_URI</dt>  
** <dd> (*The SQLITE_CONFIG_URI option takes a single argument of type int.  
** If non-zero, then URI handling is globally enabled. If the parameter is zero,  
** then URI handling is globally disabled. )^ ^If URI handling is globally  
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],  
** [sqlite3_open16()] or  
** specified as part of [ATTACH] commands are interpreted as URIs, regardless  
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database  
** connection is opened. ^If it is globally disabled, filenames are  
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the  
** database connection is opened. ^(By default, URI handling is globally  
** disabled. The default value may be changed by compiling with the  
** [SQLITE_USE_URI] symbol defined.)^  
**  
** [SQLITE_CONFIG_COVERING_INDEX_SCAN] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN</dt>  
** <dd> (*The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer  
** argument which is interpreted as a boolean in order to enable or disable  
** the use of covering indices for full table scans in the query optimizer.  
** ^The default setting is determined  
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"  
** if that compile-time option is omitted.  
** The ability to disable the use of covering indices for full table scans  
** is because some incorrectly coded legacy applications might malfunction  
** when the optimization is enabled. Providing the ability to  
** disable the optimization allows the older, buggy application code to work  
** without change even with newer versions of SQLite.  
**  
** [SQLite PCache]] [SQLite PCache]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd> This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL in this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd> SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^ 
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd> SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd> SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
The amount of extra space required can change depending on the compiler, target platform, and SQLite version.

```
[[SQLITE_CONFIG_PMASZ]]
<dt>SQLITE_CONFIG_PMASZ
<dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded sorter to that integer. The default minimum PMA Size is set by the [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched to help with sort operations when multithreaded sorting is enabled (using the [PRAGMA threads] command) and the amount of content to be sorted exceeds the page size times the minimum of the [PRAGMA cache_size] setting and this value.
```

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>>> Maven Model (org.apache.maven:maven-model)
>>> Maven Model Builder (org.apache.maven:maven-model-builder)
>>> Maven Repository Metadata Model (org.apache.maven:maven-repository-metadata)
>>> Maven Settings (org.apache.maven:maven-settings)
>>> Maven Settings Builder (org.apache.maven:maven-settings-builder)
>>> Plexus :: Component Annotations (org.codehaus.plexus:plexus-component-annotations)
>>> Plexus Common Utilities (org.codehaus.plexus:plexus-utils)
>>> Plexus Component API (org.codehaus.plexus:plexus-component-api)
>>> Plexus Interpolation API (org.codehaus.plexus:plexus-interpolation)

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>>> Aether API (org.eclipse.aether:aether-api)
>>> Aether Connector Basic (org.eclipse.aether:aether-connector-basic)
>>> Aether Implementation (org.eclipse.aether:aether-impl)
>>> Aether SPI (org.eclipse.aether:aether-spi)
>>> Aether Transport File (org.eclipse.aether:aether-transport-file)
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 * SAX2 extension handler for lexical events.
 *
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 *
 * This is an optional extension handler for SAX2 to provide
 * lexical information about an XML document, such as comments
 * and CDATA section boundaries; XML readers are not required to
 * support this handler, and it is not part of the core SAX2
 * distribution.</p>
 *
 * The events in the lexical handler apply to the entire document,
 * not just to the document element, and all lexical handler events
 * must appear between the content handler's startDocument and
 * endDocument events.</p>
 *
 * To set the LexicalHandler for an XML reader, use the
 * {@link org.xml.sax.XMLReader#setProperty setProperty} method
 * with the propertyId "http://xml.org/sax/properties/lexical-handler".
 * If the reader does not support lexical events, it will throw a
 * SAXNotRecognizedException or a
 * SAXNotSupportedException when you attempt to register the handler.</p>
 *
 * @since 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 *
 * Found in path(s):
 */

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 * Encapsulate a general SAX error or warning.
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 * This class can contain basic error or warning information from
 * either the XML parser or the application: a parser writer or
 * application writer can subclass it to provide additional
 * functionality. SAX handlers may throw this exception or
 * any exception subclassed from it.</p>
 *
 * If the application needs to pass through other types of
 * exceptions, it must wrap those exceptions in a SAXException
 * or an exception derived from a SAXException.</p>
 *
 * If the parser or application needs to include information about a
 * specific location in an XML document, it should use the
 * { @link org.xml.sax.SAXParseException SAXParseException } subclass.</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0r2pre
 * @see org.xml.sax.SAXParseException
 */

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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/xml/sax/SAXException.java

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 * Basic interface for SAX (Simple API for XML) parsers.
 *
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 *
 * This was the main event supplier interface for SAX1; it has  
* been replaced in SAX2 by [@link org.xml.sax.XMLReader XMLReader],  
* which includes Namespace support and sophisticated configurability  
* and extensibility. </p>
 *
* <p>All SAX1 parsers must implement this basic interface: it allows  
* applications to register handlers for different types of events  
* and to initiate a parse from a URI, or a character stream.</p>
* 
* <p>All SAX1 parsers must also implement a zero-argument constructor  
* (though other constructors are also allowed). </p>
* 
* <p>SAX1 parsers are reusable but not re-entrant: the application  
* may reuse a parser object (possibly with a different input source)  
* once the first parse has completed successfully, but it may not  
* invoke the parse() methods recursively within a parse.</p>
* 
* @deprecated This interface has been replaced by the SAX2  
* { @link org.xml.sax.XMLReader XMLReader}  
* interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/w3c/dom/DocumentFragment.java
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/w3c/dom/NodeList.java
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/w3c/dom/CDATASection.java
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/w3c/dom/Text.java
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/w3c/dom/Comment.java
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/w3c/dom/Attr.java
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/w3c/dom/Entity.java
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/w3c/dom/Element.java
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/w3c/dom/Document.java
1.1.3/src/org/w3c/dom/DocumentType.java
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 * $Id: XmlChars.java,v 1.1.1.1 2000/11/23 01:53:35 edwingo Exp $
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1.1.3/src/org/apache/crimson/util/XmlChars.java
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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/apache/crimson/parser/InputEntity.java
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* $Id: CommentNode.java,v 1.2 2001/07/26 22:32:04 edwingo Exp $
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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3-src-zip/crimson-1.1.3/src/org/apache/crimson/tree/ParentNode.java

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* $Id: PINode.java,v 1.1.1.1 2000/11/23 01:53:35 edwingo Exp $
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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/apache/crimson/parser/ContentModelState.java
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// NO WARRANTY! This class is in the public domain.
/**
* Receive notification of the logical content of a document.
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This is the main interface that most SAX applications implement: if the application needs to be informed of basic parsing events, it implements this interface and registers an instance with the SAX parser using the `setContentHandler` method. The parser uses the instance to report basic document-related events like the start and end of elements and character data.

The order of events in this interface is very important, and mirrors the order of information in the document itself. For example, all of an element's content (character data, processing instructions, and/or subelements) will appear, in order, between the startElement event and the corresponding endElement event.

This interface is similar to the now-deprecated SAX 1.0 DocumentHandler interface, but it adds support for Namespaces and for reporting skipped entities (in non-validating XML processors).

Implementors should note that there is also a Java class `ContentHandler` in the java.net package; that means that it's probably a bad idea to do:

```java
import java.net.*;
import org.xml.sax.*;
</blockquote>

In fact, "import ..." is usually a sign of sloppy programming anyway, so the user should consider this a feature rather than a bug.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0r2pre
@see org.xml.sax.XMLReader
@see org.xml.sax.DTDHandler
@see org.xml.sax.ErrorHandler
*/

Found in path(s):
// NO WARRANTY! This class is in the Public Domain.
/**
 * Factory for creating an XML reader.
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 * This class contains static methods for creating an XML reader
 * from an explicit class name, or for creating an XML reader based
 * on the value of the <code>org.xml.sax.driver</code> system
 * property:
 *<p>
 *<pre>
 * try {
 * XMLReader myReader = XMLReaderFactory.createXMLReader;
 * } catch (SAXException e) {
 * System.err.println(e.getMessage());
 * }
 * </pre>
 *</p>
 * Note that these methods will not be usable in environments where
 * system properties are not accessible or where the application or
 * applet is not permitted to load classes dynamically.
 *<p>
 *<strong>Note to implementors:</strong> SAX implementations in specialized
 * environments may replace this class with a different one optimized for the
 * environment, as long as its method signatures remain the same.
 *</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0r2pre
 * @see org.xml.sax.XMLReader
 */

Found in path(s):
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// NO WARRANTY! This class is in the public domain.
/**
* Default implementation of the Attributes interface.
*
* <blockquote>
This class provides a default implementation of the SAX2
{@link org.xml.sax.Attributes Attributes} interface, with the
addition of manipulators so that the list can be modified or
reused.</p>

There are two typical uses of this class:

- to take a persistent snapshot of an Attributes object
  in a {@link org.xml.sax.ContentHandler#startElement startElement} event; or
- to construct or modify an Attributes object in a SAX2 driver or filter.

This class replaces the now-deprecated SAX1
{@link org.xml.sax.helpers.AttributeListImpl AttributeListImpl}
class; in addition to supporting the updated Attributes
interface rather than the deprecated {@link org.xml.sax.AttributeList
AttributeList} interface, it also includes a much more efficient
implementation using a single array rather than a set of Vectors.</p>

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0r2pre
*/

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/*$Id: EndOfInputException.java,v 1.1.1.1 2000/11/23 01:53:33 edwingo Exp$*/

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  1.1.3/src/org/apache/crimson/parser/EndOfInputException.java
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 * Basic interface for resolving entities.
 *
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * If a SAX application needs to implement customized handling
 * for external entities, it must implement this interface and
 * register an instance with the SAX driver using the
 *{@link org.xml.sax.XMLReader#setEntityResolver setEntityResolver}
 * method. </p>
 *
 * The XML reader will then allow the application to intercept any
 * external entities (including the external DTD subset and external
 * parameter entities, if any) before including them.</p>
 *
 * Many SAX applications will not need to implement this interface,
 * but it will be especially useful for applications that build
 * XML documents from databases or other specialised input sources,
 * or for applications that use URI types other than URLs.</p>
 *
 * The following resolver would provide the application
 * with a special character stream for the entity with the system
 * identifier "http://www.myhost.com/today":</p>
 *
 * import org.xml.sax.EntityResolver;
 * import org.xml.sax.InputSource;
 *
 * public class MyResolver implements EntityResolver {
 * public InputSource resolveEntity (String publicId, String systemId)
 * { 
 *   if (systemId.equals("http://www.myhost.com/today")) {
 *     // return a special input source
 *     MyReader reader = new MyReader();
 *   }
* return new InputSource(reader);
* } else {
*     // use the default behaviour
*     return null;
* }
* }
* </pre>
*
* <p>The application can also use this interface to redirect system
* identifiers to local URIs or to look up replacements in a catalog
* (possibly by using the public identifier).</p>
*
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0r2pre
* @see org.xml.sax.Parser#setEntityResolver
* @see org.xml.sax.InputSource
*/

Found in path(s):
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-
  1.1.3/src/org/xml/sax/EntityResolver.java
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// NO WARRANTY!  This class is in the Public Domain.
/**
* Exception class for an unsupported operation.
* *
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
*
* <p>An XMLReader will throw this exception when it recognizes a
* feature or property identifier, but cannot perform the requested
* operation (setting a state or value).  Other SAX2 applications and
* extensions may use this class for similar purposes.</p>
*
* @since SAX 2.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0r2pre
* @see org.xml.sax.SAXNotRecognizedException
*/

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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/apache/crimson/tree/DOMImplementationImpl.java
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3-src-zip/crimson-
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 * $Id: DataNode.java,v 1.2 2001/04/30 21:49:04 edwingo Exp $
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/**
* Basic interface for SAX error handlers.
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* *
* <p>If a SAX application needs to implement customized error
* handling, it must implement this interface and then register an
* instance with the XML reader using the
* {@link org.xml.sax.XMLReader#setErrorHandler setErrorHandler}
* method. The parser will then report all errors and warnings
* through this interface.</p>
* <p><strong>WARNING:</strong> If an application does not register an ErrorHandler, XML parsing errors will go unreported and bizarre behaviour may result.</p>

* For XML processing errors, a SAX driver must use this interface instead of throwing an exception: it is up to the application to decide whether to throw an exception for different types of errors and warnings. Note, however, that there is no requirement that the parser continue to provide useful information after a call to [fatError](#fatError) (in other words, a SAX driver class could catch an exception and report a fatError).</p>

* @since SAX 1.0
* @author David Megginson, sax@megginson.com
* @version 2.0r2pre
* @see org.xml.sax.Parser#setErrorHandler
* @see org.xml.sax.SAXParseException
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/**

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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/apache/crimson/tree/AttributeNode1.java

No license file was found, but licenses were detected in source scan.

/**

* Java-specific class for dynamically loading SAX parsers.
* *
* <blockquote>
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* Public Domain, and comes with <strong>NO WARRANTY</strong>.<br />
* </blockquote>
* <p><strong>Note:</strong> This class is designed to work with the now-deprecated
* SAX1 [@link org.xml.sax.Parser Parser] class. SAX2 applications should use
* [@link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory] instead.</p>

* <p>ParserFactory is not part of the platform-independent definition
* of SAX; it is an additional convenience class designed
* specifically for Java XML application writers. SAX applications
* can use the static methods in this class to allocate a SAX parser
* dynamically at run-time based either on the value of the
* `org.xml.sax.parser` system property or on a string containing the class
* name.</p>

* <p>Note that the application still requires an XML parser that
* implements SAX1.</p>

* @deprecated This class works with the deprecated
*             {@link org.xml.sax.Parser Parser}
*             interface.
* @since SAX 1.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0r2pre
* @see org.xml.sax.Parser
* @see java.lang.Class
*/

Found in path(s):
/opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/xml/sax/helpers/ParserFactory.java
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/**
 * Interface for a list of XML attributes.
 *
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 *
 * <p>This interface allows access to a list of attributes in
 * three different ways:</p>
 *
The list will not contain attributes that were declared
#IMPLIED but not specified in the start tag. It will also not
contain attributes used as Namespace declarations (xmlns*) unless
the <code>http://xml.org/sax/features/namespace-prefixes</code>
feature is set to <var>true</var> (it is <var>false</var> by
default). </p>

If the namespace-prefixes feature (see above) is <var>false</var>,
access by qualified name may not be available; if the
<code>http://xml.org/sax/features/namespaces</code>
feature is <var>false</var>, access by Namespace-qualified names
may not be available. </p>

This interface replaces the now-deprecated SAX1 @{link
org.xml.sax.AttributeList AttributeList} interface, which does not
contain Namespace support. In addition to Namespace support, it
adds the <var>getIndex</var> methods (below). </p>

The order of attributes in the list is unspecified, and will
vary from implementation to implementation. </p>

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0r2pre
@see org.xml.sax.helpers.AttributeListImpl

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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-
1.1.3/src/org/apache/crimson/parser/XMLReaderImpl.java
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/**
* Receive notification of general document events.
* 
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* </blockquote>
* 
* This was the main event-handling interface for SAX1; in
* SAX2, it has been replaced by {@link org.xml.sax.ContentHandler
* ContentHandler}, which provides Namespace support and reporting
* of skipped entities. This interface is included in SAX2 only
* to support legacy SAX1 applications.</p>
* 
* The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.</p>
* 
* Application writers who do not want to implement the entire
* interface can derive a class from HandlerBase, which implements
* the default functionality; parser writers can instantiate
* HandlerBase to obtain a default handler. The application can find
* the location of any document event using the Locator interface
* supplied by the Parser through the setDocumentLocator method.</p>
* 
* @deprecated This interface has been replaced by the SAX2
*                 {@link org.xml.sax.ContentHandler ContentHandler}
* interface, which includes Namespace support.
* @since SAX 1.0
@author David Megginson,
   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0r2pre
@see org.xml.sax.Parser#setDocumentHandler
@see org.xml.sax.Locator
@see org.xml.sax.HandlerBase
*/

Found in path(s):
/opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/xml/sax/DocumentHandler.java
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 * $Id: ElementNode.java,v 1.8 2001/04/11 02:27:56 edwingo Exp $
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1.1.3/src/org/apache/crimson/tree/ElementNode.java
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/**
* Encapsulate an XML parse error or warning.
* *
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.
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*
* <p>This exception will include information for locating the error
* in the original XML document. Note that although the application
* will receive a SAXParseException as the argument to the handlers
* in the [ @link org.xml.sax.ErrorHandler ErrorHandler ] interface,
* the application is not actually required to throw the exception;
* instead, it can simply read the information in it and take a
* different action.</p>
*
* <p>Since this exception is a subclass of [ @link org.xml.sax.SAXException
* SAXException ], it inherits the ability to wrap another exception.</p>
* *
* @since SAX 1.0
Adapt a SAX1 Parser as a SAX2 XMLReader.

* This class wraps a SAX1 [Parser](org.xml.sax.Parser) and makes it act as a SAX2 [XMLReader](org.xml.sax.XMLReader), with feature, property, and Namespace support. Note that it is not possible to report [ContentHandler#skippedEntity](org.xml.sax.ContentHandler#skippedEntity) events, since SAX1 does not make that information available.

This adapter does not test for duplicate Namespace-qualified attribute names.

Adapt a SAX1 AttributeList as a SAX2 Attributes object.

This class is in the Public Domain, and comes with NO WARRANTY of any kind.

This wrapper class is used only when Namespace support is disabled -- it provides pretty much a direct mapping from SAX1 to SAX2, except that names and types are...
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/*
 * $Id: Doctype.java,v 1.3 2001/05/23 21:40:04 edwingo Exp $
 */

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1.1.3/src/org/apache/crimson/tree/Doctype.java

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/**
 * Interface for an element's attribute specifications.
 *
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 *
 * This is the original SAX1 interface for reporting an element's
 * attributes. Unlike the new { @link org.xml.sax.Attributes Attributes }
 * interface, it does not support Namespace-related information.</p>
 *
 * When an attribute list is supplied as part of a
 * { @link org.xml.sax.DocumentHandler#startElement startElement }
 * event, the list will return valid results only during the
 * scope of the event; once the event handler returns control
 * to the parser, the attribute list is invalid. To save a
 * persistent copy of the attribute list, use the SAX1
 * { @link org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
 * helper class.</p>
 *
 * An attribute list includes only attributes that have been
 * specified or defaulted: #IMPLIED attributes will not be included.</p>
 *
 * There are two ways for the SAX application to obtain information
from the AttributeList. First, it can iterate through the entire list:

```java
public void startElement (String name, AttributeList atts) {
    for (int i = 0; i < atts.getLength(); i++) {
        String name = atts.getName(i);
        String type = atts.getType(i);
        String value = atts.getValue(i);
        [...]
    }
}
```

(Note that the result of `getLength()` will be zero if there are no attributes.)

As an alternative, the application can request the value or type of specific attributes:

```java
public void startElement (String name, AttributeList atts) {
    String identifier = atts.getValue("id");
    String label = atts.getValue("label");
    [...]
}
```

@deprecated This interface has been replaced by the SAX2 interface, which includes Namespace support.

@since SAX 1.0
@author David Megginson,
        <a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0r2pre
@see org.xml.sax.DocumentHandler#startElement startElement
@see org.xml.sax.helpers.AttributeListImpl AttributeListImpl

Found in path(s):
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/xml/sax/AttributeList.java

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  1.1.3/src/org/apache/crimson/util/XmlNames.java
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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-
1.1.3/src/org/apache/crimson/util/MessageCatalog.java
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// This class is in the Public Domain. NO WARRANTY!
/**
* Encapsulate Namespace logic for use by SAX drivers.
*
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* Public Domain, and comes with <strong>NO WARRANTY</strong>,</em></blockquote>
*
* This class encapsulates the logic of Namespace processing:
* it tracks the declarations currently in force for each context
* and automatically processes qualified XML 1.0 names into their
* Namespace parts; it can also be used in reverse for generating
* XML 1.0 from Namespaces.</p>
*
* Namespace support objects are reusable, but the reset method
* must be invoked between each session.</p>
* 
* Here is a simple session:
*
* String parts[] = new String[3];
NamespaceSupport support = new NamespaceSupport();
* 
* support.pushContext();
* support.declarePrefix("", "http://www.w3.org/1999/xhtml");
* support.declarePrefix("dc", "http://www.purl.org/dc#");
* 
* String parts[] = support.processName("p", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);
* 
* String parts[] = support.processName("dc:title", parts, false);
* System.out.println("Namespace URI: " + parts[0]);
* System.out.println("Local name: " + parts[1]);
* System.out.println("Raw name: " + parts[2]);
* 
* support.popContext();
* </pre>
* 
* <p>Note that this class is optimized for the use case where most
* elements do not contain Namespace declarations: if the same
* prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient.</p>
* 
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0r2pre
*/

Found in path(s):
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3-src-zip/crimson-1.1.3/src/org/xml/sax/helpers/NamespaceSupport.java
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/*
* $Id: XmlReader.java,v 1.1.1.1 2000/11/23 01:53:33 edwingo Exp $
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Found in path(s):
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/apache/crimson/parser/XmlReader.java
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/**
 * Default implementation for AttributeList.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * AttributeList implements the deprecated SAX1 [ @link
 * org.xml.sax.AttributeList AttributeList] interface, and has been
 * replaced by the new SAX2 [ @link org.xml.sax.helpers.AttributesImpl
 * AttributesImpl] interface.
 *
 * This class provides a convenience implementation of the SAX
 * [ @link org.xml.sax.AttributeList AttributeList] interface. This
 * implementation is useful both for SAX parser writers, who can use
 * it to provide attributes to the application, and for SAX application
 * writers, who can use it to create a persistent copy of an element's
 * attribute specifications:
 *
 * private AttributeList myatts;
 *
 * public void startElement (String name, AttributeList atts)
 * {
 *       // create a persistent copy of the attribute list
 *       // for use outside this method
 *       myatts = new AttributeListImpl(atts);
 *       [...] 
 *   }
 * </pre>
 *
 * Please note that SAX parsers are not required to use this
 * class to provide an implementation of AttributeList; it is
 * supplied only as an optional convenience. In particular,
 * parser writers are encouraged to invent more efficient
 * implementations.
 *
 * @deprecated This class implements a deprecated interface,
 * [ @link org.xml.sax.AttributeList AttributeList]; that interface has been replaced by
 * [ @link org.xml.sax.Attributes Attributes],
 * which is implemented in the
 * [ @link org.xml.sax.helpers.AttributesImpl
 * AttributesImpl] helper class.
 * @since SAX 1.0
@author David Megginson,
     <a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0r2pre
@see org.xml.sax.AttributeList
@see org.xml.sax.DocumentHandler#startElement

Found in path(s):
/opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/xml/sax/helpers/AttributeListImpl.java

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 * $Id: XmlWritable.java,v 1.1.1.1 2000/11/23 01:53:34 edwingo Exp $
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1.1.3/src/org/apache/crimson/tree/XmlWritable.java
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// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for reading an XML document using callbacks.
 *
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *<p><strong>Note:</strong> despite its name, this interface does
 * not extend the standard Java [link java.io.Reader Reader]
 * interface, because reading XML is a fundamentally different activity
 * than reading character data.</p>
 *
 * <p>XMLReader is the interface that an XML parser's SAX2 driver must
 * implement. This interface allows an application to set and
 * query features and properties in the parser, to register
 * event handlers for document processing, and to initiate
 * a document parse.</p>
 *
 * All SAX interfaces are assumed to be synchronous: the
* {@link #parse parse} methods must not return until parsing is complete, and readers must wait for an event-handler callback to return before reporting the next event.</p>
*<p>This interface replaces the (now deprecated) SAX 1.0 [ @link
* org.xml.sax.Parser Parser] interface. The XMLReader interface contains two important enhancements over the old Parser interface:</p>
*<ol><li>it adds a standard way to query and set features and properties; and</li><li>it adds Namespace support, which is required for many higher-level XML standards.</li></ol><p>There are adapters available to convert a SAX1 Parser to a SAX2 XMLReader and vice-versa.</p>
*<p>@since SAX 2.0</p>
*<p>@author David Megginson, sax@megginson.com</p>
*<p>@version 2.0r2pre</p>
*<p>@see org.xml.sax.XMLFilter</p>
*<p>@see org.xml.sax.helpers.ParserAdapter</p>
*<p>@see org.xml.sax.helpers.XMLReaderAdapter</p>*/

Found in path(s):
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/xml/sax/XMLReader.java
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1.1.3/src/org/apache/crimson/parser/AttributesEx.java

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/* $Id: ElementFactory.java,v 1.1.1.1 2000/11/23 01:53:35 edwingo Exp $ */

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* Interface for associating a SAX event with a document location.

* <blockquote>
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* </blockquote>

* <p>If a SAX parser provides location information to the SAX application, it does so by implementing this interface and then passing an instance to the application using the content handler's [@link org.xml.sax.ContentHandler#setDocumentLocator setDocumentLocator] method. The application can use the object to obtain the location of any other content handler event in the XML source document.</p>

* <p>Note that the results returned by the object will be valid only during the scope of each content handler method: the application will receive unpredictable results if it attempts to use the locator at any other time.</p>

* <p>SAX parsers are not required to supply a locator, but they are very strongly encouraged to do so. If the parser supplies a locator, it must do so before reporting any other document events. If no locator has been set by the time the application receives the [@link org.xml.sax.ContentHandler#startDocument startDocument] event, the application should assume that a locator is not available.</p>

* @since SAX 1.0
* @author David Megginson,
*   <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0r2pre

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* @see org.xml.sax.ContentHandler#setDocumentLocator
*/

Found in path(s):
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3-src.zip/crimson-1.1.3/src/org/xml/sax/Locator.java

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/**
 * SAX2 extension handler for DTD declaration events.
 *
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 *
 * Note that data-related DTD declarations (unparsed entities and
 * notations) are already reported through the
 * org.xml.sax.DTDHandler DTDHandler interface.
 *
 * If you are using the declaration handler together with a lexical
 * handler, all of the events will occur between the
 * org.xml.sax.ext.LexicalHandler#startDTD startDTD and the
 * org.xml.sax.ext.LexicalHandler#endDTD endDTD events.
 *
 * To set the DeclHandler for an XML reader, use the
 * org.xml.sax.XMLReader#setProperty method
 * with the propertyId "http://xml.org/sax/properties/declaration-handler".
 * If the reader does not support declaration events, it will throw a
 * SAXNotRecognizedException.
 * or a
 * SAXNotSupportedException
 * when you attempt to register the handler.
 *
 * @since 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 1.0
 * @see org.xml.sax.XMLReader
*/

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/**
 * Provide an optional convenience implementation of Locator.
 *<blockquote>
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 *</blockquote>
 *
 * This class is available mainly for application writers, who
 * can use it to make a persistent snapshot of a locator at any
 * point during a document parse:</p>
 *
 * <pre>
 * Locator locator;
 * Locator startloc;
 *
 * public void setLocator (Locator locator)
 * {
 *     // note the locator
 *     this.locator = locator;
 * }
 *
 * public void startDocument ()
 * {
 *     // save the location of the start of the document
 *     // for future use.
 *     Locator startloc = new LocatorImpl(locator);
 * }
 * </pre>
 *
 * Normally, parser writers will not use this class, since it
 * is more efficient to provide location information only when
 * requested, rather than constantly updating a Locator object.</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0r2pre
 * @see org.xml.sax.Locator Locator
 */

Found in path(s):
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/xml/sax/helpers/LocatorImpl.java
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// NO WARRANTY!  This class is in the Public Domain.
/**
 * Exception class for an unrecognized identifier.
 *
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 *
 * <p>An XMLReader will throw this exception when it finds an
 * unrecognized feature or property identifier; SAX applications and
 * extensions may use this class for other, similar purposes.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0r2pre
 * @see org.xml.sax.SAXNotSupportedException
 */

Found in path(s):
*/
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3-src-zip/crimson-1.1.3/src/org/xml/sax/SAXNotRecognizedException.java
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* Base class for deriving an XML filter.

*  

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*  

* This class is designed to sit between an [XMLReader]

* and the client application's event handlers.  By default, it

* does nothing but pass requests up to the reader and events

* on to the handlers unmodified, but subclasses can override

* specific methods to modify the event stream or the configuration

* requests as they pass through. 

*  

* @since SAX 2.0

* @author David Megginson,

*  

* sax@megginson.com

* @version 2.0r2pre

* @see org.xml.sax.XMLFilter

* @see org.xml.sax.XMLReader

* @see org.xml.sax.EntityResolver

* @see org.xml.sax.DTDHandler

* @see org.xml.sax.ContentHandler

* @see org.xml.sax.ErrorHandler

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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1-3-src-zip/crimson-
1.1.3/src/org/apache/crimson/tree/XmlDocumentBuilderNS.java

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/*
* $Id: XmlDocumentBuilder.java,v 1.6 2001/09/14 00:50:25 edwingo Exp $
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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3-src-zip/crimson-1.1.3/src/org/apache/crimson/tree/XmlDocumentBuilder.java

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/ *
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  1.1.3/src/org/apache/crimson/tree/NodeBase.java
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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/apache/crimson/tree/SimpleElementFactory.java
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package javax.xml.parsers;

import java.io.InputStream;
import java.io.IOException;
import java.io.File;
import java.io.FileInputStream;
import java.util.Properties;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.lang.reflect.Method;
import java.lang.reflect.InvocationTargetException;

/**
 * This class is duplicated for each JAXP subpackage so keep it in sync.
 * It is package private and therefore is not exposed as part of the JAXP
 * API.
 *
 * This code is designed to implement the JAXP 1.1 spec pluggability
 * feature and is designed to both compile and run on JDK version 1.1 and
 * later. The code also runs both as part of an unbundled jar file and
 * when bundled as part of the JDK.
 */
class FactoryFinder {
    /** Set to true for debugging */
    private static final boolean debug = true;

    private static void debugPrintln(String msg) {
        if (debug) {
            System.err.println("JAXP: " + msg);
        }
    }

    /**
     * Figure out which ClassLoader to use. For JDK 1.2 and later use
     * the context ClassLoader.
     */
    private static ClassLoader findClassLoader()
        throws ConfigurationError
    {
        Method m = null;

        try {
            return
        }
m = Thread.class.getMethod("getContextClassLoader", null);
} catch (NoSuchMethodException e) {
    // Assume that we are running JDK 1.1, use the current ClassLoader
    debugPrintln("assuming JDK 1.1");
    return FactoryFinder.class.getClassLoader();
}

try {
    return (ClassLoader) m.invoke(Thread.currentThread(), null);
} catch (IllegalAccessException e) {
    // assert(false)
    throw new ConfigurationError("Unexpected IllegalAccessException", e);
} catch (InvocationTargetException e) {
    // assert(e.getTargetException() instanceof SecurityException)
    throw new ConfigurationError("Unexpected InvocationTargetException", e);
}

/**
* Create an instance of a class using the specified ClassLoader
*/
private static Object newInstance(String className, ClassLoader classLoader)
throws ConfigurationError
{
    try {
        Class spiClass;
        if (classLoader == null) {
            spiClass = Class.forName(className);
        } else {
            spiClass = classLoader.loadClass(className);
        }
        return spiClass.newInstance();
    } catch (ClassNotFoundException x) {
        throw new ConfigurationError("Provider " + className + " not found", x);
    } catch (Exception x) {
        throw new ConfigurationError("Provider " + className + " could not be instantiated: " + x, x);
    }
}

/**
* Finds the implementation Class object in the specified order.  Main
* entry point.
* @return Class object of factory, never null
*
* @param factoryId Name of the factory to find, same as
*                 a property name
* @param fallbackClassName Implementation class name, if nothing else
*                 is found. Use null to mean no fallback.
*
* @exception FactoryFinder.ConfigurationError
*
* Package private so this code can be shared.
*/
static Object find(String factoryId, String fallbackClassName)
  throws ConfigurationError
{
    debugPrintln("debug is on");

    ClassLoader classLoader = findClassLoader();

    // Use the system property first
    try {
      String systemProp =
        System.getProperty(factoryId);
      if (systemProp!=null) {
        debugPrintln("found system property " + systemProp);
        return newInstance(systemProp, classLoader);
      }
    } catch (SecurityException se) {
    }

    // try to read from $java.home/lib/xml.properties
    try {
      String javah=System.getProperty("java.home");
      String configFile = javah + File.separator +
        "lib" + File.separator + "jaxp.properties";
      File f=new File(configFile);
      if (f.exists()) {
        Properties props=new Properties();
        props.load(new FileInputStream(f));
        String factoryClassName = props.getProperty(factoryId);
        debugPrintln("found java.home property " + factoryClassName);
        return newInstance(factoryClassName, classLoader);
      }
    } catch (Exception ex) {
      if (debug) {
        debugPrintln("Caught ex = " + ex);
        ex.printStackTrace();
      }
    }

    //
String serviceId = "META-INF/services/" + factoryId;
// try to find services in CLASSPATH
try {
    debugPrintln("Attempt to load resource = " + serviceId);
    InputStream is = null;
    if (classLoader == null) {
        is = ClassLoader.getSystemResourceAsStream(serviceId);
    } else {
        is = classLoader.getResourceAsStream(serviceId);
    }
    if (is != null) {
        debugPrintln("found " + serviceId);
        BufferedReader rd =
            new BufferedReader(new InputStreamReader(is, "UTF-8"));
        String factoryClassName = rd.readLine();
        rd.close();
        if (factoryClassName != null &&
            !"".equals(factoryClassName)) {
            debugPrintln("loaded from services: " + factoryClassName);
            return newInstance(factoryClassName, classLoader);
        }
    }
    catch (Exception ex) {
        if (debug) {
            debugPrintln("Caught ex 2 = " + ex);
//
            ex.printStackTrace();
            new Throwable().printStackTrace();
        }
    }
}
if (fallbackClassName == null) {
    throw new ConfigurationError(
        "Provider for " + factoryId + " cannot be found", null);
}

ddebugPrintln("loaded from fallback value: " + fallbackClassName);
return newInstance(fallbackClassName, classLoader);

static class ConfigurationError extends Error {
    private Exception exception;

    ******/
* Construct a new instance with the specified detail string and
* exception.
*/
ConfigurationError(String msg, Exception x) {
    super(msg);
    this.exception = x;
}

Exception getException() {
    return exception;
}
}

// NO WARRANTY! This class is in the public domain.
/**
* Adapt a SAX2 XMLReader as a SAX1 Parser.
*<blockquote>
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*<em></em></em></quote>
*<p>This class wraps a SAX2 [@link org.xml.sax.XMLReader XMLReader] and makes it act as a SAX1 [@link org.xml.sax.Parser Parser]. The XMLReader must support a true value for the
*http://xml.org/sax/features/namespace-prefixes property or parsing will fail
*with a [@link org.xml.sax.SAXException SAXException]; if the XMLReader supports a false value for the http://xml.org/sax/features/namespace-prefixes
*property, that will also be used to improve efficiency.</p>
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/xml/sax/helpers/XMLReaderAdapter.java
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  1.1.3/src/org/apache/crimson/tree/ElementEx.java
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/**
 * Receive notification of basic DTD-related events.
 *
 * <blockquote>
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*
* If a SAX application needs information about notations and
* unparsed entities, then the application implements this
* interface and registers an instance with the SAX parser using
* the parser's setDTDHandler method. The parser uses the
* instance to report notation and unparsed entity declarations to
* the application. </p>
*
* Note that this interface includes only those DTD events that
* the XML recommendation requires processors to report:
* notation and unparsed entity declarations. </p>
*
* The SAX parser may report these events in any order, regardless
* of the order in which the notations and unparsed entities were
* declared; however, all DTD events must be reported after the
* document handler's startDocument event, and before the first
* startElement event. </p>
*
* It is up to the application to store the information for
* future use (perhaps in a hash table or object tree).
* If the application encounters attributes of type "NOTATION",
* "ENTITY", or "ENTITIES", it can use the information that it
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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/apache/crimson/tree/XmlWriteContext.java
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 * $Id: ExternalEntity.java,v 1.2 2001/06/15 01:57:53 edwingo Exp $
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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1-1-3-src-zip/crimson-1.1.3/src/org/apache/crimson/parser/ExternalEntity.java
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/ **
* A single input source for an XML entity.
* 
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong></em>. </blockquote>
* 
* <p>This class allows a SAX application to encapsulate information
* about an input source in a single object, which may include
* a public identifier, a system identifier, a byte stream (possibly
* with a specified encoding), and/or a character stream.</p>
* 
* <p>There are two places that the application will deliver this
* input source to the parser: as the argument to the Parser.parse
* method, or as the return value of the EntityResolver.resolveEntity
* method.</p>
* 
* The SAX parser will use the InputSource object to determine how
* to read XML input. If there is a character stream available, the
* parser will read that stream directly; if not, the parser will use
* a byte stream, if available; if neither a character stream nor a
* byte stream is available, the parser will attempt to open a URI
* connection to the resource identified by the system
* identifier.</p>
* An InputSource object belongs to the application: the SAX parser shall never modify it in any way (it may modify a copy if necessary).</p>
* @since SAX 1.0
* @author David Megginson,
*       <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0r2pre
* @see org.xml.sax.Parser#parse
* @see org.xml.sax.EntityResolver#resolveEntity
* @see java.io.InputStream
* @see java.io.Reader
*/

Found in path(s):
*/opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3-src-zip/crimson-
1.1.3/src/org/xml/sax/InputSource.java
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/**
* Default base class for handlers.
*
* <p>This class implements the default behaviour for four SAX1 interfaces: EntityResolver, DTDHandler, DocumentHandler,
* and ErrorHandler. It is now obsolete, but is included in SAX2 to support legacy SAX1 applications. SAX2 applications should use
* the DefaultHandler class instead.</p>
*
* Application writers can extend this class when they need to implement only part of an interface; parser writers can instantiate this class to provide default handlers when the application has not supplied its own.</p>
*
* Note that the use of this class is optional.</p>
*
* @deprecated This class works with the deprecated interfaces: DocumentHandler
* DocumentHandler, DocumentHandler, DocumentHandler, DocumentHandler,
* and ErrorHandler. It is now obsolete, but is included in SAX2 to support legacy SAX1 applications. SAX2 applications should use
* the DefaultHandler class.
* @since SAX 1.0
Found in path(s):
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/xml/sax/HandlerBase.java

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* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3-src-zip/crimson-
* 1.1.3/src/org/apache/crimson/parser/Resolver.java
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/**
 * Default base class for SAX2 event handlers.
 */
This class is available as a convenience base class for SAX2 applications: it provides default implementations for all of the callbacks in the four core SAX2 handler classes:

```java
<ul>
<li>`@link org.xml.sax.EntityResolver EntityResolver`</li>
<li>`@link org.xml.sax.DTDHandler DTDHandler`</li>
<li>`@link org.xml.sax.ContentHandler ContentHandler`</li>
<li>`@link org.xml.sax.ErrorHandler ErrorHandler`</li>
</ul>
```

Application writers can extend this class when they need to implement only part of an interface; parser writers can instantiate this class to provide default handlers when the application has not supplied its own.

This class replaces the deprecated SAX1 `@link org.xml.sax.HandlerBase HandlerBase` class.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0r2pre
@see org.xml.sax.EntityResolver
@see org.xml.sax.DTDHandler
@see org.xml.sax.ContentHandler
@see org.xml.sax.ErrorHandler
*

Found in path(s):
* /opt/cola/permits/1259100690_1646268241.75/0/crimson-1.1.3/src/org/xml/sax/helpers/DefaultHandler.java

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// NO WARRANTY! This class is in the Public Domain.
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 * Interface for an XML filter.
 *
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 * </blockquote>
 * */
An XML filter is like an XML reader, except that it obtains its events from another XML reader rather than a primary source like an XML document or database. Filters can modify a stream of events as they pass on to the final application.

The XMLFilterImpl helper class provides a convenient base for creating SAX2 filters, by passing on all EntityResolver, DTDHandler, ContentHandler and ErrorHandler events automatically.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0r2pre
@see org.xml.sax.helpers.XMLFilterImpl

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its {@link ChannelPipeline}.  
 *
 * <h3>Sub-types</h3>
 * <p>
 * [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
 * <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 *<p>
 * Alternatively, the following adapter classes are provided for your convenience:
 *<ul>
 * <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
 * </ul>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <h3>The context object</h3>
* 
* A {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* channel pipeline it belongs to via a context object. Using the context object, the {@link ChannelHandlerContext} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A {@link ChannelHandlerContext} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* 
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends {@link SimpleChannelInboundHandler<Message>} {
*     private boolean loggedIn;
*     
*     @Override
*     public void channelRead0(@ChannelHandlerContext ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else (message instanceof GetDataMessage) {
*             if (!loggedIn) {
*                 fail();
*             } else {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             }
*         }
*     }
* }
* 
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel) }.
* public class DataServerInitializer extends { @link ChannelInitializer}@{ @link Channel }&gt; { 
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) { 
*         channel.pipeline().addLast("handler", {b}new DataServerHandler()\n});
*     }
* }
* </pre>
* </h4>
* 
* <h4>Using { @link AttributeKey }s</h4>
* 
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey }s which is provided by
* { @link ChannelHandlerContext }:
* 
* public interface Message { 
*     // your methods here 
* } 
* 
* { @code @Sharable }
* public class DataServerHandler extends { @link SimpleChannelInboundHandler }&lt;Message&gt; { 
*     private final { @link AttributeKey }&lt;@link Boolean &gt; auth = 
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
* 
*     { @code @Override }
*     public void channelRead({ @link ChannelHandlerContext } ctx, Message message) { 
*         { @link Attribute }&lt;{ @link Boolean }&gt; attr = ctx.attr(auth); 
*         if (message instanceof LoginMessage) { 
*             authenticate((LoginMessage) o);
*             &lt;b&gt;attr.set(true)&lt;/b&gt;;
*         } else (message instanceof GetDataMessage) { 
*             if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) { 
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else { 
*                 fail();
*             }
*         }
*         ... 
*     }
* </pre>
* 
* Now that the state of the handler is attached to the { @link ChannelHandlerContext }, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends ChannelInitializer {
*     private static final DataServerHandler SHARED = new DataServerHandler();
*     @Override
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", SHARED);
*     }
* }
* </pre>
* 
* The @Sharable annotation
* In the example above which used an AttributeKey, you might have noticed the @Sharable annotation.
* If a ChannelHandler is annotated with the @Sharable annotation, it means you can create an instance of the handler just once and add it to one or more ChannelPipeline's multiple times without a race condition.
* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.
* This annotation is provided for documentation purpose, just like a href="http://www.javaconcurrencyinpractice.com/annotations/doc/" the JCIP annotations.</a>.
* 
* Additional resources worth reading
* Please refer to the ChannelHandler, and ChannelPipeline to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
*

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  jar/io/netty/channel/PreferHeapByteBufAllocator.java
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 jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4-1-45-final-sources-1-
 jar/io/netty/channel/pool/SimpleChannelPool.java
* /opt/ws_local/PERMITS_SQL/1068271564_1594338139.69/0/netty-transport-4-1-45-final-sources-1-
 jar/io/netty/channel/pool/package-info.java

1.1939 byte-buddy 1.7.11
1.1939.1 Available under license:
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*/
/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [@link TypeReference].
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 *
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 *
 * @param desc
 * the class descriptor of the annotation class.
 */

Found in path(s):
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/LocalVariableAnnotationNode.java
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/*
/**
 * Creates a new [link GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 * @param access
 * the method's access flags (see [link Opcodes]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [link Type Type]).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
  jar/net/bytebuddy/jar/asm/commons/GeneratorAdapter.java
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* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/ClassVisitor.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/tree/InnerClassNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/Label.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/LineNumberNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/MethodWriter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/Edge.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/Type.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/tree/analysis=Value.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/FieldWriter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/Opcodes.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/Context.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/tree/InclineInsnNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/ModuleVisitor.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/AnnotationVisitor.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/tree/analysis/SourceValue.java
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jar/net/bytebuddy/jar/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/AnnotationNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/analysis/Frame.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/FieldNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tools/Retrofitter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/util/ASMifier.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/ClassWriter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/JumpInsnNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tools/ModuleInfoBndPlugin.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/util/Printer.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tools/CheckFieldAdapter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/AnnotationWriter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/Handle.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/ModuleExportNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/util/TraceModuleVisitor.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/MethodVisitor.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/SourceInterpreter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/commons/FieldRemapper.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
jar/net/bytebuddy/jar/asm/tree/MethodInsnNode.java
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*/

/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type}).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getInternalName() getInternalName()}). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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*/
/**
 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 *    the owner's class name.
 * @param access
 *    the method's access flags (see {@link Opcodes}).
 * @param name
 *    the method's name.
 * @param desc
 *    the method's descriptor (see {@link Type Type}).
 * @param mv
 *    the method visitor to which this adapter delegates calls. May
 *    be <tt>null</tt>.
 * @throws IllegalStateException
 *    If a subclass calls this constructor.
 */

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* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/xml/SAXAdapter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/xml/Processor.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/xml/SAXModuleAdapter.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
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 */
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
  jar/net/bytebuddy/jar/asm/util/Textifier.java
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* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/TypeReference.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-jar/net/bytebuddy/jar/asm/TypePath.java
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* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
  jar/net/bytebuddy/jar/asm/util/ASMifiable.java
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
  jar/net/bytebuddy/jar/asm/util/Textifiable.java

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 * version.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1002965612_1646171675.84/0/byte-buddy-1-7-11-sources-
  jar/net/bytebuddy/jar/asm/tree/ClassNode.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
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jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/QNameDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractSAXParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecurityConfiguration.java
jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/ObjectFactory.java

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 */
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */

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  jar/org/apache/xerces/impl/io/UTF8Reader.java
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  jar/org/apache/xerces/impl/TextReader.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SAXParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaLoader.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/UniqueOrKey.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/KeyRef.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMXSImplementationSourceImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDTDS scannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XXSGroupDecl.java
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 */
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
 * then be configured by means of its <code>DOMConfiguration</code>
 * object, and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode The <code>mode</code> argument is either
 * <code>MODE_SYNCHRONOUS</code> or <code>MODEASYNCHRONOUS</code>, if
 * <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 * <code>LSParser</code> that is created will operate in synchronous
 * mode, if it's <code>MODEASYNCHRONOUS</code> then the
 * <code>LSParser</code> that is created will operate in asynchronous
 * mode.
 * @param schemaType An absolute URI representing the type of the schema
 * language used during the load of a <code>Document</code> using the
 * newly created <code>LSParser</code>. Note that no lexical checking
 * is done on the absolute URI. In order to create a
 * <code>LSParser</code> for any kind of schema types (i.e. the
 * LSParser will be free to use any schema found), use the value
 * <code>null</code>.
 * , applications must use the value
 * <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [a href="http://www.w3.org/TR/2000/REC-xml-20001006">XML 1.0</a>],
 * applications must use the value
 * <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
 * are outside the scope of the W3C and therefore should recommend an
absolute URI in order to use this method.

* @return The newly created <code>LSParser</code> object. This
* <code>LSParser</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument.
* <p>Note: By default, the newly created <code>LSParser</code>
* does not contain a <code>DOMErrorHandler</code>, i.e. the value of
* the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-handler'>error-handler</a>" configuration parameter is <code>null</code>. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the <code>error-handler</code> configuration
* parameter on the new created <code>LSParser</code> contains a
* reference to the default error handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
* */

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/TextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSDFACM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIAttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIElementNSImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11DTDConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/ObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSFloat.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EntityResolver2Wrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/ByteList.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/XSDateTime.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/HTTPInputSource.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv(xs/YearMonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv(xs/DateDV.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dtd/XMLDTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityManager.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/wml/WMLStrongElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources.jar/org/apache/wml/WMLEmElement.java
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jar/org/apache/wml/WMLDoElement.java
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jar/org/apache/wml/WMLDOMImplementation.java
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jar/org/apache/wml/WMLCardElement.java
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jar/org/apache/wml/WMLMetaElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLFieldsetElement.java
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jar/org/apache/wml/WMLSetvarElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLTemplateElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-
jar/org/apache/wml/WMLGoElement.java
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jar/org/apache/wml/WMLInputElement.java
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jar/org/apache/wml/WMLRefreshElement.java
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jar/org/apache/wml/WMLHeadElement.java
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jar/org/apache/wml/WMLTimerElement.java
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jar/org/apache/wml/WMLOptgroupElement.java
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jar/org/apache/wml/WMLAccessElement.java
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jar/org/apache/wml/WMLPostfieldElement.java
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jar/org/apache/wml/WMLOptionElement.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv xs/XSSimpleTypeDecl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/SimpleLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLResourceIdentifierImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XML11Serializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CoreDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/TextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMLeaf.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/BaseMarkupSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDProcessor.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DOMParserImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configuration.java

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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/ddt/NOTATIONDatatypeValidator.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLContentSpec.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/CachingParserPool.java
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* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java
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1.1949 jdom 1.0

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$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp $

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$Id: BuilderErrorHandler.java,v 1.12 2004/02/06 09:28:31 jhunter Exp $

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$Id: AbstractFilter.java,v 1.5 2004/02/27 11:32:58 jhunter Exp $

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/**

$Id: JDOMException.java,v 1.23 2004/02/27 11:32:57 jhunter Exp $

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$Id: SAXOutputter.java,v 1.37 2004/09/03 06:11:00 jhunter Exp $

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$Id: OracleV2DOMAdapter.java,v 1.18 2004/02/06 09:28:31 jhunter Exp $

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$Id: CDATA.java,v 1.30 2004/02/27 11:32:57 jhunter Exp $

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$Id: ProcessingInstruction.java,v 1.46 2004/02/27 11:32:57 jhunter Exp $

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$Id: XMLOutputter.java,v 1.112 2004/09/01 06:08:18 jhunter Exp $

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$Id: CrimsonDOMAdapter.java,v 1.16 2004/02/06 09:28:31 jhunter Exp $

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$Id: TextBuffer.java,v 1.8 2004/02/06 09:28:31 jhunter Exp$

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$Id: ContentList.java,v 1.39 2004/02/28 03:30:27 jhunter Exp $

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$Id: OrFilter.java,v 1.4 2004/02/06 09:28:31 jhunter Exp$

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/*

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/filter/OrFilter.java
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/ *--

$Id: DocType.java,v 1.31 2004/02/27 11:32:57 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom xpath/JaxenXPath.java
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$Id: IllegalTargetException.java,v 1.14 2004/02/06 09:28:30 jhunter Exp $

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* /opt/cola/permits/100099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/IllegalTargetException.java
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$Id: JAXPParserFactory.java,v 1.5 2004/02/27 21:08:47 jhunter Exp $

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/*

Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/JAXPParserFactory.java
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$Id: Filter.java,v 1.9 2004/02/06 09:28:31 jhunter Exp $

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/filter/Filter.java

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$Id: Attribute.java,v 1.52 2004/03/01 23:58:28 jhunter Exp $

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Attribute.java
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$Id: XSLTransformer.java,v 1.2 2004/02/06 09:28:32 jhunter Exp $

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$Id: NamespaceStack.java,v 1.13 2004/02/06 09:28:32 jhunter Exp$

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$Id: JDOMFactory.java,v 1.8 2004/09/01 05:25:38 jhunter Exp $

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File: IllegalNameException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp $

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$Id: AttributeList.java,v 1.23 2004/02/28 03:30:27 jhunter Exp $

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$Id: ContentFilter.java,v 1.14 2004/08/31 04:56:07 jhunter Exp $

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 * /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/filter/ContentFilter.java
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 $Id: Element.java,v 1.152 2004/09/03 06:35:39 jhunter Exp$

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$Id: FilterIterator.java,v 1.5 2004/08/31 19:36:12 jhunter Exp $

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* /opt/cola/permits/100099892_1646171453.54/0/jdom-1-0-sources.jar/jdom/FilterIterator.java
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$Id: XML4JDOMAdapter.java,v 1.17 2004/02/06 09:28:31 jhunter Exp $

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$Id: OracleV1DOMAdapter.java,v 1.19 2004/02/06 09:28:31 jhunter Exp $

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$Id: DataConversionException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp $

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$Id: EntityRef.java,v 1.21 2004/02/27 11:32:57 jhunter Exp $

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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* /opt/cola/permits/110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/convert/TransformCall.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/util/proxy/DefinePackageHelper.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/NotFoundException.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationsWriter.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/.CtConstructor.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/runtime/Cflow.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/expr/Handler.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/bytecode/CodeIterator.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/bytecode/ExceptionTable.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/convert/TransformFieldAccess.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/CtNewConstructor.java
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* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/compiler/CodeGen.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1110677168_1606844040.23/0/javassist-3-23-1-ga-sources-1-jar/javassist/bytecode/AccessFlag.java
1.1963 slf4j 1.6.2

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* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java
* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java

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* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java
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* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/spi/MDCAdapter.java
* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/MDC.java
* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/MarkerFactory.java
* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/spi/LocationAwareLogger.java
* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/helpers/MarkerIgnoringBase.java
* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/helpers/MessageFormatter.java
* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/helpers/BasicMarkerFactory.java
* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/helpers/ILoggerFactory.java
* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
* /opt/cola/permits/1126029914_1615483544.0/slf4j-api-1-6-2-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
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  */opt/cola/permits/1126029914_1615483544.0/0/slf4j-api-1-6-2-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
  */opt/cola/permits/1126029914_1615483544.0/0/slf4j-api-1-6-2-sources-jar/org/slf4j/helpers/BasicMarker.java
  */opt/cola/permits/1126029914_1615483544.0/0/slf4j-api-1-6-2-sources-jar/org/slf4j/Logger.java

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**1.1964 ibus 1.5.17-11.el7**

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  jar/net/jradius/packet/attribute/value/NamedValue.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
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* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/attribute/value/IntegerValue.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/attribute/value/ComboIPAddrValue.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/attribute/value/SignedValue.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/attribute/value/StringValue.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/attribute/value/EncryptedStringValue.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/attribute/value/DateValue.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/attribute/value/OctetsValue.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/attribute/value/IPAddrValue.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/realm/StaticRealms.java
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* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/DHCPFormat.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/DHCPDecline.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/DHCPPacket.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/DHCPRelease.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/DHCPAck.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/DHCPForceRenew.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/DHCPNack.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/DHCPInform.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/DHCPDiscover.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/DHCPOffer.java

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* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-jar/net/jradius/packet/attribute/value/TLVValue.java
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* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/client/TransportStatusListener.java
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* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
  jar/net/jradius/realm/JRadiusRealmManager.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
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  jar/net/jradius/client/auth/EAPMSCHAPv2Authenticator.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
  jar/net/jradius/server/JRadiusRequest.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
  jar/net/jradius/client/auth/EAPMD5Authenticator.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
  jar/net/jradius/packet/DiameterFormat.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
  jar/net/jradius/server/config/Configuration.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
jar/net/radius/client/auth/EAPAuthenticator.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/packet/attribute/SubAttribute.java
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* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/packet/AccountingRequest.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/server/Main.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/server/JRadiusServer.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/packet/Format.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/packet/RadiusRequest.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/packet/CoAResponse.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/packet/attribute/SubAttribute.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/packet/attribute/VSAWithSubAttributes.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/packet/DisconnectRequest.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/packet/attribute/VSAAttribute.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/radius-core-1-1-4-sources-jar/net/radius/packet/RadiusFormat.java
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/**
* Encodes and decodes to and from Base64 notation.
* *
* <p>
* Change Log:
* </p>
* <ul>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).</li>
*/
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the-encoded data was a single byte.</li>
* v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects-when data that's being decoded is gzip-compressed and will decompress it-automatically. Generally things are cleaner. You'll probably have to-change some method calls that you were making to support the new-options format (<tt>int</tt>s that you "OR" together).</li>
* v1.5.1 - Fixed bug when decompressing and decoding to a-byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>.-Added the ability to "suspend" encoding in the Output Stream so-you can turn on and off the encoding if you need to embed base64-data in an otherwise "normal" stream (like an XML file).</li>
* v1.5 - Output stream pases on flush() command but doesn't do anything itself.-This helps when using GZIP streams.-Added the ability to GZip-compress objects before encoding them.</li>
* v1.4 - Added helper methods to read/write files.</li>
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream-where last buffer being read, if not completely full, was not returned.</li>
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* v1.3.3 - Fixed I/O streams which were totally messed up.</li>

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Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>-periodically to check for updates or to contribute improvements.

@author Robert Harder
@author rob@iharder.net
@version 2.1

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jar/net/radius/server/EventDispatcher.java
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* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
  jar/net/radius/packet/attribute/AttributeList.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
  jar/net/radius/packet/attribute/Attr_UnknownAttribute.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
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  jar/net/radius/packet/attribute/AttributeDescription.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
  jar/net/radius/client/auth/MSCHAPv2Authenticator.java
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  jar/net/radius/log/RadiusLogger.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
  jar/net/radius/packet/NullResponse.java
* /opt/cola/permits/1001160444_1654022917.1515422/0/jradius-core-1-1-4-sources-
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* /opt/cola/permits/1001160444__1654022917_1515422/0/jradius-core-1-1-4-sources.jar/net/jradius/util/RadiusRandom.java
* /opt/cola/permits/1001160444__1654022917_1515422/0/jradius-core-1-1-4-sources.jar/net/jradius/exception/StandardViolatedException.java

1.1967 tcpdump 4.9.2 4.el7_7.1
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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All Python releases are Open Source (see http://www.opensource.org for
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pyu2f - Apache License 2.0

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Version 2.1, February 1999

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History
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Before (and including) argparse 1.1, the argparse package was licensed under 
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted 
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from 
Python 2.7.1, so definitely all files are under Python License now.
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Version 2.1, February 1999

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1.1969 jackson-module-parameter-names

2.9.9

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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  jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
  jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
  jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
  jar/org/springframework/web/servlet/view/tiles3/SpringLocaleResolver.java
* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
  jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
  jar/org/springframework/web/servlet/resource/ResourceTransformer.java
* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
  jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
  jar/org/springframework/web/servlet/handler/RequestMatchResult.java
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* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
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* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
  jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java

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 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * [ @link #locateSource detected ] during response rendering. Users can either specify
 * a specific entry in the model via the [ @link #setSourceKey sourceKey ] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See [ @link #getSourceTypes() here]
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [ @link #setOutputProperties output properties]
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */
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 * 
 * <p>Implementations may use this contract for example as part of a solution
 * to provide data integrity, confidentiality, protection against cross-site
 * request forgery (CSRF), and others or for other tasks such as automatically
 * adding a hidden field to all forms and URLs.
 * 
 * <p>View technologies that support this contract can obtain an instance to
 * delegate to via {@link RequestContext#getRequestDataValueProcessor()}.
* @author Rossen Stoyanchev
* @since 3.1
*/

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* /opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources.jar/org/springframework/web/servlet/view/groovy/GroovyMarkupView.java
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*/opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
*/opt/ws_local/PERMITS_SQL/1089320995_1600118617.01/0/spring-webmvc-5-1-4-release-sources-
jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java

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  <li class="none">
    <a href="issue-tracking.html">Issue Tracking</a>
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  <li class="none">
    <a href="http://wiki.apache.org/logging-log4cxx" class="externalLink">Wiki</a>
  </li>
</ul>
<h5>Development</h5>
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</li>

<li class="expanded">
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</li>
<li class="none">
  <a href="building/ant.html">Apache Ant</a>
</li>
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</li>
<li class="none">
  <a href="building/vstudio.html">Microsoft Visual Studio</a>
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1.1980 jackson-databind 2.4.5

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  jar/io/netty/handler/traffic/TrafficCounter.java
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* /opt/cola/permits/110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
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* /opt/cola/permits/110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java
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* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
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* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslTls13X509ExtendedTrustManager.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
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* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
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* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1.jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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  jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1110676040_1606842976.07/0/netty-handler-4-1-34-final-sources-1-
  jar/io/netty/handler/timeout/IdleStateEvent.java
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  jar/io/netty/handler/timeout/TimeoutException.java
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  jar/io/netty/handler/stream/ChunkedNioStream.java
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  jar/io/netty/handler/stream/ChunkedFile.java
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  jar/io/netty/handler/stream/ChunkedInput.java
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  jar/io/netty/handler/ssl/SslContextBuilder.java
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  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
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  jar/io/netty/handler/ssl/ClientAuth.java
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  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
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* /opt/cola/permits/1110676925_1606843969.75/0/netty-buffer-4-1-34-final-sources-1.jar/io/netty/buffer/PoolSubpage.java
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* /opt/cola/permits/1110676925_1606843969.75/0/netty-buffer-4-1-34-final-sources-1.jar/io/netty/buffer/EmptyByteBuf.java
* /opt/cola/permits/1110676925_1606843969.75/0/netty-buffer-4-1-34-final-sources-1.jar/io/netty/buffer/AbstractDerivedByteBuf.java
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* /opt/cola/permits/1110676925_1606843969.75/0/netty-buffer-4-1-34-final-sources-1.jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
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1.1993 jetty-continuation 9.4.20.v20190813

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.  
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes.  The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.  
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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1.1994 python-urlgrabber 3.10 10.el7

1.1994.1 Available under license:

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* /opt/cola/permits/1110677113_1654022978.4516568/0/wildfly-clustering-common-14-0-1-final-sources-1-
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* /opt/cola/permits/1110677113_1654022978.4516568/0/wildfly-clustering-common-14-0-1-final-sources-1-
  jar/org/jboss/as/clustering/controller/SimpleCapabilityNameResolver.java
* /opt/cola/permits/1110677113_1654022978.4516568/0/wildfly-clustering-common-14-0-1-final-sources-1.jar/org/jboss/as/clustering/controller/ModuleServiceConfigurator.java
* /opt/cola/permits/1110677113_1654022978.4516568/0/wildfly-clustering-common-14-0-1-final-sources-1.jar/org/jboss/as/clustering/controller/BinaryCapabilityNameResolver.java
* /opt/cola/permits/1110677113_1654022978.4516568/0/wildfly-clustering-common-14-0-1-final-sources-1.jar/org/jboss/as/clustering/controller/UnaryCapabilityNameResolver.java
* /opt/cola/permits/1110677113_1654022978.4516568/0/wildfly-clustering-common-14-0-1-final-sources-1.jar/org/jboss/as/clustering/controller/RuntimeResourceRegistrationStepHandler.java

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  jar/org/jboss/as/clustering/controller/CapabilityProvider.java
* /opt/cola/permits/1110677113_1654022978.4516568/0/wildfly-clustering-common-14-0-1-final-sources-1-
  jar/org/jboss/as/clustering/controller/ResourceServiceNameFactory.java
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  jar/org/jboss/as/clustering/function/Consumers.java
* /opt/cola/permits/1110677113_1654022978.4516568/0/wildfly-clustering-common-14-0-1-final-sources-1-
  jar/org/jboss/as/clustering/controller/ResourceRegistration.java
1.1997 webswing-app-launcher 2.5-
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1.2003 agroal-narayana 1.1

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* /opt/cola/permits/1003070162_1646171684.04/0/agroal-narayana-1-1-sources-jar/io/agroal/narayana/BaseXAResource.java
* /opt/cola/permits/1003070162_1646171684.04/0/agroal-narayana-1-1-sources-jar/io/agroal/narayana/ConnectableLocalXAResource.java
* /opt/cola/permits/1003070162_1646171684.04/0/agroal-narayana-1-1-sources-jar/io/agroal/narayana/LocalXAResource.java

1.2004 netty-transport-native-epoll

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* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
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* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-jar/io/netty/channel/epoll/EpollEventArray.java
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Set the `{code TCP_MD5SIG}` option on the socket. See `{code linux/tcp.h}` for more details.
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* `/opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-
jar/io/netty/channel/epoll/EpollServerSocketChannel.java`
* `/opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-
jar/io/netty/channel/epoll/EpollSocketChannel.java`
* `/opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java`
* `/opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-
jar/io/netty/channel/epoll/EpollChannelOption.java`
* `/opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1-
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jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1.jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1.jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1.jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1.jar/io/netty/channel/epoll/EpollDatagramChannel.java
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* /opt/cola/permits/1110675500_1606844060.35/0/netty-transport-native-epoll-4-1-24-final-sources-1.jar/io/netty/channel/epoll/LinuxSocket.java
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/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket. See `<a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>`
 * for more details.
 */

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1.2005 cxf-rt-features-logging 3.2.5-jbossorg-1

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1.2007 harfbuzz 1.7.5-2.el7

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* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}

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* reference through WebSphere's proprietary [@code AdminServiceFactory] API,
* available on WebSphere 5.1 and higher.

* <p>Exposes the [@code MBeanServer] for bean references.

* <p>This [@code FactoryBean] is a direct alternative to [@link MBeanServerFactoryBean],
* which uses standard JMX 1.2 API to access the platform's [@link MBeanServer].

* <p>See the javadocs for WebSphere's
* and

* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

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* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
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/**  
* Indicates that a component is only eligible for registration when all  
* [@linkplain #value specified conditions] match.  
*  
* A <em>condition</em> is any state that can be determined programmatically  
* before the bean definition is due to be registered (see [@link Condition] for details).  
*  
* The [@code @Conditional] annotation may be used in any of the following ways:  
* <ul>  
* <li>as a type-level annotation on any class directly or indirectly annotated with  
* [@code @Component], including [@link Configuration @Configuration] classes</li>  
* <li>as a meta-annotation, for the purpose of composing custom stereotype  
* annotations</li>  
* <li>as a method-level annotation on any [@link Bean @Bean] method</li>  
* </ul>  
*  
* If a [@code @Configuration] class is marked with [@code @Conditional],  
* all of the [@code @Bean] methods, [@link Import @Import] annotations, and  
* [@link ComponentScan @ComponentScan] annotations associated with that  
* class will be subject to the conditions.  
*  
* <strong>NOTE</strong>: Inheritance of [@code @Conditional] annotations  
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* [@code @Conditional] itself is not declared as
* [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* [@code @Conditional] must not be declared as [@code @Inherited].
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

Found in path(s):
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/context/annotation/Conditional.java

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jar/org/springframework/jmx/export/assembler/SimpleReflectiveMBeanInfoAssembler.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/validation/validation/BindingResult.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/context/annotation/Scope.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/scripting/config/ScriptBeanDefinitionParser.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/ui/context/support/DelegatingThemeSource.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/scripting/ScriptCompilationException.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/expression/MethodBasedEvaluationContext.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/MessageSourceAware.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/support/ContextTypeMatchClassLoader.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/remoting/support/SimpleHttpServerFactoryBean.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/cache/annotation/CachingConfigurationSelector.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/Lifecycle.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/cache/annotation/AbstractCachingConfiguration.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/format/datetime/joda/JodaTimeContextHolder.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jndi/JndiObjectFactoryBean.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/support/DefaultLifecycleProcessor.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/annotation/AdviceModeImportSelector.java

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* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/cache/interceptor/CacheableOperation.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/scheduling/config/TaskManagementConfigUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/cache/interceptor/ProxyAsyncConfiguration.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/cache/interceptor/EnableAsync.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/format/FormatterRegistry.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/validation/Validator.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/remoting/support/RemoteInvocationResult.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/annotation/ComponentScanAnnotationParser.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/event/DefaultEventListenerFactory.java
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* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jndi/JndiCallback.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/cache/interceptor/CacheOperationExpressionEvaluator.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/annotation/EnableCaching.java
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* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/springframework/context/annotation/AdviceMode.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/springframework/context/annotation/DependsOn.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/springframework/context/i18n/LocaleContextHolder.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/springframework/ejb/access/SimpleRemoteStatelessSessionProxyFactoryBean.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/springframework/context/support/StaticApplicationContext.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/springframework/remoting/support/RemotingSupport.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/springframework/remoting/rmi/RmiRegistryFactoryBean.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/springframework/validation/ObjectError.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/springframework/validation/FieldError.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/springframework/validation/Errors.java
*/
jar/org/springframework/context/annotation/ConfigurationClassUtils.java
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  jar/org/springframework/context/annotation/AnnotationCacheOperationSource.java
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  jar/org/springframework/context/event/EventExpressionEvaluator.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
  jar/org/springframework/context/annotation/ClassPathBeanDefinitionScanner.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
  jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
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  jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
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  jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
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  jar/org/springframework/context/ApplicationEvent.java
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  jar/org/springframework/cache/CacheManager.java
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  jar/org/springframework/format/datetime/standard/InstantFormatter.java
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  jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
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  jar/org/springframework/scheduling/support/TaskUtils.java
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  jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java

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  jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
  jar/org/springframework/context/annotation/FilterType.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
  jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
  jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
  jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
  jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
  jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
  jar/org/springframework/context/i18n/LocaleContext.java
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jar/org/springframework/context/annotation/Description.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/format/datetime/joda/LocalDateParser.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
jar/org/springframework/format/datetime/joda/DateTimeParser.java
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* limitations under the License.
*/
Abstract the invocation of a cache operation.

<p>Does not provide a way to transmit checked exceptions but provide a special exception that should be used to wrap any exception that was thrown by the underlying invocation. Callers are expected to handle this issue type specifically.</p>

@author Stephane Nicoll
@since 4.1

Found in path(s):
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/opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jndi/JndiLocatorDelegate.java
/opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
/opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/scheduling/annotation/Schedules.java
/opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/format/Parser.java
/opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/...
jar/org/springframework/scripting/bsh/BshScriptFactory.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/cache/annotation/Cacheable.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/cache/annotation/CacheEvict.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/cache/interceptor/KeyGenerator.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/remoting/support/RemoteInvocationUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/cache/support/CompositeCacheManager.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/scheduling/config/ScheduledTasksBeanDefinitionParser.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/jndi/JndiPropertySource.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/cache/annotation/CachePut.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/jar/org/springframework/scripting/support/StandardScriptUtils.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources.jar/
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*/
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/validation/BindingResultUtils.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/jmx/access/InvocationFailureException.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/context/event/ContextStartedEvent.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/context/HierarchicalMessageSource.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/remoting/rmi/RmiBasedExporter.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/context/event/ContextClosedEvent.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/validation/validation/LocaleContextMessageInterpolator.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/validation/validation/MessageCodesResolver.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/context/context/event/ApplicationContextEvent.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/ejb/access/EjbAccessException.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/context/context/config/ContextNamespaceHandler.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/validation/validation/BindingErrorProcessor.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/jmx/access/InvalidInvocationException.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
* /opt/cola/permits/1104729291_1604648915.12/spring-context-5-2-10-release-sources.jar/org/springframework/jmx/export/naming/SelfNaming.java
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* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/scripting/ScriptEvaluator.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/scripting/config/LangNamespaceHandler.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/event/EventListenerFactory.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/annotation/ImportResource.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/export/annotation/CacheConfig.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/export/annotation/ComponentScans.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/context/annotation/Role.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/export/annotation/ComponentConfig.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/export/annotation/ManagedNotification.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/export/annotation/ManagedMetric.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-jar/org/springframework/jmx/export/annotation/ManagedResource.java
* /opt/cola/permits/1104729291_1604648915.12/0/spring-context-5-2-10-release-sources-
1.2015 resteasy-multipart-provider 3.6.1.Final

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   `##*-makefile-*-
   ## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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   ## Commands to generate dependency files
   GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
   GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

   ## Flags for position independent code
   SHAREDLIBCFLAGS = -fPIC
   SHAREDLIBCXXFLAGS = -fPIC
   SHAREDLIBCPPFLAGS = -DPIC

   ## Additional flags when building libraries and with threads
   THREADSCPPFLAGS = -D_REENTRANT
   LIBCPPFLAGS =

   ## Compiler switch to embed a runtime search path
   LD_RPATH=
   LD_RPATH_PRE=-Wl,-rpath,

   ## Compiler switch to embed a library name
   LD_SONAME = -Wl,-soname -Wl,${notdir $(MIDDLE_SO_TARGET))`
## Shared library options

LD_SOOPTIONS= -Wl,-Bs symbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed \"s/\(^*\)\.(o|\( :\)/\1.o $@ : /g\" > $@;\ \n[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed \"s/\(^*\)\.(o|\( :\)/\1.o $@ : /g\" > $@;\ \n[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO),$.$(SO_TARGET_VERSION_MAJOR): %.$(SO),$.$(SO_TARGET_VERSION)
$(RM) $@ & & ln -s $<F $@

%.$(SO): %.$(SO),$.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ & & ln -s $<F $.$(SO),$.$(SO_TARGET_VERSION) $@

## Bind internal references

LDflags that pkgdata will use

BIR_LDFLAGS= -Wl,-Bs symbolic

## Dependencies [i.e. map files] for the final library

BIR_DEPS=
## Remove shared library 's'

STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.2017 jwalterweatherman 1.1.0

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1.2018 opentracing-concurrent 0.1.0

1.2018.1 Available under license :

No license file was found, but licenses were detected in source scan.

<url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>

Found in path(s):
* /opt/cola/permits/1003070120_1646171678.0/0/opentracing-concurrent-0.1-0-sources-jar/META-INF/maven/io.opentracing.contrib/opentracing-concurrent/pom.xml
1.2019 mesa 18.3.4-6.el7_7

1.2019.1 Available under license:
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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> >
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> >
> > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default quality”. Is this in compliance with your exception?

Thanks again,

~tom

==

Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
  *
  * "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  * Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
* Only for use in the Mesa project, this point 2 is filled by naming the technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.2020 opensaml-java 3.3.0
1.2020.1 Available under license:

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1.2021 httpcomponents-core 4.4.5

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* /opt/cola/permits/1106204296_1607111063.18/0/jung-jung-io-1-tar-gz/jung-
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1.2034 gnome-shell 3.28.3-24.el7

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1.2045 firewalld 0.6.3-8.el7_8.1

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*/
/****
* Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
* not use this constructor</i>. Instead, they must use the
* [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
* version.
*
* [@param typeRef
* a reference to the annotated type. See [@link TypeReference].
*
* [@param typePath
* the path to the annotated type argument, wildcard bound, array
* element type, or static inner type within 'typeRef'. May be
* <tt>null</tt> if the annotation targets 'typeRef' as a whole.
* [@param start
* the first instructions corresponding to the continuous ranges
  * that make the scope of this local variable (inclusive).
* @param start
  * the last instructions corresponding to the continuous ranges
  * that make the scope of this local variable (exclusive). This
  * array must have the same size as the 'start' array.
* @param index
  * the local variable's index in each range. This array must have
  * the same size as the 'start' array.
* @param desc
  * the class descriptor of the annotation class.
*/

Found in path(s):
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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 */
/**
* Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
*
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
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*/
/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 * the owner's class name.
 *
 * @param access
 * the method's access flags (see [@link Opcodes]).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see [@link Type Type]).
 *
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/analysis/SourceInterpreter.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/Tree/VarInsnNode.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/commons/StaticInitMerger.java
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* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/ClassOptimizer.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5-0-1-sources-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
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* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5.0.1-sources-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5.0.1-sources-jar/org/objectweb/asm/tree/ParameterNode.java
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* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5.0.1-sources-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5.0.1-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1001477377_1646171649.71/0/asm-commons-5.0.1-sources-jar/org/objectweb/asm/ByteVector.java
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*/
/**
* Constructs a new [@link ClassNode]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [@link #ClassNode(int)]
* version.
*
* @throws IllegalStateException
* If a subclass calls this constructor.
 */

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 */

/**
 * Constructs a new [Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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  jar/org/objectweb/asm/tree/package.html
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  jar/org/objectweb/asm/package.html
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*/
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [{@link JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}]
 * version.
 *
 * @param mv
 *            the <code>MethodVisitor</code> to send the resulting inlined
 *            method code to (use <code>null</code> for none).
 * @param access
 *            the method's access flags (see {@link Opcodes}). This
 *            parameter also indicates if the method is synthetic and/or
 *            deprecated.
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see {@link Type}).
 * @param signature
 *            the method's signature. May be <tt>null</tt>.
 * @param exceptions
 *            the internal names of the method's exception classes (see
 *            {@link Type#getName()}). May be
 *            <tt>null</tt>.
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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jar/org/jboss/wsf/stack/cxf/security/authentication/callback/UsernameTokenCallback.java

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 * /opt/cola/permits/1110675142_1654023006.88265630/wildfly-jsf-14-0-1-final-sources-1-jar/org/jboss/as/jsf/logging/JSFLogger.java

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jar/org/apache/taglibs/standard/tag/common/sql/UpdateTagSupport.java
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*/
*/
* @(#)MimeTypeParseException.java 1.6 05/11/16
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* @(#)DataHandler.java 1.39 05/11/16
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/*
* @(#)UnsupportedDataTypeException.java	1.9 05/11/16
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* @(#)FileTypeMap.java 1.8 05/11/16
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* @(#)MimeType.java 1.19 05/11/16
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*/

@(#)MailcapFile.java.23 05/11/16
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* @(#)MailcapTokenizer.java1.6 05/11/16
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@(#)package.html1.1 05/11/16

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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*/opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
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  jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java
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* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/support/ResourceHolderSupport.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/support/ResourceTransactionDefinition.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/transaction/support/DaoSupport.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/jca/ccci/object/MappingCommAreaOperation.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/transaction/interceptor/MethodMapTransactionAttributeSource.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/jca/ccci/object/MappingRecordOperation.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/transaction/interceptor/RuleBasedTransactionAttribute.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/jca/ccci/core/CciTemplate.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/support/SimpleTransactionStatus.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/jta/SpringJtaSynchronizationAdapter.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/transaction/transaction/interceptor/RollbackRuleAttribute.java
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* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
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jar/org/springframework/transaction/interceptor/TransactionalProxy.java
* /opt/ws_local/PERMITS_SQL/1086188480_1599205460.0/0/spring-tx-5-1-4-release-sources-
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Reviews the <code>Object</code> returned from a secure object invocation, being able to modify the <code>Object</code> or throw an [link to AccessDeniedException].

Typically used to ensure the principal is permitted to access the domain object instance returned by a service layer bean. Can also be used to mutate the domain object instance so the principal is only able to access authorised bean properties or <code>Collection</code> elements.

Special consideration should be given to using an <code>AfterInvocationManager</code> on bean methods that modify a database. Typically an <code>AfterInvocationManager</code> is used with read-only methods, such as <code>public DomainObject getById(id)</code>. If used with methods that modify a database, a transaction manager should be used to ensure any <code>AccessDeniedException</code> will cause a rollback of the changes made by the transaction.

@<author>Ben Alex</author>

@<param>authentication</param> represents the user in question. Should not be null.
@<param>targetDomainObject</param> the domain object for which permissions should be checked. May be null in which case implementations should return false, as the null condition can be checked explicitly in the expression.
@<param>permission</param> a representation of the permission object as supplied by the expression system. Not null.
@<return>true</return> if the permission is granted, false otherwise

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* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2-Jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2-Jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java
* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2-Jar/org/springframework/security/crypto/keygen/KeyGenerators.java
* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2-Jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2-Jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2-Jar/org/springframework/security/crypto/encrypt/CipherUtils.java
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* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2-Jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
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* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2-Jar/org/springframework/security/crypto/encrypt/Encryptor.java
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/** *
 * Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
 * See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
 * For internal use only.
 *
 * @author Luke Taylor
 * @since 3.0
 */

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java
jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java
* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2.jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java
* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2.jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2.jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java

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* /opt/cola/permits/1074377970_1607116228.7/0/spring-security-core-3-1-4-release-sources-2.jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java

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/**
 * A token issued by {@link TokenService}.
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and secured that
 * they can serve as identifying a unique user session. Implementations of {@link TokenService}
 * are free to use encryption or encoding strategies of their choice. It is strongly recommended that
 * keys are of sufficient length to balance safety against persistence cost. In relation to persistence
 * cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.
 * </p>
 *
 * @author Ben Alex
 * @since 2.0.1
 */

Found in path(s):
* /opt/cola/permits/1074377970_1607116228.70/spring-security-core-3.1.4-release-sources-2-
jar/org/springframework/security/core/token/Token.java

1.2061 grubby 8.28 26.el7
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 * SAAJ Issue 46 :https://saaj.dev.java.net/issues/show_bug.cgi?id=46
 * Xerces does not provide a way to reset the SymbolTable
 * So we are trying to reset it using the proprietary code below.
 * Temporary Until the bug : https://jaxp.dev.java.net/issues/show_bug.cgi?id=59
 * is fixed.
 * @param parser the parser from the pool whose Symbol Table needs to be reset.
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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/PendingWriteQueue.java

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* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
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  jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/group/ChannelGroup.java
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  jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
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  jar/io/netty/channel/AddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/DefaultAddressedEnvelope.java
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  jar/io/netty/channel/ChannelProgressiveFutureListener.java
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  jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/group/ChannelGroupException.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
  jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/ws_local/PERMITS_SQL/1018846573_1591376884.4/0/netty-transport-4-1-32-final-sources-
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 */

* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline }.  
 *
* <h3>Sub-types</h3>
* <p>
* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li> { @link ChannelInboundHandler } to handle inbound I/O events, and</li>
* <li> { @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
* </ul>
Alternatively, the following adapter classes are provided for your convenience:

- \{@link ChannelInboundHandlerAdapter\} to handle inbound I/O events,
- \{@link ChannelOutboundHandlerAdapter\} to handle outbound I/O operations, and
- \{@link ChannelDuplexHandler\} to handle both inbound and outbound events.

For more information, please refer to the documentation of each subtype.

The context object

A \{@link ChannelHandler\} is provided with a \{@link ChannelHandlerContext\} object. A \{@link ChannelHandler\} is supposed to interact with the \{@link ChannelPipeline\} it belongs to via a context object. Using the context object, the \{@link ChannelHandler\} can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using \{@link AttributeKey\})s which is specific to the handler.

State management

A \{@link ChannelHandler\} often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```
public interface Message {
    // your methods here
}
```

public class DataServerHandler extends \{@link SimpleChannelInboundHandler\<Message>\} {

    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {
    {@code @Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

<h4>Using {@link AttributeKey}s</h4>

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances. In such a case, you can use {@link AttributeKey}s which is provided by

```java
public interface Message {
    // your methods here
}
```

```java
public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
    private final {@link AttributeKey}<{@link Boolean}> auth = {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};

    {@code @Override}
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        {@link Attribute}<{@link Boolean}> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if ({@link Boolean.TRUE}.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```
Now that the state of the handler is attached to the \{ @link ChannelHandlerContext \}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends @link ChannelInitializer\<@link Channel\> {

  private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();

  @Override
  public void initChannel(@link Channel\ channel) {
    channel.pipeline().addLast("handler", <b>SHARED</b>);
  }
}
```

### The \{ @code @Sharable \} annotation

In the example above which used an \{ @link AttributeKey \}, you might have noticed the \{ @code @Sharable \} annotation.

If a \{ @link ChannelHandler \} is annotated with the \{ @code @Sharable \} annotation, it means you can create an instance of the handler just once and add it to one or more \{ @link ChannelPipeline \}s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like [the JCIP annotations](http://www.javaconcurrencyinpractice.com/annotations/doc/).

### Additional resources worth reading

Please refer to the \{ @link ChannelHandler \}, and \{ @link ChannelPipeline \} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

---

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1.2075 weld-probe-core 3.0.5.Final

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* /opt/cola/permits/1091709791_1654023023.7865355/0/wildfly-embedded-6-0-2-final-sources-
jar/org/wildfly/core/embedded/EmbeddedServerFactory.java
* /opt/cola/permits/1091709791_1654023023.7865355/0/wildfly-embedded-6-0-2-final-sources-
jar/org/wildfly/core/embedded/EmbeddedStandaloneServerFactory.java
* /opt/cola/permits/1091709791_1654023023.7865355/0/wildfly-embedded-6-0-2-final-sources-
jar/org/wildfly/core/embedded/StandaloneServer.java
* /opt/cola/permits/1091709791_1654023023.7865355/0/wildfly-embedded-6-0-2-final-sources-
jar/org/wildfly/core/embedded/ServerStartException.java
* /opt/cola/permits/1091709791_1654023023.7865355/0/wildfly-embedded-6-0-2-final-sources-
jar/org/wildfly/core/embedded/EmbeddedHostControllerFactory.java

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* /opt/cola/permits/1091709791_1654023023.7865355/0/wildfly-embedded-6-0-2-final-sources-jar/org/wildfly/core/embedded/EmbeddedServerReference.java

1.2083 wildfly-system-jmx 14.0.1.Final
1.2083.1 Available under license :
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  jar/org/jboss/system/ServiceMBean.java
* /opt/cola/permits/1110675229_1654023057.711578/0/wildfly-system-jmx-14-0-1-final-sources-1-
  jar/org/jboss/system/Service.java
* /opt/cola/permits/1110675229_1654023057.711578/0/wildfly-system-jmx-14-0-1-final-sources-1-
  jar/org/jboss/system/ServiceMBeanSupport.java

1.2084 spring-web 5.1.4.RELEASE
1.2084.1 Available under license :
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# A type that has no unique extension can be ignored -- they are listed
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# MIME type (lowercased)Extensions
# ==================================================
# application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/lxf
application/mac-binhex40hqx
application/mac-compactpropt
# application/macwriteii
application/mads+xmlmads
application/marcxml+xmlmrc
application/mathematica xmlmnb mb
application/mathml+xmlmlmathml
# application/mathml-content+xml
# application/mathml-presentation+xml
# application/mbms-associated-procedure-description+xml
# application/mbms-deregister+xml
# application/mbms-envelope+xml
# application/mbms-msk+xml
# application/mbms-ns-k-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mboxmbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xmlmscml
# application/merge-patch+json
application/metalink+xmlxmlmetalink
application/metalink4+xmlxmlmeta4
application/mets+xmlxmlmets
# application/mf4
# application/mikey
application/mods+xmlxmlmods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21mp21
application/mp4mp4s
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword/doc dot
application/mxfmxf
# application/prs.plucker
# application/prs.rdf-xml-crypt
# application/prs.xsf+xml
application/pskc+xml
# application/qsig
# application/raptorfec
# application/rdap+json
application/rdf+xml
application/reginfo+xml
application/rdf+xml
# application/reputon+json
application/resource-lists+xml
application/resource-lists-diff+xml
# application/rfc+xml
# application/riscos
# application/rmi+xml
application/rls-services+xml
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application/rpki-manifest+xml
application/rpki-roa+xml
# application/rpki-updown
application/rsd+xml
application/rss+xml
application/rff
# application/rtptt
# application/rtx
# application/samlassertion+xml
# application/samlmetadata+xml
application/sbml+xml
# application/scaip+xml
# application/scim+json
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application/scvp-cv-response+xml
application/scvp-vp-request+xml
application/scvp-vp-response+xml
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# application/sep+xml
# application/sep-exi
# application/session-info
# application/set-payment
application/set-payment-initiation+xml
# application/set-registration
application/set-registration-initiation+xml
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# application/sgml-open-catalog
application/shf+xml
# application/sieve
# application/simple-filter+xml
# application/simple-message-summary
# application/simplesymbolcontainer
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application/smils
# application/smpte336m
# application/soap+fastinfoset
# application/soap+xml
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application/ssml+xml
# application/tamp-apex-update
# application/tamp-apex-update-confirm
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# application/tamp-status-query
# application/tamp-status-response
# application/tamp-update
# application/tamp-update-confirm
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# application/timestamp-query
# application/timestamp-reply
application/timestamped-data
# application/ttml+xml
# application/tve-trigger
# application/ulpfec
# application/urc-grpsheet+xml
# application/urc-ressheet+xml
# application/urc-targetdesc+xml
# application/urc-uisocketdesc+xml
# application/vnd.3gpp-prose+xml
# application/vnd.3gpp-prose-pc3ch+xml
# application/vnd.3gpp-access-transfer-events+xml
application/vnd.ctc-posmlpml
# application/vnd.ctct.ws+xml
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# application/vnd.cups-postscript
application/vnd.cups-ppdppd
# application/vnd.cups-raster
# application/vnd.cups-raw
# application/vnd.curl
application/vnd.curl.car
application/vnd.curl.pcurl
# application/vnd.cyan.dean.root+xml
# application/vnd.cybank
application/vnd.dartdart
application/vnd.data-vision.rdzrdz
# application/vnd.debian.binary-package
application/vnd.dece.datauvf uvfv uvd uvd v
application/vnd.dece.html+xmluvvt uvvt
application/vnd.dece.unspecified uvxx
application/vnd.dece.zipuvuvz uvvz
application/vnd.denovo.fcselement-linkfe_launch
# application/vnd.desmume.movie
# application/vnd.dir-bi.plate-dl-nosuffix
# application/vnd.dm.delegation+xml
application/vnd.dna
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# application/vnd.dvb.dvbj
# application/vnd.dvb.esgcontainer
# application/vnd.dvb.ipdcdftnotifaccess
# application/vnd.dvb.ipdcesgaccess
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# application/vnd.dvb.iptv.alfec-enhancement
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# application/vnd.ntt-local.sip-ta_remote
# application/vnd.ntt-local.sip-ta_tcp_stream
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document.graphics-template	onf
document.image	it
document.image-template	ti
document.presentation
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document.presentation-template	onp
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# application/vnd.synchronml.dm.ddf+wbxml
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# audio/3gpp2
# audio/ac3
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# audio/atrac-advanced-lossless
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# audio/atrac3
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# audio/l24
# audio/l8
# audio/lpc
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# audio/mp4a-latm
# audio/mpa
# audio/mpa-robust
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# audio/mpeg4-generic
# audio/musepack
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# audio/opus
# audio/parityfec
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# audio/pcm-wb
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# audio/smv-qcp
# audio/smv0
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# audio/t140c
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# multipart/appledouble
# multipart/byteranges
# multipart/digest
# multipart/encrypted
# multipart/example
# multipart/form-data
# multipart/header-set
# multipart/mixed
# multipart/parallel
# multipart/related
# multipart/report
# multipart/signed
# multipart/voice-message
# multipart/x-mixed-replace
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# text/fwdred
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# text/rfc822-headers
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text/x-setext etx
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text/x-uuencode uu
# text/xml
# text/xml-external-parsed-entity
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# video/3gpp-tp
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# video/bmpeg
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# video/mp1s
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# video/rtx
# video/smpet292m
# video/ulpfec
# video/vcl
# video/vnd.cctv
video/vnd.dece.hdvh uvvh
video/vnd.dece.mobileuvvm uvvm
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# video/vnd.sealed.mpeg4
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* /opt/cola/permits/1110675632_1606843677.44/0/spring-web-5-1-4-release-sources-1-jar/org/springframework/http/server/ServerHttpResponse.java

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jar/org/springframework/http/converter/json/AbstractJackson2HttpMessageConverter.java
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* /opt/cola/permits/1110675632_1606843677.44/0/spring-web-5-1-4-release-sources-1-jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /opt/cola/permits/1110675632_1606843677.44/0/spring-web-5-1-4-release-sources-1-jar/org/springframework/web/bind/ServletRequestBindingException.java
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* /opt/cola/permits/1110675632_1606843677.44/0/spring-web-5-1-4-release-sources-1.jar/org/springframework/web/method/annotation/MethodArgumentConversionNotSupportedException.java
* /opt/cola/permits/1110675632_1606843677.44/0/spring-web-5-1-4-release-sources-1.jar/org/springframework/web/util/PathPatternParser.java
* /opt/cola/permits/1110675632_1606843677.44/0/spring-web-5-1-4-release-sources-1.jar/org/springframework/web/server/ServerWebInputException.java
* /opt/cola/permits/1110675632_1606843677.44/0/spring-web-5-1-4-release-sources-1.jar/org/springframework/web/context/support/ServletContextAwareProcessor.java
* /opt/cola/permits/1110675632_1606843677.44/0/spring-web-5-1-4-release-sources-1.jar/org/springframework/web/context/request/NativeWebRequest.java
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**
* Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
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* method does not automatically create a session. See {@link WebSession}
* for more details.
* /

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* jar/org/springframework/web/server/ServerWebExchange.java

1.2085 jax-rs-provider 1.9.13

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 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservablewindowTimed.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/flowable/FlowableDoOnEach.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/flowable/FlowableZip.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/flowable/FlowableDoOnEach.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/flowable/FlowableZip.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/flowable/FlowableZip.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/flowable/FlowableZip.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/flowable/FlowableZip.java
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 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableDoOnEach.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableFlatMap.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableReduceMaybe.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableWindowTimed.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableList.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableToList.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableTakeUntil.java
 * /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableWindowTimed.java
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jar/io/reactivex/internal/operators/observable/ObservableTimeout.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/completable/CompletableToFlowable.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/maybe/MaybeConcatIterable.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableFromCallable.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/flowable/FlowableAnySingle.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/flowable/BlockingFlowableMostRecent.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableFromCallable.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/completable/CompletableUsing.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/SingleEmitter.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/disposables/CompositeDisposable.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/disposables/ArrayCompositeDisposable.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/completable/CompletableUsing.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/BlockingObservableNext.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/single/SingleDelayWithPublisher.java
  */opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/observable/ObservableTimer.java

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* /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/schedulers/ScheduledDirectPeriodicTask.java
* /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/schedulers/ScheduledDirectTask.java
* /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/schedulers/InstantPeriodicTask.java
* /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/schedulers/SchedulerWhen.java
* /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/schedulers/AbstractDirectTask.java
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 */

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* /opt/cola/permits/1003069732_1646171686.67/0/rxjava-2-1-16-sources-jar/io/reactivex/internal/operators/flowable/FlowableOnBackpressureError.java

**1.2088 giflib 4.1.6 9.el7**

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* /opt/cola/permits/1004479395_1646171703.62/0/jnr-constants-0-9-12-sources-jar/com/kenai/constantine/Constant.java
* /opt/cola/permits/1004479395_1646171703.62/0/jnr-constants-0-9-12-sources-jar/com/kenai/constantine/ConstantSet.java
* /opt/cola/permits/1004479395_1646171703.62/0/jnr-constants-0-9-12-sources-jar/com/kenai/constantine/platform/ConstantSet.java
* /opt/cola/permits/1004479395_1646171703.62/0/jnr-constants-0-9-12-sources-jar/jnr/constants/Platform.java
* /opt/cola/permits/1004479395_1646171703.62/0/jnr-constants-0-9-12-sources-jar/com/kenai/constantine/platform/ConstantResolver.java

1.2093 hibernate-validator 6.0.18.Final
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/valueextraction/OptionalLongValueExtractor.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/constraints/Currency.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/constraints/ModCheck.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/xml/mapping/MappingXmlParser.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/valueextraction/OptionalDoubleValueExtractor.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/privilegedactions/package-info.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/valueextraction/IterableValueExtractor.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/xml/mapping/ContainerElementTypeConfigurationBuilder.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/DecimalMinValidatorForBigInteger.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/metadata/aggregated/rule/ReturnValueMayOnlyBeMarkedOnceAsCascadedPerHierarchyLine.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/cfg/defs/DecimalMinDef.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/logging/formatter/ObjectArrayFormatter.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/HibernateValidatorConfiguration.java
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/cfg/defs/URLDef.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6-0-18-final-sources-5.jar/org/hibernate/validator/internal/engine/constraintvalidation/ComposingConstraintTree.java
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* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6.0.18-final-sources-5-jar/META-INF/validation-configuration-1.1.xsd
* /opt/cola/permits/1110675265_1606843042.99/0/hibernate-validator-6.0.18-final-sources-5-jar/META-
INF/validation-configuration-2.0.xsd
* /opt/cola/permits/1110675265_1606843042.99/0.hibernate-validator-6-0-18-final-sources-5-jar/org/hibernate/validator/overview.html
* /opt/cola/permits/1110675265_1606843042.99/0.hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-1.1.xsd
* /opt/cola/permits/1110675265_1606843042.99/0.hibernate-validator-6-0-18-final-sources-5-jar/META-INF/validation-mapping-1.0.xsd

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/
/**
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 * </p>
 *
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * @link javax.validation.ParameterNameProvider@link>. By default, [@code arg0], [@code arg1] etc.
 * will be used as parameter names.
 * </p>
 *
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 * </p>
 * <pre>
 * [ @code @ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
 * public void createEvent(Date start, Date end) { ... }
 * ]
 * </pre>
 *
 * Can be specified on any method or constructor.
 * </p>
 *
 * @author Gunnar Morling
 */

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*/
/**
* Retrieves constraint related meta data for the parameters of the given executable.
* 
* @param executable The executable of interest.
* 
* @return A list with parameter meta data for the given executable.
*/

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1.2094 spring-plugin-core 1.2.0.RELEASE
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jar/org/springframework/plugin/core/config/PluginRegistriesBeanDefinitionRegistrar.java
* /opt/ cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
jar/org/springframework/plugin/core/PluginRegistrySupport.java
* /opt/ cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
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  jar/org/springframework/plugin/core/OrderAwarePluginRegistry.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
  jar/org/springframework/plugin/core/config/PluginListDefinitionParser.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
  jar/org/springframework/plugin/core/config/PluginNamespaceHandler.java
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  jar/org/springframework/plugin/core/PluginRegistry.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
  jar/org/springframework/plugin/core/support/AbstractTypeAwareSupport.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
  jar/org/springframework/plugin/core/support/PluginRegistryFactoryBean.java
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  jar/org/jboss/jca/core/spi/transaction/TransactionTimeoutConfiguration.java
* /opt/cola/permits/1091709752_1654022820.4486043/0/ironjacamar-core-api-1-4-11-final-sources-2-
  jar/org/jboss/jca/core/spi/statistics/StatisticsPlugin.java
* /opt/cola/permits/1091709752_1654022820.4486043/0/ironjacamar-core-api-1-4-11-final-sources-2-
  jar/org/jboss/jca/core/spi/rat/Activation.java
* /opt/cola/permits/1091709752_1654022820.4486043/0/ironjacamar-core-api-1-4-11-final-sources-2-
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 * @return The value
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   jar/org/jboss/jca/core/api/management/ResourceAdapter.java
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   jar/org/jboss/jca/core/api/workmanager/StatisticsExecutor.java
 * /opt/cola/permits/1091709752_1654022820.4486043/0/ironjacamar-core-api-1-4-11-final-sources-2-
   jar/org/jboss/jca/core/api/spi/mdr/MetadataRepository.java
 * /opt/cola/permits/1091709752_1654022820.4486043/0/ironjacamar-core-api-1-4-11-final-sources-2-
   jar/org/jboss/jca/core/api/spi/mdr/AlreadyExistsException.java
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    Storable 2.14
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Storable is distributed as a module, but is also part of the official Perl core distribution, as of perl 5.8. Maintenance is now done by the perl5-porters. We thank Raphael Manfredi for providing us with this very useful module.

The Storable extension brings persistence to your data.

You may recursively store to disk any data structure, no matter how complex and circular it is, provided it contains only SCALAR, ARRAY, HASH (possibly tied) and references (possibly blessed) to those items.

At a later stage, or in another program, you may retrieve data from the stored file and recreate the same hierarchy in memory. If you had blessed references, the retrieved references are blessed into the same package, so you must make sure you have access to the same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and retrieval is performed, and/or what deep cloning should do on those objects.

To compile this extension, run:

perl Makefile.PL [PERL_SRC=...where you put perl sources...]
makemake install

There is an embedded POD manual page in Storable.pm.

Storable was written by Raphael Manfredi <Raphael_Manfredi@pobox.com>
Maintenance is now done by the perl5-porters <perl5-porters@perl.org>

Please e-mail us with problems, bug fixes, comments and complaints, although if you have complements you should send them to Raphael. Please don't e-mail Raphael with problems, as he no longer works on Storable, and your message will be delayed while he forwards it to us.

------------------------------------------------------------------------

Thanks to (in chronological order):

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Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)

for their contributions.

A Japanese translation of this man page is available at the Japanized Perl Resources Project <https://sourceforge.jp/projects/perldocjp/>.

------------------------------------------------------------------------

The perl5-porters would like to thank

Raphael Manfredi <Raphael_Manfredi@pobox.com>

According to the perl5.8 Changes file, the following people have helped bring you this Storable release:

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=head1 NOTES

Test::More is B<explicitly> tested all the way back to perl 5.004.

Test::More is thread-safe for perl 5.8.0 and up.

=head1 BUGS and CAVEATS

=over 4

=item Making your own ok()

If you are trying to extend Test::More, don't. Use Test::Builder
instead.

=item The eq_* family has some caveats.

=item Test::Harness upgrades

no_plan and todo depend on new Test::Harness features and fixes. If
you're going to distribute tests that use no_plan or todo your
end-users will have to upgrade Test::Harness to the latest one on
CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness
will work fine.

If you simply depend on Test::More, it's own dependencies will cause a
Test::Harness upgrade.
=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Unit> describes a very featureful unit testing interface.

L<Test::Inline> shows the idea of embedded testing.

L<SelfTest> is another approach to embedded testing.

=head1 AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, chromatic and the perl-qa gang.
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See \url{http://www.perl.com/perl/misc/Artistic.html}

Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests). This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

- 0 all tests successful
- 255 test died
- any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground its
recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;

use Film; # What you're testing.

my $btaste = Film->new( { Title    => 'Bad Taste',
                        Director => 'Peter Jackson',
                        Rating   => 'R',
                        NumExplodingSheep => 1
                      });

ok( defined($btaste) and ref $btaste eq 'Film',     'new() works' );

ok( $btaste->Title      eq 'Bad Taste',     'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

1..5
ok 1 - new() works
ok 2 - Title() get
ok 3 - Director() get
not ok 4 - Rating() get
  #   Failed test (t/film.t at line 14)
ok 5 - NumExplodingSheep() get
  # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.
0 SS$_NORMAL    all tests successful
4 SS$_ABORT     something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=item L<Test::Harness>
Interprets the output of your test program.

=head1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern
E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

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=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test
number is shared amongst all threads. This means if one thread sets
the test number using current_test() they will all be effected.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More,
Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

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*/

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.012003.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

--------------------------------------------------------------------------------

NAME

ppport.h - Perl/Pollution/Portability version 3.19

SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version
--patch=I<file> write one patch file with changes
--copy=I<suffix> write changed copies with suffix
--diff=I<program> use diff program and options

--compat-version=I<version> provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=I<name> show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help
Display a brief usage summary.

=head2 --version
Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter
Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided
to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define> s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```perl
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```
The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different `diff` program or options, using the `--diff` option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```
perl ppport.h --copy=.new
```

To display portability information for the `newSVpvn` function, use:

```
perl ppport.h --api-info=newSVpvn
```

Since the argument to `--api-info` can be a regular expression, you can use

```
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all `/_nomg/> functions or

```
perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of `ppport.h` is causing failure during the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4
=item 1.
The complete output from running "perl -V"
=item 2.
This file.
=item 3.
The name and version of the module you were trying to build.
=item 4.
A full log of the build that failed.
=item 5.
Any other information that you think could be relevant.
=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO
See L<Devel::PPPort>.
=cut
use strict;
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.19;
my %opt = (
quiet => 0,
diag
=> 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);
my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[ \t]";
# horizontal whitespace
# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();
};
if ($@ and grep /^-/, @ARGV) {
usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.\n";
}
if ($opt{version}) {

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print "This is $0 $VERSION.\n";
exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
    if ($@) {
        die "Invalid version number format: $opt{compat-version}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{compat-version}'\n" if $v >= 1000 || $s >= 1000;
    $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
    $opt{compat-version} = 5;
}

my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|([^|]*)$/ ? ( $1 => {
        ($2 ? ( base  => $2 ) : ()),
        ($3 ? ( todo  => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()).
    ) } : die "invalid spec: $_" } qw(
    AvFILLp|5.004050||p
    AvFILL||
    CLASS|||n
    CPERLscope|5.005000||p
    CX_CURPAD_SAVE|||
    CX_CURPAD_SV|||
    CopFILEAV|5.006000||p
    CopFILEGV_set|5.006000||p
    CopFILEGV|5.006000||p
    CopFILE_set|5.006000||p
    CopFILE|5.006000||p
    CopSTASHPV_set|5.006000||p
    CopSTASHPV|5.006000||p
    CopSTASH_eq|5.006000||p
    CopSTASH_set|5.006000||p
    CopSTASH|5.006000||p
    CopyD|5.009002||p
    Copy|||

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PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PVPRETTY_DUMP|5.009004||p
PERL_PVPRETTY_ELLIPSES|5.010000||p
PERL_PVPRETTY_LTGT|5.009004||p
PERL_PVPRETTY_LTGTSTOP|5.009004||p
PERL_PVPRETTY_QUOTE|5.009004||p
PERL_PVPRETTY_REGPROP|5.009004||p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3|5.006000
PERL_SYS_INIT||
PERL_SYS_TERM|5.011000
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle||pn
PL_DBSingle||pn
PL_DBtrace||pn
PL_Sv|5.005000||p
PL_bufend|5.011000||p
PL_bufptr|5.011000||p
PL_compiling|5.004050||p
PL_copline|5.011000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_error_count|5.011000||p
PL_expect|5.011000||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.011000||p
PL_in_my|5.011000||p
PL_last_in_gv|||n
PL_laststatval|5.005000||p
PL_lex_state|5.011000||p
PL_lex_stuff|5.011000||p
PL_linestr|5.011000||p
PL_modglobal|5.005000||n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_parser|5.009005||p
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rsfp_filters|5.004050||p
PL_rsf|5.004050||p
PL_rs|||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_UNDEF|5.004050||pn
PL_sv_YES|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.011000||p
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POPi|||n
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POPl||n
POPn||n
POPPhytex||5.007001||n
POPPx||5.005030||n
POPp||n
POPs||n
PTR2IV||5.006000||p
PTR2NV||5.006000||p
PTR2UV||5.006000||p
PTR2nat||5.009003||p
PTR2ul||5.007001||p
PTRV||5.006000||p
PUSHMARK||
PUSH_MOBILECALL||5.011000|
PUSHi||
PUSH_mortal||5.009002||p
PUSHn||
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PUSHu||5.004000||p
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PoisonWith|5.009004||p
Poison|5.008000|p
REVAL||n
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
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SAVETMPS||
SAVE_DEFSV|5.004050|p
SPAGAIN||
SP||
START_EXTERN_C|5.005000|p
START_MY_CXT|5.007003|p
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STMT_START|||p
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ST||
SV_CONST_RETURN|5.009003|p
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SV_COW_SHARED_HASH_KEYS|5.009005|p
SV_GMAGIC|5.007002|p
SV_HAS_TRAILING_NUL|5.009004|p
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SV_MUTABLE_RETURN|5.009003|p
SV_NOSTEAL|5.009002|p
SV_SMAGIC|5.009003|p
SV_UTF8_NO_ENCODING|5.008001|p
SVARG|5.009005|p
SVf_UTF8|5.006000|p
SV|5.006000|p
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SVt_NV||
SVt_PVAV||
SVt_PVCV||
SVt_PVHV||
SVt_PVMG||
SVt_PV||
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SvCUR||
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SvSTASH||
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SvSetSV||
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SvUV_set|5.009003||p
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SvVOK|5.008001|
SvVSTRING_mg|5.009004||p
THIS||n
UNDERBAR|5.009002||p
UTF8_MAXBYTES|5.009002||p
UVSIZE|5.006000||p
UVTYPE|5.006000||p
UVXf|5.007001||p
UVof|5.006000||p
UVuf|5.006000||p
UVxf|5.006000||p
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WARN_AMBIGUOUS|5.006000||p
WARN_ASSERTIONS|5.011000||p
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WARN_CLOSED|5.006000||p
WARN_CLOSURE|5.006000||p
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WARN_DIGIT|5.006000||p
WARN_EXEC|5.006000||p
WARN_EXITING|5.006000||p
WARN_GLOB|5.006000||p
WARN_INPLACE|5.006000||p
WARN_INTERNAL|5.006000||p
WARN_IO|5.006000||p
WARN_LAYER|5.008000||p
WARN_MALLOC|5.006000||p
WARN_MISC|5.006000||p
WARN_NEWLINE|5.006000||p
WARN_NUMERIC|5.006000||p
WARN_ONCE|5.006000||p
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WARN_PACK|5.006000||p
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WARN_PORTABLE|5.006000||p
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WARN_PRINTF|5.006000||p
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XSRETURN_IV||
XSRETURN_NO||
XSRETURN_NV
XSRETURN_PV
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XSRETURN_UV
p
XSRETURN_YES
p
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XST_mNO
XST_mNV
XST_mPV
XST_mUNDEF
p
XST_mYES
p
XS_VERSION_BOOTCHECK
XS_VERSION
XSprePUSH
p
XS
ZeroD
Zero
_aMY_CXT
_pMY_CXT
aMY_CXT
aMY_CXT
aTHXR
aTHXR
aTHXR
aTHX
aTHX
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addmad
allocmy
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amagic_cmp_locale
amagic_cmp
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amagic_ncmp
any_dup
ao
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append_list
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call_pv|5.006000|p
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calloc|5.007002|n
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ck_defined
ck_delete
ck_die
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ck_eval
ck_exec
ck_exists
ck_exit
ck_ftst
ck_fun
ck_glob
ck_grep
ck_index
ck_join
ck_fill
ck_listiob
ck_match
ck_method
ck_null
ck_open
ck_readline
ck_repeat
ck_require
ck_return
ck_rfun
ck_rvconst
ck_sassign
ck_select
ck_shift
ck_sort
ck_spair
ck_split
ck_subr
ck_substr
ck_svconst
ck_trunc
ck_unpack
ckwarn_d||5.009003|
ckwarn||5.009003|
cl_and||n
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sys intern init||
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tmps grow[5.006000]
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toUPPER||
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {


next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}

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```perl
$define = [$1, $2] if m{^\s*\#define \s+(\w+)\(.*\) \s+(.*)};

if ($function) {
    if ($^/) {
        if (exists $API{$function->[1]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
}

$function = [$1, "]" if m{^DPPP_\(my_\(\w+\))};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*\#define \s+(\w+)\(.*\) \s+(\w+)};
$replace{$2} = $1 if m{^\s*\#define \s+(\w+)\(.*\) \s+(\w+).*rccs\s+Replace \s+$rcce\s*$};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace \(\w+\) with \(\w+\) \s+$rcce\s*$};

if (m{^\s*$rccs\s+(\w+\s*(\w+\s*))* \s+depends\s+(\w+\s*(\w+\s*))* \s+$rcce\s*$}) {
    my @deps = map { s/\s+/g; S_ } split /,/, $3;
    my $d;
    for $d (map { s/\s+/g; S_ } split /,/, $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need{$1} = 1 if m{^#if \s+defined\(NEED_\(\w+\)\(\?\_GLOBAL\)\)?\}$);}

for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{\'api-info\'}) {
    my $f;
    my $count = 0;
    my $match = $opt{\'api-info\'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{\'api-info\'}\E$";
    for $f (sort { lc $a cmp lc $b } keys %API) { next unless $f =~ /$match/;
        print "\n== $f ==\n";
        my $info = 0;
```
if ($API{$f}{base} || $API{$f}{todo}) {
    my $base = format_version($API{$f}{base} || $API{$f}{todo});
    print "Supported at least starting from perl-$base\n";
    $info++;
}
if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo\n";
    print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
    print "\n\nWaring: Need: $warnings{$f} \n\n" if exists $warnings{$f};
    $info++;
} else {
    print "No portability information available.\n" unless $info;
    $count++;
}
$count or print "Found no API matching 'opt{api-info}'.\n";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '  [' . join(', ', @flags) . ']' : '';
        print "$f$flags\n";
    }
    exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta$_ } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            push @files, $_ unless $seen{$_}++;
        }
    }
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}

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my %file = (orig => $c, changes => 0);

# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{\^\$HS*\$\^\$HS*\$include\b[\^\r\n]*\b(?:\QSppportE[XSUB\.h]\b[\^\r\n]*)\n| \^\$HS*\$\^\$HS*\$\Q$ppport\E\b[\^\r\n]*\n| \^\$HS*\$\^\$HS*\$\Qdefine\E\b[\^\r\n]*\n| \^\$\^\n\*\(?:\[\^\r\n]*\)
| \[\^\n\]*(?\:\[\^\n\]*\)
| /\b(?:\Q$ccs\E\^[\^\r\n]*)\*/\b[\^\r\n]*\n| /\b[^$ccs][^]*\*/\b[\^\r\n]*\n| }{ defined $2 and push @ccom, $2;
  defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^\$\Q$ppport\E\b[\^\r\n]*\n| /\b[^$ccs][^]*\*/\b[\^\r\n]*\n| }{ defined $2 and push @ccom, $2;
  defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

my @deps = rec_depend($func);
if (@deps) {
  $file{uses_deps} {$_} = \@deps;
  for (@deps) {
    $file{uses} {$_} = 0 unless exists $file{uses} {$_};
  }
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;

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my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
  if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
      my $changes = ($c =~ s{\b(Perl_$func\s+\(\s+)(?!aTHX_\?)(\|)[^\s\)]*\)}}{ $1 . ($2 eq ')? 'aTHX': 'aTHX_ ' . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    } else {
      warning("Uses Perl_$func instead of $func");
      $file{changes} += ($c =~ s{\bPerl_$func\s+\(\s+{aTHX_?}\s+\)}}{ $func$1\}g);
    }
  } else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\(\s+{aTHX_?}\s+\)}}{ $func$1\}g);
  }
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s{\b$func\b}/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join( , , @{$file{uses_deps}{$func}}));
    } else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
    format_version($API{$func}{todo}), ",", even with "ppport\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = ";

if (not exists $file{uses}[$func]) {
    $message = "No need to define NEED_$func if $func is never used";
}
elsif (exists $file{needs}[$func] && $file{needs}[$func] ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^\$HS*#\$HS*define\$HS+NEED_$func\b.*\$LF//mg);
}
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$func_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^\$HS*#\$HS*define\$HS+NEED_${func}_GLOBAL\b.*\$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}[$func]) {
            if ($type eq 'global') {
                diag("Files [@ {$global{needs}{$func}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
        $pp .= "#define NEED_$func$suffix\n";
    }
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "";
    $file{changes}++;}

unless ($file{has_inc_ppport}) {
    diag("Needs to include "$ppport"  ");
    $pp = qq(#include "$ppport"
    )
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
    || ($c =~ s/^($HS*#$HS*include.*\Q$ppport\E).*?$LF//m)
    || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
    || ($c =~ s/^/$pp/);
}
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include "$ppport"");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rcs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rcs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : "";
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : "";
my $warn = $warnings ? " ($warnings warning$s)" : "";

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info("Analysis completed\$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}"
    }
    else {
        local *F;
        if (open F, ">$newfile") {
            info("Writing copy of '$filename' with changes to '$newfile'");
            print F $c;
            close F;
        } else {
            error("Cannot open '$newfile' for writing: $!");
        }
    }
    elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(*PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
            mydiff(*STDOUT, $filename, $c);
        } else {
            my $s = $file{changes} == 1 ? '' : 's';
            info("$file{changes} potentially required change$s detected");
        }
    } else {
        info("Looks good");
    }
}
close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq " " }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;  
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
}
my $suf = 'aaa';
my $diff = '';
local *F;
while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";
if (open F, ">$tmp") {
print F $str;
close F;
if (open F, "$prog $file $tmp |") {
while (<F>) {
s/\Q$tmp\E/$file.patched/;
$diff .= $_;
}
close F;
unlink $tmp;
return $diff;
}
unlink $tmp;
}
else {
error("Cannot open '$tmp' for writing: $!");
}
return undef;
}
sub rec_depend
{
my($func, $seen) = @_;
return () unless exists $depends{$func};
$seen = {%{$seen||{}}};
return () if $seen->{$func}++;
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}
sub parse_version
{
my $ver = shift;
if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\.[\d_]+$/) {

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die "cannot parse version \$ver\n";
}

$ver =~ s//_/g;
$ver =~ s/\$/000000/;

my($r,$v,$s) = $ver =~ /\d+).(\d{3}).\d{3}/;               
$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
  if ($s % 10) {
    die "cannot parse version \$ver\n";
  }
}

return ($r, $v, $s);

sub format_version
{
  my $ver = shift;

  $ver =~ s/\$/000000/;
  my($r,$v,$s) = $ver =~ /\d+).(\d{3}).\d{3}/;

  $v = int $v;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "invalid version \$ver\n";
    }
    $s /= 10;
  }

  $ver = sprintf "%d.%03d", $r, $v;
  $s > 0 and $ver .= sprintf "_%02d", $s;

  return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info
{
  $opt{quiet} and return;
}
print @_, "\n";
}
sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

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print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;

sub strip
{
  my $self = do { local(@ARGV,$/)=($0); <>
  my($copy) = $self =~ /=head\d\s+COPYRIGHT\s*\^(.*?)\^=\w+\ms;
  $copy =~ s/\^(?=?\$+)/ /gms;
  $self =~ s/\^\HS+\Do NOT edit.*?(?=^-)/\copy/ms;
  $self =~ s/\^\SKIP.*(?=\^\_\_\DATA___)/\SKIP
  if (@ARGV && \$ARGV[0] eq `--unstrip`) {
    eval { require Devel::PPPort ;
      \$@ and die "Cannot require Devel::PPPort, please install.\n"
    if (eval \$Devel::PPPort::VERSION < \$VERSION) {
      die "$0 was originally generated with Devel::PPPort \$VERSION.\n"
        . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"
        . "Please install a newer version, or --unstrip will not work.\n"
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
  }
  print <<END;
  Sorry, but this is a stripped version of \$0.
  To be able to use its original script and doc functionality,
  please try to regenerate this file using:

  \$^X \$0 --unstrip

END

/ms;
  my($pl, $c) = $self =~ /(.*\^\_\_\DATA___)(.*)/ms;
  $c =~ s{
    / (?: ![^*]*[^$ccs][^*]*[^$ccs]) / [^\^\n]\*" | [^\^\n]\*\?
    | ( [^\^\n]\*\?
      | [^\^\n]\*\?
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      | [^\^\n]\*\?
      | [^\^\n]\*\?: \$_1 \^\" ") gsex;
  $c =~ s/\!s+$/!mg;
  $c =~ s/\!SLF!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!^\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!
; print OUT "$pl$c
; exit 0;
}

__DATA__
*/

---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.68, CPAN::Meta::Converter version 2.112621'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Storable
no_index:
directory:
  - t
  - inc
requires:
  XSLoader: 0
resources:
  bugtracker: http://rt.perl.org/perlbug/
  version: 2.45

---

No license file was found, but licenses were detected in source scan.

Found in path(s):
1.2102 python-configobj 4.7.2-7.el7

1.2102.1 Available under license:

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Validation Schema with validate.py

Using the Validator class

Authors: `Michael Foord`_, `Nicola Larosa`_, `Mark Andrews`_

Version: Validate 1.0.1

Date: 2010/01/09

Homepage: `Validate Homepage`_

Repository: `Google code homepage <http://code.google.com/p/configobj/>`_

PyPI Entry: `Validate on Python Packaging Index <http://pypi.python.org/pypi/validate>`_

License: `BSD License`_

Support: `Mailing List`_

.. _Mailing List: http://lists.sourceforge.net/lists/listinfo/configobj-develop
.. _Michael Foord: fuzzyman@voidspace.org.uk
.. _Nicola Larosa: nico@teknico.net

.. _Validate Homepage: http://www.voidspace.org.uk/python/validate.html
.. _BSD License: http://www.voidspace.org.uk/python/license.shtml

.. contents:: Validate Manual

Introduction

Validation is used to check that supplied values conform to a specification.
The value can be supplied as a string, e.g. from a config file. In this case the check will also *convert* the value to the required type. This allows you to add validation as a transparent layer to access data stored as strings. The validation checks that the data is correct *and* converts it to the expected type.

Checks are also strings, and are easy to write. One generic system can be used to validate information from different sources via a single consistent mechanism.

Checks look like function calls, and map to function calls. They can include parameters and keyword arguments. These arguments are passed to the relevant function by the ``Validator`` instance, along with the value being checked.

The syntax for checks also allows for specifying a default value. This default value can be ``None``, no matter what the type of the check. This can be used to indicate that a value was missing, and so holds no useful value.

Functions either return a new value, or raise an exception. See `Validator Exceptions`_ for the low down on the exception classes that ``validate.py`` defines.

Some standard functions are provided, for basic data types; these come built into every validator. Additional checks are easy to write: they can be provided when the ``Validator`` is instantiated, or added afterwards.

Validate was primarily written to support ConfigObj_, but is designed to be applicable to many other situations.

For support and bug reports please use the ConfigObj `Mailing List`_.

.. _ConfigObj: http://www.voidspace.org.uk/python/configobj.html

Downloading
============

The current version is **1.0.1**, dated 9th January 2010.

You can get obtain validate in the following ways :

Files
-----

* validate.py_ from Voidspace

* configobj.zip from Voidspace - See the homepage of ConfigObj_ for the latest
version and download links.

This contains validate.py and `this document`_. (As well as ConfigObj_ and the ConfigObj documentation).

* The latest development version can be obtained from the `Subversion Repository`_.

Documentation
-------------

`configobj.zip` contains `this document`_.

* You can view `this document`_ online as the `Validate Homepage`_.

.. _configobj.py: http://www.voidspace.org.uk/cgi-bin/voidspace/download/configobj.py
.. _configobj.zip: http://www.voidspace.org.uk/cgi-bin/voidspace/download/configobj-4.7.0.zip
.. _validate.py: http://www.voidspace.org.uk/cgi-bin/voidspace/download/validate.py
.. _Subversion Repository: http://code.google.com/p/configobj/
.. _Sourceforge: http://sourceforge.net/projects/configobj
.. _validate: http://www.voidspace.org.uk/python/validate.html

The standard functions

The standard functions come built-in to every `Validator` instance. They work with the following basic data types:

* integer
* float
* boolean
* string
* ip_addr

plus lists of these datatypes.

Adding additional checks is done through coding simple functions.

The full set of standard checks are:

`:integer`: matches integer values (including negative). Takes optional `min` and `max` arguments:

    integer()
    integer(3, 9) # any value from 3 to 9
    integer(min=0) # any positive value
    integer(max=9)
'float': matches float values
Has the same parameters as the integer check.

'boolean': matches boolean values: ```"True"``` or ```"False"```.
Acceptable string values for True are::

    true, on, yes, 1

Acceptable string values for False are::

    false, off, no, 0

Any other value raises an error.

'string': matches any string. Takes optional keyword args 'min' and 'max' to
specify min and max length of string.

'ip_addr': matches an Internet Protocol address, v.4, represented by a
dotted-quad string, i.e. ```'1.2.3.4'```.

'list': matches any list. Takes optional keyword args 'min', and 'max' to
specify min and max sizes of the list. The list checks always
return a list.

'force_list': matches any list, but if a single value is passed in will
cast it into a list containing that value. Useful for
configobj if the user forgot the trailing comma to turn
a single value into a list.

'tuple': matches any list. This check returns a tuple rather than a list.

'int_list': Matches a list of integers. Takes the same arguments as list.

'float_list': Matches a list of floats. Takes the same arguments as list.

'bool_list': Matches a list of boolean values. Takes the same arguments as
list.

'string_list': Matches a list of strings. Takes the same arguments as list.

'ip_addr_list': Matches a list of IP addresses. Takes the same arguments as
list.

'mixed_list': Matches a list with different types in specific positions.
List size must match the number of arguments.

    Each position can be one of::
int, str, boolean, float, ip_addr

So to specify a list with two strings followed by two integers, you write the check as:

mixed_list(str, str, int, int)

::pass:: matches everything: it never fails and the value is unchanged. It is also the default if no check is specified.

::option:: matches any from a list of options.
You specify this test with::

option('option 1', 'option 2', 'option 3')

The following code will work without you having to specifically add the functions yourself.

.. code-block:: python

    from validate import Validator
    #
    vtor = Validator()
    newval1 = vtor.check('integer', value1)
    newval2 = vtor.check('boolean', value2)
    # etc ...

.. note::

    Of course, if these checks fail they raise exceptions. So you should wrap them in ``try...except`` blocks. Better still, use ConfigObj for a higher level interface.

Using Validator

``Validator``

``Validator`` is very easy. It has one public attribute and one public method.

Shown below are the different steps in using ``Validator``.

The only additional thing you need to know, is about `Writing check functions`_.

Instantiate

----------
.. code-block:: python

from validate import Validator
vtor = Validator()

or even:

.. code-block:: python

from validate import Validator
#
fdict = {
    'check_name1': function1,
    'check_name2': function2,
    'check_name3': function3,
}
#
vtor = Validator(fdict)

The second method adds a set of your functions as soon as your validator is created. They are stored in the ``vtor.functions`` dictionary. The 'key' you give them in this dictionary is the name you use in your checks (not the original function name).

Dictionary keys/functions you pass in can override the built-in ones if you want.

Adding functions
----------------

The code shown above, for adding functions on instantiation, has exactly the same effect as the following code:

.. code-block:: python

from validate import Validator
#
vtor = Validator()
vtor.functions['check_name1'] = function1
vtor.functions['check_name2'] = function2
vtor.functions['check_name3'] = function3

``vtor.functions`` is just a dictionary that maps names to functions, so we could also have called ``vtor.functions.update(fdict)``.
Writing the check

 As we've heard, the checks map to the names in the `functions` dictionary. You've got a full list of `The standard functions` and the arguments they take.

 If you're using `Validator` from ConfigObj, then your checks will look like:

```python
keyword = int_list(max=6)
```

but the check part will be identical.

The check method

 As if you're not using `Validator` from ConfigObj, then you'll need to call the `check` method yourself.

 If the check fails then it will raise an exception, so you'll want to trap that. Here's the basic example:

```python
from validate import Validator, ValidateError
#
vtor = Validator()
check = "integer(0, 9)"
value = 3
try:
    newvalue = vtor.check(check, value)
except ValidateError:
    print 'Check Failed.'
else:
    print 'Check passed.'
```

.. caution::

 Although the value can be a string, if it represents a list it should already have been turned into a list of strings.

Default Values

 ~~~~~~~~~~~~~~
Some values may not be available, and you may want to be able to specify a default as part of the check.

You do this by passing the keyword `missing=True` to the `check` method, as well as a `default=value` in the check. (Constructing these checks is done automatically by ConfigObj: you only need to know about the `default=value` part):

```
.. code-block:: python

    check1 = 'integer(default=50)'
    check2 = 'option("val 1", "val 2", "val 3", default="val 1")'

    assert vtor.check(check1, '', missing=True) == 50
    assert vtor.check(check2, '', missing=True) == "val 1"
```

If you pass in `missing=True` to the check method, then the actual value is ignored. If no default is specified in the check, a `ValidateMissingValue` exception is raised. If a default is specified then that is passed to the check instead.

If the check has `default=None` (case sensitive) then `vtor.check` will *always* return `None` (the object). This makes it easy to tell your program that this check contains no useful value when missing, i.e. the value is optional, and may be omitted without harm.

.. note::

    As of version 0.3.0, if you specify `default=None` (note the quote marks around `None`) then it will be interpreted as the string `"None"`.

List Values
~~~~~~~~~~

It's possible that you would like your default value to be a list. It's even possible that you will write your own check functions - and would like to pass them keyword arguments as lists from within the check.

To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the `default` value. This makes checks look something like::

```
    checkname(default=list('val1', 'val2', 'val3'))
```
Validator instances have a `get_default_value` method. It takes a `check` string (the same string you would pass to the `check` method) and returns the default value, converted to the right type. If the check doesn't define a default value then this method raises a `KeyError`.

If the `check` has been seen before then it will have been parsed and cached already, so this method is not expensive to call (however the conversion is done each time).

Validator Exceptions

Validator Exceptions

.. note::

If you only use Validator through ConfigObj, it traps these Exceptions for you. You will still need to know about them for writing your own check functions.

``vtor.check`` indicates that the check has failed by raising an exception. The appropriate error should be raised in the check function.

The base error class is ``ValidateError``. All errors (except for ``VdtParamError``) raised are sub-classes of this.

If an unrecognised check is specified then ``VdtUnknownCheckError`` is raised.

There are also `VdtTypeError` and `VdtValueError`.

If incorrect parameters are passed to a check function then it will (or should) raise `VdtParamError`. As this indicates *programmer* error, rather than an error in the value, it is a subclass of `SyntaxError` instead of `ValidateError`.

.. note::

This means it *won't* be caught by ConfigObj - but propagated instead.

If the value supplied is the wrong type, then the check should raise `VdtTypeError`, e.g. the check requires the value to be an integer (or representation of an integer) and something else was supplied.

If the value supplied is the right type, but an unacceptable value, then the check should raise `VdtValueError`, e.g. the check requires the value to be an integer (or representation of an integer) less than ten and a higher
value was supplied.

Both `VdtTypeError` and `VdtValueError` are initialised with the incorrect value. In other words you raise them like this:

```python
raise VdtTypeError(value)
```

```python
raise VdtValueError(value)
```

``VdtValueError`` has the following subclasses, which should be raised if they are more appropriate.

* ``VdtValueTooSmallError``
* ``VdtValueTooBigError``
* ``VdtValueTooShortError``
* ``VdtValueTooLongError``

Writing check functions
=======================

Writing check functions is easy.

The check function will receive the value as its first argument, followed by any other parameters and keyword arguments.

If the check fails, it should raise a `VdtTypeError` or a `VdtValueError` (or an appropriate subclass).

All parameters and keyword arguments are *always* passed as strings. (Parsed from the check string).

The value might be a string (or list of strings) and need converting to the right type - alternatively it might already be a list of integers. Our function needs to be able to handle either.

If the check passes then it should return the value (possibly converted to the right type).

And that's it !

Example
-------
Here is an example function that requires a list of integers. Each integer must be between 0 and 99.

It takes a single argument specifying the length of the list. (Which allows us to use the same check in more than one place). If the length can't be converted to an integer then we need to raise `VdtParamError`.

Next we check that the value is a list. Anything else should raise a `VdtTypeError`. The list should also have 'length' entries. If the list has more or less entries then we will need to raise a `VdtValueTooShortError` or a `VdtValueTooLongError`.

Then we need to check every entry in the list. Each entry should be an integer between 0 and 99, or a string representation of an integer between 0 and 99. Any other type is a `VdtTypeError`, any other value is a `VdtValueError` (either too big, or too small).

```python
def special_list(value, length):
    """Check that the supplied value is a list of integers,
    with 'length' entries, and each entry between 0 and 99.
    ""
    # length is supplied as a string
    # we need to convert it to an integer
    try:
        length = int(length)
    except ValueError:
        raise VdtParamError('length', length)

    # Check the supplied value is a list
    if not isinstance(value, list):
        raise VdtTypeError(value)

    # check the length of the list is correct
    if len(value) > length:
        raise VdtValueTooLongError(value)
    elif len(value) < length:
        raise VdtValueTooShortError(value)

    # Next, check every member in the list
    # converting strings as necessary
    out = []
    for entry in value:
        if not isinstance(entry, (str, unicode, int)):
            # a value in the list
            # is neither an integer nor a string
```
raise VdtTypeError(value)
elif isinstance(entry, (str, unicode)):
    if not entry.isdigit():
        raise VdtTypeError(value)
else:
    entry = int(entry)
if entry < 0:
    raise VdtValueTooSmallError(value)
elif entry > 99:
    raise VdtValueTooBigError(value)
out.append(entry)
#
# if we got this far, all is well
# return the new list
return out

If you are only using validate from ConfigObj then the error type (*TooBig*,
*TooSmall*, etc) is lost - so you may only want to raise `VdtValueError`.

```
.. caution::

    If your function raises an exception that isn't a subclass of
    `ValidateError`, then ConfigObj won't trap it. This means validation will
    fail.

    This is why our function starts by checking the type of the value. If we
    are passed the wrong type (e.g. an integer rather than a list) we get a
    `VdtTypeError` rather than bombing out when we try to iterate over
    the value.

    If you are using validate in another circumstance you may want to create your
    own subclasses of `ValidateError` which convey more specific information.

Known Issues

The following parses and then blows up. The resulting error message
is confusing:

```
``checkname(default=list(1, 2, 3, 4))``
```

This is because it parses as: `checkname(default="list(1", 2, 3, 4)`.
That isn't actually unreasonable, but the error message won't help you
work out what has happened.

TODO
* A regex check function?
* A timestamp check function? (Using the ``parse`` function from ``DateUtil`` perhaps).

** ISSUES **

.. _note::

Please file any bug reports to `Michael Foord`_ or the ConfigObj `Mailing List`_.

If we could pull tuples out of arguments, it would be easier to specify arguments for 'mixed_lists'.

** CHANGELOG **

2009/10/25 - Version 1.0.1

* BUGFIX: Fixed compatibility with Python 2.3.

2009/04/13 - Version 1.0.0

* BUGFIX: can now handle multiline strings.
* Addition of 'force_list' validation option.

As the API is stable and there are no known bugs or outstanding feature requests I am marking this 1.0.

2008/02/24 - Version 0.3.2

BUGFIX: Handling of None as default value fixed.

2008/02/05 - Version 0.3.1

BUGFIX: Unicode checks no longer broken.

2008/02/05 - Version 0.3.0
Improved performance with a parse cache.

New "get_default_value" method. Given a check it returns the default value (converted to the correct type) or raises a "KeyError" if the check doesn't specify a default.

Added 'tuple' check and corresponding 'is_tuple' function (which always returns a tuple).

BUGFIX: A quoted 'None' as a default value is no longer treated as None, but as the string 'None'.

BUGFIX: We weren't unquoting keyword arguments of length two, so an empty string didn't work as a default.

BUGFIX: Strings no longer pass the 'is_list' check. Additionally, the list checks always return lists.

A couple of documentation bug fixes.

Removed CHANGELOG from module.

2007/02/04       Version 0.2.3
--------------------------
Release of 0.2.3

2006/12/17       Version 0.2.3-alpha1
--------------------------
By Nicola Larosa

Fixed validate doc to talk of "boolean" instead of "bool"; changed the "is_bool" function to "is_boolean" (Sourceforge bug #1531525).

2006/04/29       Version 0.2.2
--------------------------
Addressed bug where a string would pass the "is_list" test. (Thanks to Konrad Wojas.)

2005/12/16       Version 0.2.1
--------------------------
Fixed bug so we can handle keyword argument values with commas.

We now use a list constructor for passing list values to keyword arguments (including `"default"`):

    default=list("val", "val", "val")

Added the `"_test"` test.

Moved a function call outside a try...except block.

2005/08/18  Version 0.2.0
------------------------

Updated by `Michael Foord`_ and `Nicola Larosa`_

Does type conversion as well.

2005/02/01  Version 0.1.0
------------------------

Initial version developed by `Michael Foord`_
and Mark Andrews.

Found in path(s):
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/docs/validate.txt

No license file was found, but licenses were detected in source scan.

<tr class="field"><th class="docinfo-name">License:</th><td class="field-body"><a class="reference external" href="http://www.voidspace.org.uk/python/license.shtml">BSD License</a></td>
<p>ConfigObj, and related files, are licensed under the BSD license. This is a All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided
* Neither the name of Michael Foord nor Nicola Larosa software without specific prior written permission.
<p>You should also be able to find a copy of this license at : <a class="reference external" href="http://www.voidspace.org.uk/python/license.shtml">BSD License</a></p>
Found in path(s):
* /opt/cola/permits/1136595909_1613806141.16/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-4PfyR1xo/configobj-4.7.2.zip-cosi-expand-archive-BQiS1vdQ/configobj-4.7.2/docs/configobj.html
No license file was found, but licenses were detected in source scan.

==================================
Reading and Writing Config Files
==================================

ConfigObj 4 Introduction and Reference
----------------------------------------

:Authors: Michael Foord, Nicola Larosa
:Version: ConfigObj 4.7.2
:Date: 2010/02/27
:Homepage: `ConfigObj Homepage`_
:PyPI Entry: `ConfigObj on PyPI <http://pypi.python.org/pypi/configobj/>`_
:Development: `Google Code Homepage`_
:License: `BSD License`_
:Support: `Mailing List`_

.. _Mailing List: http://lists.sourceforge.net/lists/listinfo/configobj-develop
.. _Google Code Homepage: http://code.google.com/p/configobj/

.. meta::
   :description: ConfigObj - a Python module for easy reading and writing of config files.
   :keywords: python, script, module, config, configuration, data, persistence, developer, configparser

.. contents:: ConfigObj Manual
   .. sectnum::

   .. note::

   The best introduction to working with ConfigObj, including the powerful configuration validation system, is the article:

   * `An Introduction to ConfigObj <http://www.voidspace.org.uk/python/articles/configobj.shtml>`_

Introduction
============

**ConfigObj** is a simple but powerful config file reader and writer: an *ini file round tripper*. Its main feature is that it is very easy to use, with a straightforward programmer's interface and a simple syntax for config files.
It has lots of other features though:

* Nested sections (subsections), to any level
* List values
* Multiple line values
* String interpolation (substitution)
* Integrated with a powerful validation system

- including automatic type checking/conversion
- repeated sections
- and allowing default values

* When writing out config files, ConfigObj preserves all comments and the order of members and sections
* Many useful methods and options for working with configuration files (like the 'reload' method)
* Full Unicode support

For support and bug reports please use the ConfigObj `Mailing List` or the issue tracker on the `Google Code Homepage`.

Downloading
============

The current version is **4.7.2**, dated 27th February 2010. ConfigObj 4 is stable and mature. We still expect to pick up a few bugs along the way though [1].

You can get ConfigObj in the following ways:

* configobj.py from Voidspace

ConfigObj has no external dependencies. This file is sufficient to access all the functionality except Validation.

* configobj.zip from Voidspace

This also contains validate.py and `this document`.

* validate.py from Voidspace

Installing
----------

ConfigObj has a source distribution on PyPI <http://pypi.python.org/pypi/configobj/> If you unzip the archive you can install it with:

```
setup.py install
```
Alternatively, you can install with easy install or pip:

```
   easy_install configobj
```

**Documentation**

*configobj.zip* also contains `this document`_.

* You can view `this document`_ online at the `ConfigObj Homepage`_.

**Development Version**

It is sometimes possible to get the latest *development version* of ConfigObj from the Subversion Repository maintained on the `Google Code Homepage`_.

.. _configobj.py: http://www.voidspace.org.uk/downloads/configobj.py
.. _configobj.zip: http://www.voidspace.org.uk/downloads/configobj-4.7.2.zip
.. _validate.py: http://www.voidspace.org.uk/downloads/validate.py
.. _this document:
.. _configobj homepage: http://www.voidspace.org.uk/python/configobj.html

**ConfigObj in the Real World**

**ConfigObj** is widely used. Projects using it include:

* `Bazaar <http://bazaar-ng.org>`_
  Bazaar is a Python distributed [acro;VCS;Version Control System].
  ConfigObj is used to read ```bazaar.conf`` and ```branches.conf```

* `Chandler <http://chandler.osafoundation.org/>`_
  A Python and `wxPython <http://www.wxpython.org>`_

* `matplotlib <http://matplotlib.sourceforge.net/>`_
  A 2D plotting library.
IPython is an enhanced interactive Python shell. IPython uses ConfigObj in a module called 'TConfig' that combines it with enthought Traits' tconfig.

Elisa is an open source cross-platform media center solution designed to be simple for people not particularly familiar with computers.

Getting Started

The outstanding feature of using ConfigObj is simplicity. Most functions can be performed with single line commands.

Reading a Config File

The normal way to read a config file, is to give ConfigObj the filename:

```python
from configobj import ConfigObj
config = ConfigObj(filename)
```

You can also pass the config file in as a list of lines, or a `StringIO` instance, so it doesn't matter where your config data comes from.

You can then access members of your config file as a dictionary. Subsections will also be dictionaries.

```python
from configobj import ConfigObj
config = ConfigObj(filename)

# value1 = config['keyword1']
# value2 = config['keyword2']
# section1 = config['section1']
# value3 = section1['keyword3']
# value4 = section1['keyword4']
# you could also write
```
value3 = config['section1']['keyword3']
value4 = config['section1']['keyword4']

Writing a Config File
---------------------

Creating a new config file is just as easy as reading one. You can specify a
filename when you create the ConfigObj, or do it later [#]_.

If you *don't* set a filename, then the ``write`` method will return a list of
lines instead of writing to file. See the write_ method for more details.

Here we show creating an empty ConfigObj, setting a filename and some values,
and then writing to file :

.. code-block:: python

    from configobj import ConfigObj
    config = ConfigObj()
    config.filename = filename
    
    #
    config['keyword1'] = value1
    config['keyword2'] = value2
    
    #
    config['section1'] = {}
    config['section1']['keyword3'] = value3
    config['section1']['keyword4'] = value4
    
    #
    section2 = {
        'keyword5': value5,
        'keyword6': value6,
        'sub-section': {
            'keyword7': value7
        }
    }
    
    config['section2'] = section2
    
    #
    config['section3'] = {}
    config['section3']['keyword 8'] = [value8, value9, value10]
    config['section3']['keyword 9'] = [value11, value12, value13]
    
    #
    config.write()
Keywords and section names can only be strings [#]. Attempting to set anything else will raise a ``ValueError``.

See `String Interpolation and List Values`_ for an important note on using lists in combination with `String Interpolation`_.

Config Files
------------

The config files that ConfigObj will read and write are based on the 'INI' format. This means it will read and write files created for ``ConfigParser`` [#].

Keywords and values are separated by an ``='``, and section markers are between square brackets. Keywords, values, and section names can be surrounded by single or double quotes. Indentation is not significant, but can be preserved.

Subsections are indicated by repeating the square brackets in the section marker. You nest levels by using more brackets.

You can have list values by separating items with a comma, and values spanning multiple lines by using triple quotes (single or double).

For full details on all these see `the config file format`_. Here's an example to illustrate:.

```ini
# This is the 'initial_comment'
# Which may be several lines
keyword1 = value1
'keyword 2' = 'value 2'

[ "section 1" ]
# This comment goes with keyword 3
keyword 3 = value 3
'keyword 4' = value4, value 5, 'value 6'

[[ sub-section ]]  # an inline comment
# sub-section is inside "section 1"
'keyword 5' = 'value 7'
'keyword 6' = '''A multiline value, that spans more than one line :-)
The line breaks are included in the value.'''

[[[ sub-sub-section ]]]
# sub-sub-section is *in* 'sub-section'
# which is in 'section 1'
```

---

Open Source Used In Data Center Network Manager 11.5(1) 22954
ConfigObj specifications
==================================

.. code-block:: python

    config = ConfigObj(infile=None, options=None, configspec=None, encoding=None,
                        interpolation=True, raise_errors=False, list_values=True,
                        create_empty=False, file_error=False, stringify=True,
                        indent_type=None, default_encoding=None, unrepr=False,
                        write_empty_values=False, _inspec=False)

Many of the keyword arguments are available as attributes after the config file has been parsed.

.. note::

    New in ConfigObj 4.7.0: Instantiating ConfigObj with
    an ``options`` dictionary is now deprecated. To modify code that used to
    do this simply unpack the dictionary in the constructor call:

    .. code-block:: python

        config = ConfigObj(filename, **options)

ConfigObj takes the following arguments (with the default values shown):

* **infil**: ``None``

    You don't need to specify an infil. If you omit it, an empty ConfigObj will be
    created. ``infil`` can be:

    * Nothing. In which case the ``infil`` attribute of your ConfigObj will be
      ``None``. You can set a filename at any time.

    * A filename. What happens if the file doesn't already exist is determined by
      the options ``file_error`` and ``create_empty``. The filename will be
      preserved as the ``infil`` attribute. This can be changed at any time.

    * A list of lines. Any trailing newlines will be removed from the lines. The
``filename`` attribute of your ConfigObj will be "None". 

* A `StringIO` instance or file object, or any object with a `read` method.
  The `filename` attribute of your ConfigObj will be "None" \[#\].

* A dictionary. You can initialise a ConfigObj from a dictionary \[#\]. The `filename` attribute of your ConfigObj will be "None". All keys must be strings. In this case, the order of values and sections is arbitrary.

* `raise_errors`: `False`

  When parsing, it is possible that the config file will be badly formed. The default is to parse the whole file and raise a single error at the end. You can set `raise_errors = True` to have errors raised immediately. See the exceptions section for more details.

  Altering this value after initial parsing has no effect.

* `list_values`: `True`

  If `True` (the default) then list values are possible. If `False`, the values are not parsed for lists.

  If `list_values = False` then single line values are not quoted or unquoted when reading and writing.

  Changing this value affects whether single line values will be quoted or not when writing.

* `create_empty`: `False`

  If this value is `True` and the file specified by `infile` doesn't exist, ConfigObj will create an empty file. This can be a useful test that the filename makes sense: an impossible filename will cause an error.

  Altering this value after initial parsing has no effect.

* `file_error`: `False`

  If this value is `True` and the file specified by `infile` doesn't exist, ConfigObj will raise an `IOError`.

  Altering this value after initial parsing has no effect.

* `interpolation`: `True`

  Whether string interpolation is switched on or not. It is on ("True") by default.
You can set this attribute to change whether string interpolation is done when values are fetched. See the `String Interpolation` section for more details.

New in ConfigObj 4.7.0: Interpolation will also be done in list values.

* `configspec`: `None`

If you want to use the validation system, you supply a configspec. This is effectively a type of config file that specifies a check for each member. This check can be used to do type conversion as well as check that the value is within your required parameters.

You provide a configspec in the same way as you do the initial file: a filename, or list of lines, etc. See the validation section for full details on how to use the system.

When parsed, every section has a `configspec` with a dictionary of configspec checks for *that section*.

* `stringify`: `True`

If you use the validation scheme, it can do type checking *and* conversion for you. This means you may want to set members to integers, or other non-string values.

If `stringify` is set to `True` (default) then non-string values will be converted to strings when you write the config file. The validation process converts values from strings to the required type.

If `stringify` is set to `False`, attempting to set a member to a non-string value [#] will raise a `TypeError` (no type conversion is done by validation).

* `indent_type`: `''`

Indentation is not significant; it can however be present in the input and output config. Any combination of tabs and spaces may be used; the string will be repeated for each level of indentation. Typical values are: `''` (no indentation), `'' ''` (indentation with four spaces, the default), `''"t''` (indentation with one tab).

If this option is not specified, and the ConfigObj is initialised with a dictionary, the indentation used in the output is the default one, that is, four spaces.

If this option is not specified, and the ConfigObj is initialised with a list of lines or a file, the indentation used in the first indented line is
selected and used in all output lines. If no input line is indented, no output line will be either.

If this option *is* specified, the option value is used in the output config, overriding the type of indentation in the input config (if any).

* 'encoding': ``None``

By default **ConfigObj** does not decode the file/strings you pass it into Unicode [#]. If you want your config file as Unicode (keys and members) you need to provide an encoding to decode the file with. This encoding will also be used to encode the config file when writing.

You can change the encoding attribute at any time.

Any characters in your strings that can't be encoded with the specified encoding will raise a `UnicodeEncodeError`.

.. note::

``UTF16`` encoded files will automatically be detected and decoded, even if ``encoding`` is ``None``.

This is because it is a 16-bit encoding, and ConfigObj will mangle it (split characters on byte boundaries) if it parses it without decoding.

* 'default_encoding': ``None``

When using the `write` method, **ConfigObj** uses the `encoding` attribute to encode the Unicode strings. If any members (or keys) have been set as byte strings instead of Unicode, these must first be decoded to Unicode before outputting in the specified encoding.

`default_encoding`, if specified, is the encoding used to decode byte strings in the **ConfigObj** before writing. If this is `None`, then the Python default encoding (`sys.defaultencoding` - usually ASCII) is used.

For most Western European users, a value of `latin-1` is sensible.

`default_encoding` is *only* used if an `encoding` is specified.

Any characters in byte-strings that can't be decoded using the `default_encoding` will raise a `UnicodeDecodeError`.

* 'unrepr': `False`

The `unrepr` option reads and writes files in a different mode. This
allows you to store and retrieve the basic Python data-types using config files.

This uses Python syntax for lists and quoting. See `unrepr mode`_ for the full details.

* `write_empty_values`: `False`

If `write_empty_values` is `True`, empty strings are written as empty values. See `Empty Values`_ for more details.

* `_inspec`: `False`

Used internally by ConfigObj when parsing configspec files. If you are creating a ConfigObj instance from a configspec file you must pass True for this argument as well as `list_values=False`.

Methods
-------

The ConfigObj is a subclass of an object called `Section`, which is itself a subclass of `dict`, the built-in dictionary type. This means it also has **all** the normal dictionary methods.

In addition, the following `Section Methods`_ may be useful:

* `restore_default`
* `restore_defaults`
* `walk`
* `merge`
* `dict`
* `as_bool`
* `as_float`
* `as_int`
* `as_list`

Read about Sections_ for details of all the methods.

.. hint::

    The *merge* method of sections is a recursive update.

    You can use this to merge sections, or even whole ConfigObjs, into each other.

    You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are
different from the default. You can use configspecs and validation to achieve the same thing of course.

The public methods available on ConfigObj are:

* `write`
* `validate`
* `reset`
* `reload`

write
~~~~~~

```python
write(file_object=None)
```

This method writes the current ConfigObj and takes a single, optional argument [#1].

If you pass in a file like object to the `write` method, the config file will be written to this. (The only method of this object that is used is its `write` method, so a `StringIO` instance, or any other file like object will work.)

Otherwise, the behaviour of this method depends on the `filename` attribute of the ConfigObj.

``filename``
ConfigObj will write the configuration to the file specified.

``None``
`write` returns a list of lines. (Not `\n` terminated)

First the 'initial_comment' is written, then the config file, followed by the 'final_comment'. Comment lines and inline comments are written with each key/value.

validate
~~~~~~

```python
validate validator, preserve_errors=False, copy=False)
```
.. code-block:: python

    # filename is the config file
    # filename2 is the configspec
    # (which could also be hardcoded into your program)
    config = ConfigObj(filename, configspec=filename2)
    #
    from validate import Validator
    val = Validator()
    test = config.validate(val)
    if test == True:
        print 'Succeeded.'

The validate method uses the `validate <http://www.voidspace.org.uk/python/validate.html>`__ module to do the validation.

This method validates the ConfigObj against the configspec. By doing type conversion as well it can abstract away the config file altogether and present the config *data* to your application (in the types it expects it to be).

If the `configspec` attribute of the ConfigObj is `None`, it raises a `ValueError`.

If the `stringify_` attribute is set, this process will convert values to the type defined in the configspec.

The validate method uses checks specified in the configspec and defined in the `Validator` object. It is very easy to extend.

The configspec looks like the config file, but instead of the value, you specify the check (and any default value). See the validation_ section for details.

.. hint::

    The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best guide to them is this article on ConfigObj:

    * `An Introduction to ConfigObj`_

The `copy` parameter fills in missing values from the configspec (default values), *without* marking the values as defaults. It also causes comments to be copied from the configspec into the config file. This allows you to use a configspec to create default config files. (Normally default values aren't written out by the `write` method.)
As of ConfigObj 4.3.0 you can also pass in a ConfigObj instance as your configspec. This is especially useful if you need to specify the encoding of your configspec file. When you read your configspec file, you *must* specify `list_values=False`. If you need to support hashes inside the configspec values then you must also pass in `__inspec=True`. This is because configspec files actually use a different syntax to config files and inline comment support must be switched off to correctly read configspec files with hashes in the values.

.. code-block:: python

   from configobj import ConfigObj
   
   configspec = ConfigObj(configspecfilename, encoding='UTF8',
                           list_values=False, __inspec=True)
   config = ConfigObj(filename, configspec=configspec)

Return Value

By default, the validate method either returns `True` (everything passed) or a dictionary of `True` / `False` representing pass/fail. The dictionary follows the structure of the ConfigObj.

If a whole section passes then it is replaced with the value `True`. If a whole section fails, then it is replaced with the value `False`.

If a value is missing, and there is no default in the check, then the check automatically fails.

The `validate` method takes an optional keyword argument `preserve_errors`. If you set this to `True`, instead of getting `False` for failed checks you get the actual error object from the `validate` module. This usually contains useful information about why the check failed.

See the `flatten_errors` function for how to turn your results dictionary into a useful list of error messages.

Even if `preserve_errors` is `True`, missing keys or sections will still be represented by a `False` in the results dictionary.

Mentioning Default Values

In the check in your configspec, you can specify a default to be used - by using the `default` keyword. E.g. ::
key1 = integer(0, 30, default=15)
key2 = integer(default=15)
key3 = boolean(default=True)
key4 = option('Hello', 'Goodbye', 'Not Today', default='Not Today')

If the configspec check supplies a default and the value is missing in the
cfg, then the default will be set in your ConfigObj. (It is still passed to
the ``Validator`` so that type conversion can be done: this means the default
value must still pass the check.)

ConfigObj keeps a record of which values come from defaults, using the
``defaults`` attribute of sections_. Any key in this list isn't written out by
the ``write`` method. If a key is set from outside (even to the same value)
then it is removed from the ``defaults`` list.

.. note:

Even if all the keys in a section are in the defaults list, the section
marker is still written out.

There is additionally a special case default value of ``None``. If you set the
default value to ``None`` and the value is missing, the value will always be
set to ``None``. As the other checks don't return ``None`` (unless you
implement your own that do), you can tell that this value came from a default
value (and was missing from the config file). It allows an easy way of
implementing optional values. Simply check (and ignore) members that are set
to ``None``.

.. note::

If `stringify_` is ``False`` then ``default=None`` returns ``''`` instead of
``'None'``. This is because setting a value to a non-string raises an error
if `stringify` is unset.

The default value can be a list. See `List Values`_ for the way to do this.

Writing invalid default values is a *guaranteed* way of confusing your users.
Default values **must** pass the check.

Mentioning Repeated Sections and Values

In the configspec it is possible to cause *every* sub-section in a section to
be validated using the same configspec. You do this with a section in the
configspec called ``__many__``. Every sub-section in that section has the
``__many__`` configspec applied to it (without you having to explicitly name
them in advance).

Your ``__many__`` section can have nested subsections, which can also include ``__many__`` type sections.

You can also specify that all values should be validated using the same configspec, by having a member with the name ``__many__``. If you want to use repeated values along with repeated sections then you can call one of them ``___many___`` (triple underscores).

Sections with repeated sections or values can also have specifically named sub-sections or values. The ``__many__`` configspec will only be used to validate entries that don't have an explicit configspec.

See `Repeated Sections`_ for examples.

Mentioning SimpleVal

"""
If you just want to check if all members are present, then you can use the `SimpleVal` object that comes with ConfigObj. It only fails members if they are missing.

Write a configspec that has all the members you want to check for, but set every section to `''`.

.. code-block:: python

    val = SimpleVal()
    test = config.validate(val)
    if test is True:
        print 'Succeeded.'

Mentioning copy Mode

"""

As discussed in `Mentioning Default Values`_, you can use a configspec to supply default values. These are marked in the ConfigObj instance as defaults, and *not* written out by the `write` mode. This means that your users only need to supply values that are different from the defaults.

This can be inconvenient if you *do* want to write out the default values, for example to write out a default config file.

If you set ``copy=True`` when you call validate, then no values are marked as defaults. In addition, all comments from the configspec are copied into
your ConfigObj instance. You can then call ``write`` to create your config file.

There is a limitation with this. In order to allow `String Interpolation`_ to work within configspecs, `DEFAULT` sections are not processed by validation; even in copy mode.

reload
~~~~~~

If a ConfigObj instance was loaded from the filesystem, then this method will reload it. It will also reuse any configspec you supplied at instantiation (including reloading it from the filesystem if you passed it in as a filename).

If the ConfigObj does not have a filename attribute pointing to a file, then a ```ReloadError``` will be raised.

reset
~~~~~~

This method takes no arguments and doesn't return anything. It restores a ConfigObj instance to a freshly created state.

Attributes
----------

A ConfigObj has the following attributes:

* indent_type
* interpolation
* stringify
* BOM
* initial_comment
* final_comment
* list_values
* encoding
* default_encoding
* unrepr
* write_empty_values
* newlines

.. note::

   This doesn't include *comments*, *inline_comments*, *defaults*, or *configspec*. These are actually attributes of Sections_.
It also has the following attributes as a result of parsing. They correspond to options when the ConfigObj was created, but changing them has no effect.

* raise_errors
* create_empty
* file_error

interpolation
~~~~~~~~~~~~

ConfigObj can perform string interpolation in a *similar* way to `ConfigParser`. See the `String Interpolation` section for full details.

If ``interpolation`` is set to ``False``, then interpolation is *not* done when you fetch values.

stringify
~~~~~~~~~~

If this attribute is set (``True``) then the validate_ method changes the values in the ConfigObj. These are turned back into strings when write_ is called.

If stringify is unset (``False``) then attempting to set a value to a non string (or a list of strings) will raise a `TypeError`.

BOM
~~~

If the initial config file *started* with the UTF8 Unicode signature (known slightly incorrectly as the BOM - Byte Order Mark), or the UTF16 BOM, then this attribute is set to ``True``. Otherwise it is ``False``.

If it is set to ``True`` when ``write`` is called then, if ``encoding`` is set to ``None`` *or* to ``utf_8`` (and variants) a UTF BOM will be written.

For UTF16 encodings, a BOM is *always* written.

initial_comment
~~~~~~~~~~~~~~~~

This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments before the start of the members.
If you create a new ConfigObj, this will be an empty list.

The write method puts these lines before it starts writing out the members.

final_comment
~~~~~~~~~~~~~

This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments after the last member.

If you create a new ConfigObj, this will be an empty list.

The `write` method puts these lines after it finishes writing out the members.

list_values
~~~~~~~~~~~

This attribute is `True` or `False`. If set to `False` then values are not parsed for list values. In addition single line values are not unquoted.

This allows you to do your own parsing of values. It exists primarily to support the reading of the configspec - but has other use cases.

For example you could use the `LineParser` from the `listquote` module <http://www.voidspace.org.uk/python/listquote.html#lineparser> to read values for nested lists.

Single line values aren't quoted when writing - but multiline values are handled as normal.

.. caution::

   Because values aren't quoted, leading or trailing whitespace can be lost. This behaviour was changed in version 4.0.1. Prior to this, single line values might have been quoted; even with `list_values=False`. This means that files written by earlier versions of ConfigObj *could* now be incompatible and need the quotes removing by hand.

encoding
~~~~~~~~

This is the encoding used to encode the output, when you call `write`. It must be a valid encoding `recognised by Python <http://docs.python.org/lib/standard-encodings.html>`.

If this value is `None` then no encoding is done when `write` is called.
default_encoding
~~~~~~~~~~~~~~~~

If encoding is set, any byte-strings in your ConfigObj instance (keys or members) will first be decoded to Unicode using the encoding specified by the "default_encoding" attribute. This ensures that the output is in the encoding specified.

If this value is "None" then "sys.defaultencoding" is used instead.

unrepr
~~~~~~

Another boolean value. If this is set, then "repr(value)" is used to write values. This writes values in a slightly different way to the normal ConfigObj file syntax.

This preserves basic Python data-types when read back in. See `unrepr mode` for more details.

write_empty_values
~~~~~~~~~~~~~~~~~~

Also boolean. If set, values that are an empty string (""") are written as empty values. See `Empty Values` for more details.

newlines
~~~~~~~

When a config file is read, ConfigObj records the type of newline separators in the file and uses this separator when writing. It defaults to "None", and ConfigObj uses the system default ("os.sep") if write is called without newlines having been set.

The Config File Format
~~~~~~~~~~~~~~~~~~~~~~

You saw an example config file in the `Config Files` section. Here is a fuller specification of the config files used and created by ConfigObj.

The basic pattern for keywords is:
Both keyword and value can optionally be surrounded in quotes. The equals sign is the only valid divider.

Values can have comments on the lines above them, and an inline comment after them. This, of course, is optional. See the comments section for details.

If a keyword or value starts or ends with whitespace, or contains a quote mark or comma, then it should be surrounded by quotes. Quotes are not necessary if whitespace is surrounded by non-whitespace.

Values can also be lists. Lists are comma separated. You indicate a single member list by a trailing comma. An empty list is shown by a single comma:

```
keyword1 = value1, value2, value3
keyword2 = value1, # a single member list
keyword3 = , # an empty list
```

Values that contain line breaks (multi-line values) can be surrounded by triple quotes. These can also be used if a value contains both types of quotes. List members cannot be surrounded by triple quotes:

```
keyword1 = ""A multi line value on several lines"" # with a comment
keyword2 = ""I won't be "afraid"."" #
keyword3 = ""A multi line value on several lines"" # with a comment
keyword4 = ""I won't be "afraid".""
```

.. warning::

There is no way of safely quoting values that contain both types of triple quotes.

A line that starts with a '#', possibly preceded by whitespace, is a comment.

New sections are indicated by a section marker line. That is the section name in square brackets. Whitespace around the section name is ignored. The name can be quoted with single or double quotes. The marker can have comments before it and an inline comment after it:

```
# The First Section
```
[section name 1] # first section
keyword1 = value1

# The Second Section
["section name 2"] # second section
keyword2 = value2

Any subsections (sections that are *inside* the current section) are designated by repeating the square brackets before and after the section name. The number of square brackets represents the nesting level of the sub-section. Square brackets may be separated by whitespace; such whitespace, however, will not be present in the output config written by the "write" method.

Indentation is not significant, but can be preserved. See the description of the "indent_type" option, in the `ConfigObj specifications` chapter, for the details.

A *NestingError* will be raised if the number of the opening and the closing brackets in a section marker is not the same, or if a sub-section's nesting level is greater than the nesting level of its parent plus one.

In the outer section, single values can only appear before any sub-section. Otherwise they will belong to the sub-section immediately before them::

# initial comment
keyword1 = value1
keyword2 = value2

[section 1]
keyword1 = value1
keyword2 = value2

[[sub-section]]
# this is in section 1
keyword1 = value1
keyword2 = value2

[[[nested section]]]
# this is in sub section
keyword1 = value1
keyword2 = value2

[[sub-section2]]
# this is in section 1 again
keyword1 = value1
keyword2 = value2

[[sub-section3]]
# this is also in section 1, indentation is misleading here
keyword1 = value1
keyword2 = value2

# final comment

When parsed, the above config file produces the following data structure:

```python
ConfigObj({
    'keyword1': 'value1',
    'keyword2': 'value2',
    'section 1': {
        'keyword1': 'value1',
        'keyword2': 'value2',
        'sub-section': {
            'keyword1': 'value1',
            'keyword2': 'value2',
            'nested section': {
                'keyword1': 'value1',
                'keyword2': 'value2',
            },
        },
        'sub-section2': {
            'keyword1': 'value1',
            'keyword2': 'value2',
        },
        'sub-section3': {
            'keyword1': 'value1',
            'keyword2': 'value2',
        },
    },
})
```

Sections are ordered: note how the structure of the resulting ConfigObj is in the same order as the original file.

.. note::

    In ConfigObj 4.3.0 *empty values* became valid syntax. They are read as the empty string. There is also an option/attribute (`write_empty_values`) to allow the writing of these.

    This is mainly to support 'legacy' config files, written from other applications. This is documented under `Empty Values`_.
`unrepr mode` introduces *another* syntax variation, used for storing basic Python datatypes in config files.

Sections
========

Every section in a ConfigObj has certain properties. The ConfigObj itself also has these properties, because it too is a section (sometimes called the *root section*).

``Section`` is a subclass of the standard new-class dictionary, therefore it has **all** the methods of a normal dictionary. This means you can `update` and `clear` sections.

.. note::

   You create a new section by assigning a member to be a dictionary.

   The new `Section` is created *from* the dictionary, but isn't the same thing as the dictionary. (So references to the dictionary you use to create the section *aren't* references to the new section).

   Note the following.

   .. code-block:: python

      config = ConfigObj()
      vals = {'key1': 'value 1',
              'key2': 'value 2'}
      config['vals'] = vals
      config['vals'] == vals
      True
      config['vals'] is vals
      False

   If you now change `vals`, the changes won't be reflected in `config['vals']`.

   A section is ordered, following its `scalars` and `sections` attributes documented below. This means that the following dictionary attributes return their results in order.

   * `__iter__`

   More commonly known as `for member in section`.
* '__repr__' and '__str__'

Any time you print or display the ConfigObj.

* 'items'
* 'iteritems'
* 'iterkeys'
* 'itervalues'
* 'keys'
* 'popitem'
* 'values'

Section Attributes
-------------------

* main

A reference to the main ConfigObj.

* parent

A reference to the 'parent' section, the section that this section is a member of.

On the ConfigObj this attribute is a reference to itself. You can use this to walk up the sections, stopping when `section.parent is section`.

* depth

The nesting level of the current section.

If you create a new ConfigObj and add sections, 1 will be added to the depth level between sections.

* defaults

This attribute is a list of scalars that came from default values. Values that came from defaults aren't written out by the `write` method. Setting any of these values in the section removes them from the defaults list.
* default_values

This attribute is a dictionary mapping keys to the default values for the keys. By default it is an empty dictionary and is populated when you validate the ConfigObj.

* scalars, sections

These attributes are normal lists, representing the order that members, single values and subsections appear in the section. The order will either be the order of the original config file, or the order that you added members.

The order of members in this lists is the order that `write` creates in the config file. The `scalars` list is output before the `sections` list.

Adding or removing members also alters these lists. You can manipulate the lists directly to alter the order of members.

.. warning::

   If you alter the `scalars`, `sections`, or `defaults` attributes so that they no longer reflect the contents of the section, you will break your ConfigObj.

See also the `rename` method.

* comments

This is a dictionary of comments associated with each member. Each entry is a list of lines. These lines are written out before the member.

* inline_comments

This is another dictionary of comments associated with each member. Each entry is a string that is put inline with the member.

* configspec

The configspec attribute is a dictionary mapping scalars to *checks*. A check defines the expected type and possibly the allowed values for a member.

The configspec has the same format as a config file, but instead of values it has a specification for the value (which may include a default value). The validate_ method uses it to check the config file makes sense. If a configspec is passed in when the ConfigObj is created, then it is parsed
and broken up to become the `configspec` attribute of each section.

If you didn't pass in a configspec, this attribute will be `None` on the root section (the main ConfigObj).

You can set the configspec attribute directly on a section.

See the validation_ section for full details of how to write configspecs.

* extra_values

By default an empty list. After validation this is populated with any members of the section that don't appear in the configspec (i.e. they are additional values). Rather than accessing this directly it may be more convenient to get all the extra values in a config file using the get_extra_values_ function.

New in ConfigObj 4.7.0.

Section Methods
----------------

* **dict**

This method takes no arguments. It returns a deep copy of the section as a dictionary. All subsections will also be dictionaries, and list values will be copies, rather than references to the original [#]_

* **rename**

`rename(oldkey, newkey)`

This method renames a key, without affecting its position in the sequence.

* **merge**

`merge(indict)`

This method is a *recursive update* method. It allows you to merge two config files together.

You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are different from the default.

For example :

.. code-block:: python
# def_cfg contains your default config settings
# user_cfg contains the user settings
cfg = ConfigObj(def_cfg)
usr = ConfigObj(user_cfg)
#
cfg.merge(usr)

""
cfg now contains a combination of the default settings and the user settings.

The user settings will have overwritten any of the default ones.
""

** walk**

This method can be used to transform values and names. See `walking a section`_ for examples and explanation.

** as_bool**

``as_bool(key)`

Returns ``True`` if the key contains a string that represents ``True``, or is the ``True`` object.

Returns ``False`` if the key contains a string that represents ``False``, or is the ``False`` object.

Raises a ``ValueError`` if the key contains anything else.

Strings that represent ``True`` are (not case sensitive):`

true, yes, on, 1

Strings that represent ``False`` are:

false, no, off, 0

** as_int**

``as_int(key)`

This returns the value contained in the specified key as an integer.

It raises a ``ValueError`` if the conversion can't be done.
**as_float**

``as_float(key)`

This returns the value contained in the specified key as a float.

It raises a ``ValueError`` if the conversion can't be done.

**as_list**

``as_list(key)`

This returns the value contained in the specified key as a list.

If it isn't a list it will be wrapped as a list so that you can guarantee the returned value will be a list.

**restore_default**

``restore_default(key)`

Restore (and return) the default value for the specified key.

This method will only work for a ConfigObj that was created with a configspec and has been validated.

If there is no default value for this key, ``KeyError`` is raised.

**restore_defaults**

``restore_defaults()``

Recursively restore default values to all members that have them.

This method will only work for a ConfigObj that was created with a configspec and has been validated.

It doesn't delete or modify entries without default values.

**Walking a Section**

-------------
.. note::

The walk method allows you to call a function on every member/name.

.. code-block:: python

    walk(function, raise_errors=True,
          call_on_sections=False, **kwargs)

``walk`` is a method of the ``Section`` object. This means it is also a method of ConfigObj.

It walks through every member and calls a function on the keyword and value. It walks recursively through subsections.

It returns a dictionary of all the computed values.

If the function raises an exception, the default is to propagate the error, and stop. If ``raise_errors=False`` then it sets the return value for that keyword to ``False`` instead, and continues. This is similar to the way validation works.

Your function receives the arguments ``(section, key)``. The current value is then ``section[key]``. Any unrecognised keyword arguments you pass to walk, are passed on to the function.

Normally ``walk`` just recurses into subsections. If you are transforming (or checking) names as well as values, then you want to be able to change the names of sections. In this case set ``call_on_sections`` to ``True``. Now, on encountering a sub-section, *first* the function is called for the *whole* sub-section, and *then* it recurses into it's members. This means your function must be able to handle receiving dictionaries as well as strings and lists.

If you are using the return value from ``walk`` *and* ``call_on_sections``, note that walk discards the return value when it calls your function.

.. caution::

    You can use ``walk`` to transform the names of members of a section but you mustn't add or delete members.

Examples
-------

You can use ``walk`` to transform all values in your ConfigObj. For example you might like the nested lists from ConfigObj 3. This was provided by the
listquote_ module. You could switch off the parsing for list values
(``list_values=False``) and use listquote to parse every value.

Another thing you might want to do is use the Python escape codes in your
values. You might be *used* to using ``\n`` for line feed and ``\t`` for tab.
Obviously we'd need to decode strings that come from the config file (using the
escape codes). Before writing out we'll need to put the escape codes back in
encode.

As an example we'll write a function to use with walk, that encodes or decodes
values using the `string-escape` codec.

The function has to take each value and set the new value. As a bonus we'll
create one function that will do decode *or* encode depending on a keyword
argument.

We don't want to work with section names, we're only transforming values, so
we can leave `call_on_sections` as `False`. This means the two datatypes we
have to handle are strings and lists, we can ignore everything else. (We'll
treat tuples as lists as well).

We're not using the return values, so it doesn't need to return anything, just
change the values if appropriate.

```python
.. code-block:: python

def string_escape(section, key, encode=False):
    """
    A function to encode or decode using the 'string-escape' codec.
    To be passed to the walk method of a ConfigObj.
    By default it decodes.
    To encode, pass in the keyword argument `encode=True`.
    """
    val = section[key]
    # is it a type we can work with
    # NOTE: for platforms where Python > 2.2
    # you can use basestring instead of (str, unicode)
    if not isinstance(val, (str, unicode, list, tuple)):
        # no !
        return
    elif isinstance(val, (str, unicode)):
        # it's a string !
        if not encode:
            section[key] = val.decode('string-escape')
        else:
            section[key] = val.encode('string-escape')
    else:
        # handle tuples as lists
        # (this is a bit brute-force)
        section[key] = [val_escape(v) for v in section[key]]
    return
```
# it must be a list or tuple!
# we'll be lazy and create a new list
newval = []
# we'll check every member of the list
for entry in val:
    if isinstance(entry, (str, unicode)):
        if not encode:
            newval.append(entry.decode('string-escape'))
        else:
            newval.append(entry.encode('string-escape'))
    else:
        newval.append(entry)
# done!
section[key] = newval

# assume we have a ConfigObj called ``config``
#
# To decode
cfg.walk(string_escape)
#
# To encode.
# Because ``walk`` doesn't recognise the ``encode`` argument
# it passes it to our function.
cfg.walk(string_escape, encode=True)

Here's a simple example of using ``walk`` to transform names and values. One usecase of this would be to create a *standard* config file with placeholders for section and keynames. You can then use walk to create new config files and change values and member names:

.. code-block:: python

    # We use 'XXXX' as a placeholder
    config = ''
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    [XXXXsection1]
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    [XXXXsection2]
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    [[XXXXsection1]]
    XXXXkey1 = XXXXvalue1
XXXkey2 = XXXXvalue2
XXXkey3 = XXXXvalue3

"".splitlines()
cfg = ConfigObj(config)
#

def transform(section, key):
    val = section[key]
    newkey = key.replace('XXX', 'CLIENT1')
    section.rename(key, newkey)
    if isinstance(val, (tuple, list, dict)):
        pass
    else:
        val = val.replace('XXX', 'CLIENT1')
        section[newkey] = val
#
cfg.walk(transform, call_on_sections=True)
print cfg
ConfigObj({'CLIENT1key1': 'CLIENT1value1', 'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3', 'CLIENT1section1': {'CLIENT1key1': 'CLIENT1value1', 'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3'}, 'CLIENT1section2': {'CLIENT1key1': 'CLIENT1value1', 'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3', 'CLIENT1section1': {'CLIENT1key1': 'CLIENT1value1', 'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3'}}})

Exceptions
==========

There are several places where ConfigObj may raise exceptions (other than because of bugs).

1) If a configspec filename you pass in doesn't exist, or a config file filename doesn't exist *and* `file_error=True`, an `IOError` will be raised.

2) If you try to set a non-string key, or a non string value when `stringify=False`, a `TypeError` will be raised.

3) A badly built config file will cause parsing errors.

4) A parsing error can also occur when reading a configspec.

5) In string interpolation you can specify a value that doesn't exist, or create circular references (recursion).

Number 5 (which is actually two different types of exceptions) is documented
in `String Interpolation`_.

*This* section is about errors raised during parsing.

The base error class is `ConfigObjError`. This is a subclass of `SyntaxError`, so you can trap for `SyntaxError` without needing to directly import any of the ConfigObj exceptions.

The following other exceptions are defined (all deriving from `ConfigObjError`) :

* `NestingError`

  This error indicates either a mismatch in the brackets in a section marker, or an excessive level of nesting.

* `ParseError`

  This error indicates that a line is badly written. It is neither a valid `key = value` line, nor a valid section marker line, nor a comment line.

* `DuplicateError`

  The keyword or section specified already exists.

* `ConfigspecError`

  An error occurred whilst parsing a configspec.

* `UnreprError`

  An error occurred when parsing a value in `unrepr mode`_.

* `ReloadError`

  `reload` was called on a ConfigObj instance that doesn't have a valid filename attribute.

When parsing a configspec, ConfigObj will stop on the first error it encounters. It will raise a `ConfigspecError`. This will have an `error` attribute, which is the actual error that was raised.

Behaviour when parsing a config file depends on the option `raise_errors`. If ConfigObj encounters an error while parsing a config file:

If `raise_errors=True` then ConfigObj will raise the appropriate error and parsing will stop.
If ``raise_errors=False`` (the default) then parsing will continue to the end and *all* errors will be collected.

If ``raise_errors`` is False and multiple errors are found a ``ConfigObjError`` is raised. The error raised has a ``config`` attribute, which is the parts of the ConfigObj that parsed successfully. It also has an attribute ``errors``, which is a list of *all* the errors raised. Each entry in the list is an instance of the appropriate error type. Each one has the following attributes (useful for delivering a sensible error message to your user):

* ``line``: the original line that caused the error.
* ``line_number``: its number in the config file.
* ``message``: the error message that accompanied the error.

If only one error is found, then that error is re-raised. The error still has the `config` and `errors` attributes. This means that your error handling code can be the same whether one error is raised in parsing, or several.

It also means that in the most common case (a single error) a useful error message will be raised.

.. note::

One wrongly written line could break the basic structure of your config file. This could cause every line after it to flag an error, so having a list of all the lines that caused errors may not be as useful as it sounds.

Validation
==========

.. hint::

The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best reference is my article on ConfigObj:

* `An Introduction to ConfigObj`_

Validation is done through a combination of the configspec_ and a ``Validator`` object. For this you need *validate.py* [#]_. See downloading_ if you don't have a copy.

Validation can perform two different operations:

1) Check that a value meets a specification. For example, check that a value
is an integer between one and six, or is a choice from a specific set of options.

2) It can convert the value into the type required. For example, if one of your values is a port number, validation will turn it into an integer for you.

So validation can act as a transparent layer between the datatypes of your application configuration (boolean, integers, floats, etc) and the text format of your config file.

```
configspec
-----------
The `validate` method checks members against an entry in the configspec. Your configspec therefore resembles your config file, with a check for every member.

In order to perform validation you need a `Validator` object. This has several useful built-in check functions. You can also create your own custom functions and register them with your Validator object.

Each check is the name of one of these functions, including any parameters and keyword arguments. The configspecs look like function calls, and they map to function calls.

The basic datatypes that an un-extended Validator can test for are:

* boolean values (True and False)
* integers (including minimum and maximum values)
* floats (including min and max)
* strings (including min and max length)
* IP addresses (v4 only)

It can also handle lists of these types and restrict a value to being one from a set of options.

An example configspec is going to look something like:

```
port = integer(0, 100)
user = string(max=25)
mode = option('quiet', 'loud', 'silent')
```

You can specify default values, and also have the same configspec applied to several sections. This is called `repeated sections`.

For full details on writing configspecs, please refer to the `validate.py documentation`.
.. important::

Your configspec is read by ConfigObj in the same way as a config file.

That means you can do interpolation *within* your configspec.

In order to allow this, checks in the 'DEFAULT' section (of the root level of your configspec) are *not* used.

If you want to use a configspec *without* interpolation being done in it you can create your configspec manually and switch off interpolation:

.. code-block:: python

   from configobj import ConfigObj

   configspec = ConfigObj(spec_filename, interpolation=False, list_values=False, _inspec=True)
   conf = ConfigObj(config_filename, configspec=configspec)

If you need to specify the encoding of your configspec, then you can pass in a ConfigObj instance as your configspec. When you read your configspec file, you *must* specify `\`list_values=False\``. If you need to support hashes in configspec values then you must also pass in `\`_inspec=True\``.

.. code-block:: python

   from configobj import ConfigObj
   configspec = ConfigObj(configspecfilename, encoding='UTF8', list_values=False, _inspec=True)
   config = ConfigObj(filename, configspec=configspec)

.. _validate.py documentation: http://www.voidspace.org.uk/python/validate.html

Type Conversion
---------------

By default, validation does type conversion. This means that if you specify `\`integer\`` as the check, then calling validate_ will actually change the value to an integer (so long as the check succeeds).

It also means that when you call the write_ method, the value will be converted back into a string using the `\`str\`` function.

To switch this off, and leave values as strings after validation, you need to set the stringify_ attribute to `\`False\``. If this is the case, attempting to
set a value to a non-string will raise an error.

Default Values
--------------

You can set a default value in your check. If the value is missing from the config file then this value will be used instead. This means that your user only has to supply values that differ from the defaults.

If you *don’t* supply a default then for a value to be missing is an error, and this will show in the `return value` from validate.

Additionally you can set the default to be `None`. This means the value will be set to `None` (the object) *whichever check is used*. (It will be set to `''` rather than `None` if `stringify_` is `False`). You can use this to easily implement optional values in your config files. ::

```python
port = integer(0, 100, default=80)
user = string(max=25, default=0)
mode = option('quiet', 'loud', 'silent', default='loud')
nick = string(default=None)
```

.. note::

Because the default goes through type conversion, it also has to pass the check.

Note that `default=None` is case sensitive.

List Values
~~~~~~~~~~

It's possible that you will want to specify a list as a default value. To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the `default` value. This makes checks look something like::

```python
checkname(default=list('val1', 'val2', 'val3'))
```

This works with all keyword arguments, but is most useful for default values.

Repeated Sections
----------------

Repeated sections are a way of specifying a configspec for a section that
should be applied to all unspecified subsections in the same section.

The easiest way of explaining this is to give an example. Suppose you have a config file that describes a dog. That dog has various attributes, but it can also have many fleas. You don't know in advance how many fleas there will be, or what they will be called, but you want each flea validated against the same configspec.

We can define a section called *fleas*. We want every flea in that section (every sub-section) to have the same configspec applied to it. We do this by defining a single section called `__many__`. ::

```py
[dog]
  name = string(default=Rover)
  age = float(0, 99, default=0)

[[fleas]]

[[__many__]]
  bloodsucker = boolean(default=True)
  children = integer(default=10000)
  size = option(small, tiny, micro, default=tiny)
```

Every flea on our dog will now be validated using the `__many__` configspec.

`__many__` sections can have sub-sections, including their own `__many__` sub-sections. Defaults work in the normal way in repeated sections.

Repeated Values
---------------

As well as using `__many__` to validate unspecified sections you can use it to validate values. For example, to specify that all values in a section should be integers::

```py
[section]
  __many__ = integer
```

If you want to use repeated values alongside repeated sections you can call one `__many__` and the other `___many___` (with three underscores).

Copy Mode
---------

Because you can specify default values in your configspec, you can use ConfigObj to write out default config files for your application.
However, normally values supplied from a default in a configspec are *not* written out by the ``write`` method.

To do this, you need to specify ``copy=True`` when you call validate. As well as not marking values as default, all the comments in the configspec file will be copied into your ConfigObj instance.

```python
from configobj import ConfigObj
from validate import Validator
vdt = Validator()
config = ConfigObj(configspec='default.ini')
config.filename = 'new_default.ini'
config.validate(vdt, copy=True)
config.write()
```

If you need to support hashes in the configspec values then you must create it with ``_inspec=True``. This has the side effect of switching off the parsing of inline comments, meaning that they won't be copied into the new config file. (ConfigObj syntax is slightly different from configspec syntax and the parser can't support both inline comments and hashes in configspec values.)

Validation and Interpolation
----------------------------

String interpolation and validation don't play well together. When validation changes type it sets the value. If the value uses interpolation, then the interpolation reference would normally be overwritten. Calling ``write`` would then use the absolute value and the interpolation reference would be lost.

As a compromise - if the value is unchanged by validation then it is not reset. This means strings that pass through validation unmodified will not be overwritten. If validation changes type - the value has to be overwritten, and any interpolation references are lost.

Extra Values
------------

After validation the ``extra_values`` member of every section that is listed in the configspec will be populated with the names of members that are in the config file but not in the configspec.

If you are reporting configuration errors to your user this information can be useful, for example some missing entries may be due to misspelt entries that
appear as extra values.

See the get_extra_values_ function

New in ConfigObj 4.7.0.

SimpleVal
---------

You may not need a full validation process, but still want to check if all the expected values are present.

Provided as part of the ConfigObj module is the ``SimpleVal`` object. This has a dummy `test` method that always passes.

The only reason a test will fail is if the value is missing. The return value from `validate` will either be `True`, meaning all present, or a dictionary with `False` for all missing values/sections.

To use it, you still need to pass in a valid configspec when you create the ConfigObj, but just set all the values to `''`. Then create an instance of ``SimpleVal`` and pass it to the `validate` method.

As a trivial example if you had the following config file::

    # config file for an application
    port = 80
    protocol = http
    domain = voidspace
    top_level_domain = org.uk

You would write the following configspec::

    port = ''
    protocol = ''
    domain = ''
    top_level_domain = ''

.. code-block:: python

    config = ConfigObj(filename, configspec=configspec)
    val = SimpleVal()
    test = config.validate(val)
    if test == True:
        print 'All values present.'
elif test == False:
    print 'No values present!'  
else:
    for entry in test:
        if test[entry] == False:
            print '"%s" missing.' % entry

Empty values
============

Many config files from other applications allow empty values. As of version 4.3.0, ConfigObj will read these as an empty string.

A new option/attribute has been added (`write_empty_values`) to allow ConfigObj to write empty strings as empty values.

.. code-block:: python

    from configobj import ConfigObj
    cfg = ""
    key =
    key2 = # a comment
    ".splitlines()
    config = ConfigObj(cfg)
    print config
    ConfigObj({'key': '', 'key2': ''})

    config.write_empty_values = True
    for line in config.write():
        print line

    key =
    key2 = # a comment

unrepr mode
============

The `unrepr` option allows you to store and retrieve the basic Python data-types using config files. It has to use a slightly different syntax to normal ConfigObj files. Unsurprisingly it uses Python syntax.

This means that lists are different (they are surrounded by square brackets), and strings *must* be quoted.

The types that `unrepr` can work with are:
strings, lists, tuples
None, True, False
dictionaries, integers, floats
longs and complex numbers

You can't store classes, types or instances.

``unrepr`` uses `repr(object)` to write out values, so it currently *doesn't* check that you are writing valid objects. If you attempt to read an unsupported value, ConfigObj will raise a `configobj.UnknownType` exception.

Values that are triple quoted cased. The triple quotes are removed *before* converting. This means that you can use triple quotes to write dictionaries over several lines in your config files. They won't be written like this though.

If you are writing config files by hand, for use with ``unrepr``, you should be aware of the following differences from normal ConfigObj syntax:

| List : `['A List', 'With', 'Strings']` |
| Strings : ``"Must be quoted."``
| Backslash : ``"The backslash must be escaped \
``

These all follow normal Python syntax.

In unrepr mode *inline comments* are not saved. This is because lines are parsed using the `compiler package <http://docs.python.org/lib/compiler.html>`_, which discards comments.

String Interpolation
====================

.. note::

String interpolation can slow down (slightly) the fetching of values from your config object. If you aren't using interpolation and it is performance critical then create your instance with ``interpolation=False``.

ConfigObj allows string interpolation *similar* to the way `ConfigParser` or `string.Template` work. The value of the `interpolation` attribute determines which style of interpolation you want to use. Valid values are "ConfigParser" or "Template" (case-insensitive, so "configparser" and "template" will also work). For backwards compatibility reasons, the value "True" is also a valid value for the "interpolation" attribute, and will select "ConfigParser"-style interpolation. At some undetermined point in the future, that default *may* change to "Template"-style interpolation.
For `ConfigParser`-style interpolation, you specify a value to be substituted by including ``%(name)s`` in the value.

For `Template`-style interpolation, you specify a value to be substituted by including ``${name}`` in the value. Alternately, if `name` is a valid Python identifier (i.e., is composed of nothing but alphanumeric characters, plus the underscore character), then the braces are optional and the value can be written as ``$name``.

Note that `ConfigParser`-style interpolation and `Template`-style interpolation are mutually exclusive; you cannot have a configuration file that's a mix of one or the other. Pick one and stick to it. `Template`-style interpolation is simpler to read and write by hand, and is recommended if you don't have a particular reason to use `ConfigParser`-style.

Interpolation checks first the current section to see if `name` is the key to a value. (`name` is case sensitive).

If it doesn't find it, next it checks the 'DEFAULT' sub-section of the current section.

If it still doesn't find it, it moves on to check the parent section and the parent section's 'DEFAULT' subsection, and so on all the way up to the main section.

If the value specified isn't found in any of these locations, then a `MissingInterpolationOption` error is raised (a subclass of `ConfigObjError`).

If it is found then the returned value is also checked for substitutions. This allows you to make up compound values (for example directory paths) that use more than one default value. It also means it's possible to create circular references. If there are any circular references which would cause an infinite interpolation loop, an `InterpolationLoopError` is raised.

Both of these errors are subclasses of `InterpolationError`, which is a subclass of `ConfigObjError`.

String interpolation and validation don't play well together. This is because validation overwrites values - and so may erase the interpolation references. See `Validation and Interpolation`_. (This can only happen if validation has to *change* the value).

New in ConfigObj 4.7.0: String interpolation is now done in members of list values.
String Interpolation and List Values
----------------------------------

Since version 4.7 string interpolation is done on string members of list values. If interpolation changes any members of the list then what you get back is a *copy* of the list rather than the original list.

This makes fetching list values slightly slower when interpolation is on, it also means that if you mutate the list changes won't be reflected in the original list:

```
>>> c = ConfigObj()
>>> c['foo'] = 'boo'
>>> c['bar'] = ['%(foo)s']
>>> c['bar']
['boo']
>>> c['bar'].append('fish')
>>> c['bar']
['boo']
```

Instead of mutating the list you must create a new list and reassign it.

Comments
========

Any line that starts with a `#`, possibly preceded by whitespace, is a comment.

If a config file starts with comments then these are preserved as the `initial_comment`.

If a config file ends with comments then these are preserved as the `final_comment`.

Every key or section marker may have lines of comments immediately above it. These are saved as the ```comments``` attribute of the section. Each member is a list of lines.

You can also have a comment inline with a value. These are saved as the ```inline_comments``` attribute of the section, with one entry per member of the section.

Subsections (section markers in the config file) can also have comments.

See `Section Attributes` for more on these attributes.
These comments are all written back out by the `write` method.

```python
flatten_errors
```

Validation is a powerful way of checking that the values supplied by the user make sense.

The `validate` method returns a results dictionary that represents pass or fail for each value. This doesn't give you any information about why the check failed.

`flatten_errors` is an example function that turns a results dictionary into a flat list, that only contains values that failed.

`cfg` is the ConfigObj instance being checked, `res` is the results dictionary returned by `validate`.

It returns a list of keys that failed. Each member of the list is a tuple:

`([list of sections...], key, result)`

If `validate` was called with `preserve_errors=False` (the default) then `result` will always be `False`.

*list of sections* is a flattened list of sections that the key was found in.

If the section was missing then key will be `None`.

If the value (or section) was missing then `result` will be `False`.

If `validate` was called with `preserve_errors=True` and a value was present, but failed the check, then `result` will be the exception object returned. You can use this as a string that describes the failure.

For example:

*The value "3" is of the wrong type*.

Example Usage
-------------
The output from `flatten_errors` is a list of tuples.

Here is an example of how you could present this information to the user.

```python
vtor = validate.Validator()
# ini is your config file - cs is the configspec
cfg = ConfigObj(ini, configspec=cs)
res = cfg.validate(vtor, preserve_errors=True)
for entry in flatten_errors(cfg, res):
    # each entry is a tuple
    section_list, key, error = entry
    if key is not None:
        section_list.append(key)
    else:
        section_list.append('[missing section]')
    section_string = ', '.join(section_list)
    if error == False:
        error = 'Missing value or section.'
    print section_string, ' = ', error
```

get_extra_values

```
.. code-block:: python

    def get_extra_values(conf)

New in ConfigObj 4.7.0.

Find all the values and sections not in the configspec from a validated ConfigObj.

``get_extra_values`` returns a list of tuples where each tuple represents either an extra section, or an extra value.

The tuples contain two values, a tuple representing the section the value is in and the name of the extra values. For extra values in the top level section the first member will be an empty tuple. For values in the `foo` section the first member will be `'(foo)'`. For members in the `bar` subsection of the `foo` section the first member will be `'(foo', 'bar')`.

Extra sections will only have one entry. Values and subsections inside
an extra section aren't listed separately.

NOTE: If you call `get_extra_values` on a ConfigObj instance that hasn't been validated it will return an empty list.

Example Usage

-------------

The output from `get_extra_values` is a list of tuples.

Here is an example of how you could present this information to the user.

.. code-block:: python

    vtor = validate.Validator()
    # ini is your config file - cs is the configspec
    cfg = ConfigObj(ini, configspec=cs)
    cfg.validate(vtor, preserve_errors=True)

    for sections, name in get_extra_values(cfg):
        # this code gets the extra values themselves
        the_section = cfg
        for section in sections:
            the_section = cfg[section]

        # the_value may be a section or a value
        the_value = the_section[name]

        section_or_value = 'value
        if isinstance(the_value, dict):
            # Sections are subclasses of dict
            section_or_value = 'section'

        section_string = ', '.join(sections) or "top level"
        print 'Extra entry in section: %s. Entry %r is a %s' % (section_string, name, section_or_value)

CREDITS

======

ConfigObj 4 is written by (and copyright) `Michael Foord` and `Nicola Larosa`.

Particularly thanks to Nicola Larosa for help on the config file spec, the validation system and the doctests.
*validate.py* was originally written by Michael Foord and Mark Andrews.

Thanks to many others for input, patches and bugfixes.

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=======

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Of course if it does, let us know and we'll fix the problem so it doesn't happen to anyone else::

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.. _BSD License: http://www.voidspace.org.uk/python/license.shtml

TODO
=====

Better support for configuration from multiple files, including tracking *where* the original file came from and writing changes to the correct file.

Make ``newline`` a keyword argument (as well as an attribute)?

``UTF16`` encoded files, when returned as a list of lines, will have the BOM at the start of every line. Should this be removed from all but the first line?

Option to set warning type for unicode decode? (Defaults to strict).

A method to optionally remove uniform indentation from multiline values. (do as an example of using ``walk`` - along with string-escape)

Should the results dictionary from validate be an ordered dictionary if `odict <http://www.voidspace.org.uk/python/odict.html>`_ is available?

Implement some of the sequence methods (which include slicing) from the newer `odict`?

Preserve line numbers of values (and possibly the original text of each value).

ISSUES
======

.. note::

    Please file any bug reports to `Michael Foord`_ or the `ConfigObj`_ `Mailing List`_

There is currently no way to specify the encoding of a configspec file.

As a consequence of the changes to configspec handling in version 4.6.0, when you create a ConfigObj instance and provide a configspec, the configspec attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the configspec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspecs I had to turn off the parsing of inline comments in
configsps. This will only affect you if you are using `copy=True` when validating and expecting inline comments to be copied from the configspec into the ConfigObj instance (all other comments will be copied as usual).

If you *create* the configspec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in `__inspec=True` to the constructor to allow hashes in values. This is the magic that switches off inline comment parsing.

When using `copy` mode for validation, it won't copy `DEFAULT` sections. This is so that you *can* use interpolation in configspec files. This is probably true even if interpolation is off in the configspec.

You can't have a keyword with the same name as a section (in the same section). They are both dictionary keys - so they would overlap.

ConfigObj doesn't quote and unquote values if `list_values=False`. This means that leading or trailing whitespace in values will be lost when writing. (Unless you manually quote).

Interpolation checks first the current section, then the 'DEFAULT' subsection of the current section, before moving on to the current section's parent and so on up the tree.

Does it matter that we don't support the `:' divider, which is supported by `ConfigParser`?

String interpolation and validation don't play well together. When validation changes type it sets the value. This will correctly fetch the value using interpolation - but then overwrite the interpolation reference. If the value is unchanged by validation (it's a string) - but other types will be.

CHANGELOG
==========

This is an abbreviated changelog showing the major releases up to version 4.
From version 4 it lists all releases and changes.

2010/02/27 - Version 4.7.2
---------------------------

* BUGFIX: Restore Python 2.3 compatibility
* BUGFIX: Members that were lists were being returned as copies due to interpolation introduced in 4.7. Lists are now only copies if interpolation changes a list member.
* BUGFIX: `pop` now does interpolation in list values as well.
* BUGFIX: where interpolation matches a section name rather than a value it is
  ignored instead of raising an exception on fetching the item.
* BUGFIX: values that use interpolation to reference members that don't exist can
  now be repr'd.
* BUGFIX: Fix to avoid writing `\r\r\n` on Windows when given a file opened in
  text write mode (`w`).

See `String Interpolation and List Values` for information about the problem with lists and interpolation.

2010/02/06 - Version 4.7.1
--------------------------

* Fix bug in options deprecation warning added in 4.7.0

2010/01/09 - Version 4.7.0
--------------------------

* Minimum supported version of Python is now 2.3
* ~25% performance improvement thanks to Christian Heimes
* String interpolation now works in list value members
* After validation any additional entries not in the configspec are listed in
  the `extra_values` section member
* Addition of the `get_extra_values` function for finding all extra values
  in a validated ConfigObj instance
* Deprecated the use of the `options` dictionary in the ConfigObj constructor
  and added explicit keyword arguments instead. Use `\*\*options` if you want
  to initialise a ConfigObj instance from a dictionary
* Constructing a ConfigObj from an existing ConfigObj instance now preserves
  the order of values and sections from the original instance in the new one
* BUGFIX: Checks that failed validation would not populate `default_values` and
  `restore_default_value` wouldn't work for those entries
* BUGFIX: clear() now clears 'defaults'
* BUGFIX: empty values in list values were accidentally valid syntax. They now
  raise a `ParseError`. e.g. "value = 1, , 2"
* BUGFIX: Change to the result of a call to `validate` when `preserve_errors`
  is True. Previously sections where *all* values failed validation would
  return False for the section rather than preserving the errors. False will
  now only be returned for a section if it is missing
* Distribution includes version 1.0.1 of validate.py
* Removed __revision__ and __docformat__

2009/04/13 - Version 4.6.0
--------------------------
* Pickling of ConfigObj instances now supported (thanks to Christian Heimes)
* Hashes in config specs are now allowed (see note below)
* Replaced use of hasattr (which can swallow exceptions) with getattr
* __many__ in config specs can refer to scalars (ordinary values) as well as sections
* You can use ___many___ (three underscores!) where you want to use __many__ as well
* You can now have normal sections inside config spec sections that use ___many___
* You can now create an empty ConfigObj with a config spec, programmatically set values and then validate
* A section that was supplied as a value (or vice-versa) in the actual config file would cause an exception during validation (the config file is still broken of course, but it is now handled gracefully)
* Added `as_list` method
* Removed the deprecated `istrue`, `encode` and `decode` methods
* Running test_configobj.py now also runs the doctests in the configobj module

As a consequence of the changes to config spec handling, when you create a ConfigObj instance and provide a config spec, the config spec attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the config spec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in config specs I had to turn off the parsing of inline comments in config specs. This will only affect you if you are using `"copy=True"` when validating and expecting inline comments to be copied from the config spec into the ConfigObj instance (all other comments will be copied as usual).

If you *create* the config spec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in `"_inspec=True"` to the constructor to allow hashes in values.
This is the magic that switches off inline comment parsing.

2008/06/27 - Version 4.5.3
--------------------------

BUGFIX: fixed a problem with `"copy=True"` when validating with config specs that use `"__many__"` sections.

2008/02/05 - Version 4.5.2
--------------------------

Distribution updated to include version 0.3.2 of validate_. This means that `"None"` as a default value in config specs works.

2008/02/05 - Version 4.5.1
--------------------------

Distribution updated to include version 0.3.1 of validate_. This means that Unicode config specs now work.
2008/02/05 - Version 4.5.0
--------------------------

ConfigObj will now guarantee that files will be written terminated with a newline.

ConfigObj will no longer attempt to import the `validate` module, until/unless you call `ConfigObj.validate` with `preserve_errors=True`. This makes it faster to import.

New methods `restore_default` and `restore_defaults`. `restore_default` resets an entry to its default value (and returns that value). `restore_defaults` resets all entries to their default value. It doesn't modify entries without a default value. You must have validated a ConfigObj (which populates the `default_values` dictionary) before calling these methods.

BUGFIX: Proper quoting of keys, values and list values that contain hashes (when writing). When `list_values=False`, values containing hashes are triple quoted.

Added the `reload` method. This reloads a ConfigObj from file. If the filename attribute is not set then a `ReloadError` (a new exception inheriting from `IOError`) is raised.

BUGFIX: Files are read in with `rb` mode, so that native/non-native line endings work!

Minor efficiency improvement in `unrepr` mode.

Added missing docstrings for some overridden dictionary methods.

Added the `reset` method. This restores a ConfigObj to a freshly created state.

Removed old CHANGELOG file.

2007/02/04 - Version 4.4.0
--------------------------

Official release of 4.4.0

2006/12/17 - Version 4.3.3-alpha4
--------------------------

By Nicola Larosa

Allowed arbitrary indentation in the `indent_type` parameter, removed the
``NUM_INDENT_SPACES`` and ``MAX_INTERPOL_DEPTH`` (a leftover) constants, added indentation tests (including another docutils workaround, sigh), updated the documentation.

By Michael Foord

Made the import of ``compiler`` conditional so that ``ConfigObj`` can be used with `IronPython <http://www.codeplex.com/IronPython>`_.

2006/12/17 - Version 4.3.3-alpha3
---------------------------------

By Nicola Larosa

Added a missing ``self`` in the _handle_comment method and a related test, per Sourceforge bug #1523975.

2006/12/09 - Version 4.3.3-alpha2
---------------------------------

By Nicola Larosa

Changed interpolation search strategy, based on this patch by Robin Munn: http://sourceforge.net/mailarchive/message.php?msg_id=17125993

2006/12/09 - Version 4.3.3-alpha1
---------------------------------

By Nicola Larosa

Added Template-style interpolation, with tests, based on this patch by Robin Munn: http://sourceforge.net/mailarchive/message.php?msg_id=17125991 (awful archives, bad Sourceforge, bad).

2006/06/04 - Version 4.3.2
------------------------

Changed error handling, if parsing finds a single error then that error will be re-raised. That error will still have an ``errors`` and a ``config`` attribute.

Fixed bug where `\n` terminated files could be truncated.

Bugfix in ``unrepr`` mode, it couldn't handle `\` in values. (Thanks to
Philippe Normand for the report.

As a consequence of this fix, ConfigObj doesn't now keep inline comments in `unrepr` mode. This is because the parser in the `compiler package` doesn't keep comments.

Error messages are now more useful. They tell you the number of parsing errors and the line number of the first error. (In the case of multiple errors.)

Line numbers in exceptions now start at 1, not 0.

Errors in `unrepr` mode are now handled the same way as in the normal mode. The errors stored will be an `UnreprError`.

2006/04/29 - Version 4.3.1

--------------------------

Added `validate.py` back into `configobj.zip`. (Thanks to Stewart Midwinter)

Updated to `validate.py` 0.2.2.

Preserve tuples when calling the `dict` method. (Thanks to Gustavo Niemeyer.)

Changed `__repr__` to return a string that contains `ConfigObj({ ... })`.

Change so that an options dictionary isn't modified by passing it to ConfigObj. (Thanks to Artarious.)

Added ability to handle negative integers in `unrepr`. (Thanks to Kevin Dangoor.)

2006/03/24 - Version 4.3.0

--------------------------

Moved the tests and the CHANGETLOG (etc) into a separate file. This has reduced the size of `configobj.py` by about 40%.

Added the `unrepr` mode to reading and writing config files. Thanks to Kevin Dangoor for this suggestion.

Empty values are now valid syntax. They are read as an empty string `''`. (`key = '',` or `key = # comment`)`

``validate`` now honours the order of the configsprint.
Added the `copy` mode to validate. Thanks to Louis Cordier for this suggestion.

Fixed bug where files written on windows could be given `
\r\n\n` line terminators.

Fixed bug where last occurring comment line could be interpreted as the final comment if the last line isn't terminated.

Fixed bug where nested list values would be flattened when `write` is called. Now sub-lists have a string representation written instead.

Deprecated `encode` and `decode` methods instead.

You can now pass in a ConfigObj instance as a configspec (remember to read the configspec file using `list_values=False`).

Sorted footnotes in the docs.

2006/02/16 - Version 4.2.0

--------------------

Removed `BOM_UTF8` from `__all__`.

The `BOM` attribute has become a boolean. (Defaults to `False`). It is *only* `True` for the `UTF16/UTF8` encodings.

File like objects no longer need a `seek` attribute.

Full unicode support added. New options/attributes `encoding`, `default_encoding`.

ConfigObj no longer keeps a reference to file like objects. Instead the `write` method takes a file like object as an optional argument. (Which will be used in preference of the `filename` attribute if that exists as well.)

utf16 files decoded to unicode.

If `BOM` is `True`, but no encoding specified, then the utf8 BOM is written out at the start of the file. (It will normally only be `True` if the utf8 BOM was found when the file was read.)

Thanks to Aaron Bentley for help and testing on the unicode issues.

File paths are *not* converted to absolute paths, relative paths will remain relative as the `filename` attribute.
Fixed bug where `final_comment` wasn't returned if `write` is returning a list of lines.

Deprecated `istrue`, replaced it with `as_bool`.

Added `as_int` and `as_float`.

2005/12/14 - Version 4.1.0
---------------------------------

Added `merge`, a recursive update.

Added `preserve_errors` to `validate` and the `flatten_errors` example function.

Thanks to Matthew Brett for suggestions and helping me iron out bugs.

Fixed bug where a config file is *all* comment, the comment will now be `initial_comment` rather than `final_comment`.

Validation no longer done on the 'DEFAULT' section (only in the root level). This allows interpolation in configs.

Also use the new list syntax in validate_ 0.2.1. (For configs).

2005/12/02 - Version 4.0.2
---------------------------------

Fixed bug in `create_empty`. Thanks to Paul Jimenez for the report.

2005/11/05 - Version 4.0.1
---------------------------------

Fixed bug in `Section.walk` when transforming names as well as values.

Added the `istrue` method. (Fetches the boolean equivalent of a string value).

Fixed `list_values=False` - they are now only quoted/unquoted if they are multiline values.

List values are written as `item, item` rather than `item,item`.
2005/10/17 - Version 4.0.0
------------------------

**ConfigObj 4.0.0 Final**

Fixed bug in `setdefault`. When creating a new section with setdefault the reference returned would be to the dictionary passed in *not* to the new section. Bug fixed and behaviour documented.

Obscure typo/bug fixed in ``write``. Wouldn't have affected anyone though.

2005/09/09 - Version 4.0.0 beta 5
-----------------------------

Removed `PositionError``.

Allowed quotes around keys as documented.

Fixed bug with commas in comments. (matched as a list value)

2005/09/07 - Version 4.0.0 beta 4
-------------------------------

Fixed bug in `__delitem__`. Deleting an item no longer deletes the `inline_comments` attribute.

Fixed bug in initialising ConfigObj from a ConfigObj.

Changed the mailing list address.

2005/08/28 - Version 4.0.0 beta 3
-------------------------------

Interpolation is switched off before writing out files.

Fixed bug in handling `StringIO` instances. (Thanks to report from Gustavo Niemeyer.)

Moved the doctests from the `__init__` method to a separate function. (For the sake of IDE calltips).

2005/08/25 - Version 4.0.0 beta 2
-------------------------------
Amendments to *validate.py*.

First public release.

2005/08/21 - Version 4.0.0 beta 1
---------------------------------
Reads nested subsections to any depth.
Multiline values.
Simplified options and methods.
New list syntax.
Faster, smaller, and better parser.
Validation greatly improved. Includes:

* type conversion
* default values
* repeated sections

Improved error handling.

Plus lots of other improvements.

2004/05/24 - Version 3.0.0
--------------------------
Several incompatible changes: another major overhaul and change. (Lots of improvements though).

Added support for standard config files with sections. This has an entirely new interface: each section is a dictionary of values.

Changed the update method to be called writein: update clashes with a dict method.

Made various attributes keyword arguments, added several.

Configspecs and orderlists have changed a great deal.

Removed support for adding dictionaries: use update instead.

Now subclasses a new class called caselessDict. This should add various
dictionary methods that could have caused errors before.

It also preserves the original casing of keywords when writing them back out.

Comments are also saved using a `caselessDict`.

Using a non-string key will now raise a `TypeError` rather than converting the key.

Added an exceptions keyword for *much* better handling of errors.

Made `createempty=False` the default.

Now checks `indict` *and* any keyword args. Keyword args take precedence over `indict`.

``', ':', '=', ','`` and ``\t`` are now all valid dividers where the keyword is unquoted.

`ConfigObj` now does no type checking against `configspec` when you set items.

delete and add methods removed (they were unnecessary).

Docs rewritten to include all this gumph and more; actually ConfigObj is *really* easy to use.

Support for `stdout` was removed.

A few new methods added.

Charmap is now incorporated into `ConfigObj`.

2004/03/14 - Version 2.0.0 beta
-----------------------------

Re-written it to subclass dict. My first forays into inheritance and operator overloading.

The config object now behaves like a dictionary.

I've completely broken the interface, but I don't think anyone was really using it anyway.

This new version is much more 'classy'.

It will also read straight from/to a filename and completely parse a config file without you *having* to supply a config spec.
Uses listparse, so can handle nested list items as values.

No longer has getval and setval methods: use normal dictionary methods, or add and delete.

2004/01/29 - Version 1.0.5
--------------------------

Version 1.0.5 has a couple of bugfixes as well as a couple of useful additions over previous versions.

Since 1.0.0 the buildconfig function has been moved into this distribution, and the methods reset, verify, getval and setval have been added.

A couple of bugs have been fixed.

Origins
-------

ConfigObj originated in a set of functions for reading config files in the `atlantibots <http://www.voidspace.org.uk/atlantibots/>`_ project. The original functions were written by Rob McNeur.

Footnotes
=========

.. [#] And if you discover any bugs, let us know. We'll fix them quickly.

.. [#] If you specify a filename that doesn't exist, ConfigObj will assume you are creating a new one. See the *create_empty* and *file_error* options.

.. [#] They can be byte strings (*ordinary* strings) or Unicode.

.. [#] Except we don't support the RFC822 style line continuations, nor ':' as a divider.

.. [#] This is a change in ConfigObj 4.2.0. Note that ConfigObj doesn't call the seek method of any file like object you pass in. You may want to call ```file_object.seek(0)``` yourself, first.

.. [#] A side effect of this is that it enables you to copy a ConfigObj:
.. code-block:: python

    # only copies members
    # not attributes/comments
    config2 = ConfigObj(config1)

Since ConfigObj 4.7.0 the order of members and sections will be preserved when copying a ConfigObj instance.

.. [#] Other than lists of strings.

.. [#] The exception is if it detects a ``UTF16`` encoded file which it must decode before parsing.

.. [#] The method signature shows that this method takes two arguments. The second is the section to be written. This is because the `write` method is called recursively.

.. [#] The dict method doesn't actually use the deepcopy mechanism. This means if you add nested lists (etc) to your ConfigObj, then the dictionary returned by dict may contain some references. For all *normal* ConfigObjs it will return a deepcopy.

.. [#] Passing ``(section, key)`` rather than ``(value, key)`` allows you to change the value by setting `section[key] = newval`. It also gives you access to the *rename* method of the section.

.. [#] Minimum required version of *validate.py* 0.2.0.

.. _listquote: http://www.voidspace.org.uk/python/modules.shtml#listquote
.. _Nicola Larosa: http://www.teknico.net

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* /opt/cola/permits/1152168995_1654022851.4006877/0/hk2-locator-2-4-0-b34-sources-3.jar/org/jvnet/hk2/internal/ConstructorInterceptorHandler.java
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* /opt/cola/permits/1152168995_1654022851.4006877/0/hk2-locator-2-4-0-b34-sources-3.jar/org/jvnet/hk2/internal/PopulatorImpl.java

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*/opt/cola/permits/1152168995_1654022851.4006877/0/hk2-locator-2-4-0-b34-sources-3-
jar/org/jvnet/hk2/internal/TopicImpl.java
*/opt/cola/permits/1152168995_1654022851.4006877/0/hk2-locator-2-4-0-b34-sources-3-
jar/org/jvnet/hk2/internal/MethodInterceptorInvocationHandler.java
*/opt/cola/permits/1152168995_1654022851.4006877/0/hk2-locator-2-4-0-b34-sources-3-
jar/org/jvnet/hk2/internal/ConstructorActionImpl.java
*/opt/cola/permits/1152168995_1654022851.4006877/0/hk2-locator-2-4-0-b34-sources-3-
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  jar/org/jvnet/hk2/internal/PerLocatorUtilities.java
* /opt/cola/permits/1152168995_1654022851.4006877/0/hk2-locator-2-4-0-b34-sources-3-
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/* $Id: PluginConfigurationException.java 476205 2006-11-17 16:43:10Z dennisl $ */
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/* $Id: PluginContext.java 476312 2006-11-17 20:59:09Z rahul $ */
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/* $Id: PluginAssertionFailure.java 476205 2006-11-17 16:43:10Z dennisl $ */

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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/parser/XercesParser.java

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jar/org/wildfly/openssl/OpenSSLMessages.properties

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 */
/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 *
 * @return an array containing all of the elements in this deque
 */

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* /opt/cola/permits/1110676878_1654023050.3673713/0/wildfly-openssl-java-1-0-6-final-sources-1-jar/META-INF/maven/org.wildfly.openssl/wildfly-openssl-java/pom.xml

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1.2109 perl-pod-simple 3.28-4.el7

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=head1 NAME

Pod::Simple - framework for parsing Pod

=head1 SYNOPSIS

TODO
Pod::Simple is a Perl library for parsing text in the Pod ("plain old
documentation") markup language that is typically used for writing
documentation for Perl and for Perl modules. The Pod format is explained
L<perlpod>; the most common formatter is called C<perldoc>.

Be sure to read L</ENCODING> if your Pod contains non-ASCII characters.

Pod formatters can use Pod::Simple to parse Pod documents and render them into
plain text, HTML, or any number of other formats. Typically, such formatters
will be subclasses of Pod::Simple, and so they will inherit its methods, like
C<pParse_file>.

If you're reading this document just because you have a Pod-processing
subclass that you want to use, this document (plus the documentation for the
subclass) is probably all you need to read.

If you're reading this document because you want to write a formatter
subclass, continue reading it and then read L<Pod::Simple::Subclasse>, and
then possibly even read L<perlpodspe> (some of which is for parser-writers,
but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>-new(); >>

This returns a new parser object, where I<C<SomeClass>> is a subclass
of Pod::Simple.

=item C<< $parser->output_fh( *OUT ); >>

This sets the filehandle that C<$parser>`s output will be written to.
You can pass C<*STDOUT>, otherwise you should probably do something
like this:

  my $outfile = "output.txt";
  open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
  $parser->output_fh(*TXTOUT);

...before you call one of the C<< $parser->parse_I<whatever> >> methods.

=item C<< $parser->output_string( \$somestring ); >>

This sets the string that C<$parser>`s output will be sent to,
instead of any filehandle.

=item C<< $parser->parse_file( I<$some_filename> ); >>

=item C<< $parser->parse_file( *INPUT_FH ); >>

This reads the Pod content of the file (or filehandle) that you specify, and processes it with that C<$parser> object, according to however C<$parser>’s class works, and according to whatever parser options you have set up for this C<$parser> object.

=item C<< $parser->parse_string_document( I<$all_content> ); >>

This works just like C<parse_file> except that it reads the Pod content not from a file, but from a string that you have already in memory.

=item C<< $parser->parse_lines( I<...@lines...>, undef ); >>

This processes the lines in C<@lines> (where each list item must be a defined value, and must contain exactly one line of content -- so no items like C<"foo\nbar"> are allowed). The final C<undef> is used to indicate the end of document being parsed.

The other C<parser_I<whatever>> methods are meant to be called only once per C<parser> object; but C<parse_lines> can be called as many times per C<parser> object as you want, as long as the last call (and only the last call) ends with an C<undef> value.

=item C<< $parser->content_seen >>

This returns true only if there has been any real content seen for this document. Returns false in cases where the document contains content, but does not make use of any Pod markup.

=item C<< I<SomeClass>-filter( I<$filename> ); >>

=item C<< I<SomeClass>-filter( I<*INPUT_FH> ); >>

=item C<< I<SomeClass>-filter( I<$document_content> ); >>

This is a shortcut method for creating a new parser object, setting the output handle to STDOUT, and then processing the specified file (or filehandle, or in-memory document). This is handy for one-liners like this:
SECONDARY METHODS

Some of these methods might be of interest to general users, as well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods read the attribute's value with $value = $parser-><attribute>
and set the attribute's value with $parser-><attribute>(<newvalue>). For each accessor, I typically only mention one syntax or another, based on which I think you are actually most likely to use.

parse_characters

The Pod parser normally expects to read octets and to convert those octets to characters based on the $encoding declaration in the Pod source. Set this option to a true value to indicate that the Pod source is already a Perl character stream. This tells the parser to ignore any $encoding command and to skip all the code paths involving decoding octets.

no_whining

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.

no_errata_section

If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.
If you set this attribute to a true value, it will send reports of parsing errors to STDERR. By default, this attribute's value is false, meaning that no output is sent to STDERR.

Setting $complain_stderr also sets $no_errata_section.

This returns the filename that this parser object was set to read from.

This returns true if $parser has read from a source, and has seen Pod content in it.

This returns true if $parser has read from a source, and come to the end of that source.

The perlpod spec for a Verbatim paragraph is "It should be reproduced exactly...", which means that the whitespace you've used to indent your verbatim blocks will be preserved in the output. This can be annoying for outputs such as HTML, where that whitespace will remain in front of every line. It's an unfortunate case where syntax is turned into semantics.

If the POD your parsing adheres to a consistent indentation policy, you can have such indentation stripped from the beginning of every line of your verbatim blocks. This method tells Pod::Simple what to strip. For two-space indents, you'd use:

$parser->strip_verbatim_indent( " ");

For tab indents, you'd use a tab character:

$parser->strip_verbatim_indent("\t");

If the POD is inconsistent about the indentation of verbatim blocks, but you have figured out a heuristic to determine how much a particular verbatim block is indented, you can pass a code reference instead. The code reference will be executed with one argument, an array reference of all the lines in the
verbatim block, and should return the value to be stripped from each line. For example, if you decide that you’re fine to use the first line of the verbatim block to set the standard for indentation of the rest of the block, you can look at the first line and return the appropriate value, like so:

$new->strip_verbatim_indent(sub {
    my $lines = shift;
    (my $indent = $lines->[0]) =~ s/\S.*//;
    return $indent;
});

If you’d rather treat each line individually, you can do that, too, by just transforming them in-place in the code reference and returning C<undef>. Say that you don’t want I<any> lines indented. You can do something like this:

$new->strip_verbatim_indent(sub {
    my $lines = shift;
    sub { s/^\s+// for @{ $lines },
        return undef;
    });

=back
=head1 TERTIARY METHODS

=over
=item C<< $parser->abandon_output_fh() >>X<abandon_output_fh>

Cancel output to the file handle. Any POD read by the C<$parser> is not effected.

=item C<< $parser->abandon_output_string() >>X<abandon_output_string>

Cancel output to the output string. Any POD read by the C<$parser> is not effected.

=item C<< $parser->accept_code( @codes ) >>X<accept_code>

Alias for L<< accept_codes >>.

=item C<< $parser->accept_codes( @codes ) >>X<accept_codes>

Allows C<$parser> to accept a list of L<perlpod/Formatting Codes>. This can be used to implement user-defined codes.

=item C<< $parser->accept_directive_as_data( @directives ) >>X<accept_directive_as_data>
Allows \$parser\ to accept a list of directives for data paragraphs. A directive is the label of a \L<perlpod/Command Paragraph>. A data paragraph is one delimited by C<< =begin//=for//=end >> directives. This can be used to implement user-defined directives.

\item \$parser->accept_directive_as_processed( @directives ) \xX<accept_directive_as_processed>

Allows \$parser\ to accept a list of directives for processed paragraphs. A directive is the label of a \L<perlpod/Command Paragraph>. A processed paragraph is also known as \L<perlpod/Ordinary Paragraph>. This can be used to implement user-defined directives.

\item \$parser->accept_directive_as_verbatim( @directives ) \xX<accept_directive_as_verbatim>

Allows \$parser\ to accept a list of directives for \L<perlpod/Verbatim Paragraph>. A directive is the label of a \L<perlpod/Command Paragraph>. This can be used to implement user-defined directives.

\item \$parser->accept_target( @targets ) \xX<accept_target>

Alias for L<< accept_targets >>.

\item \$parser->accept_target_as_text( @targets ) \xX<accept_target_as_text>

Alias for L<< accept_targets_as_text >>.

\item \$parser->accept_targets( @targets ) \xX<accept_targets>

Accepts targets for C<< =begin//=for//=end >> sections of the POD.

\item \$parser->accept_targets_as_text( @targets ) \xX<accept_targets_as_text>

Accepts targets for C<< =begin//=for//=end >> sections that should be parsed as POD. For details, see L<< perlpodspec/About Data Paragraphs >>.

\item \$parser->any_errata_seen() \xX<any_errata_seen>

Used to check if any errata was seen.

I<Example:>

die "too many errors\n" if $parser->any_errata_seen();

\item \$parser->detected_encoding() \xX<detected_encoding>

Return the encoding corresponding to C<< =encoding >>, but only if the encoding was recognized and handled.
=item C<< $parser->encoding() >> X<encoding>

Return encoding of the document, even if the encoding is not correctly handled.

=item C<< $parser->parse_from_file( $source, $to ) >> X<pause_from_file>

Parses from C<$source> file to C<$to> file. Similar to L<< Pod::Parser::parse_from_file >>.

=item C<< $parser->scream( @error_messages ) >> X<scream>

Log an error that can't be ignored.

=item C<< $parser->unaccept_code( @codes ) >> X<unaccept_code>

Alias for L<< unaccept_codes >>.

=item C<< $parser->unaccept_codes( @codes ) >> X<unaccept_codes>

Removes C<< @codes >> as valid codes for the parse.

=item C<< $parser->unaccept_directive( @directives ) >> X<unaccept_directive>

Alias for L<< unaccept_directives >>.

=item C<< $parser->unaccept_directives( @directives ) >> X<unaccept_directives>

Removes C<< @directives >> as valid directives for the parse.

=item C<< $parser->unaccept_target( @targets ) >> X<unaccept_target>

Alias for L<< unaccept_targets >>.

=item C<< $parser->unaccept_targets( @targets ) >> X<unaccept_targets>

Removes C<< @targets >> as valid targets for the parse.

=item C<< $parser->version_report() >> X<version_report>

Returns a string describing the version.

=item C<< $parser->whine( @error_messages ) >> X<whine>

Log an error unless C<< $parser->no_whining( TRUE ); >>.

=back
ENCODING

The Pod::Simple parser expects to read B<octets>. The parser will decode the octets into Perl's internal character string representation using the value of the C<encoding> declaration in the POD source.

If the POD source does not include an C<encoding> declaration, the parser will attempt to guess the encoding (selecting one of UTF-8 or Latin-1) by examining the first non-ASCII bytes and applying the heuristic described in L<perlpodspec>.

If you set the C<p Parsing_characters> option to a true value the parser will expect characters rather than octets; will ignore any C<encoding>; and will make no attempt to decode the input.

CAVEATS

This is just a beta release -- there are a good number of things still left to do. Notably, support for EBCDIC platforms is still half-done, untested.

SEE ALSO

L<Pod::Simple::Subclassing>
L<perlpod|perlpod>
L<perlpodspec|perlpodspec>
L<Pod::Escapes|Pod::Escapes>
L<perldoc>

SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sbrke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <d wheeler@cpan.org>

=back

Documentation has been contributed by:

=over

=item * Gabor Szabo <szabgab@gmail.com>

=item * Shawn H Corey <SHCOREY at cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-8lm8aDDs/Pod-Simple-3.28/lib/Pod/Simple.pod

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=head1 NAME

Pod::Simple::HTMLBatch - convert several Pod files to several HTML files
=head1 SYNOPSIS
perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

=head1 DESCRIPTION
This module is used for running batch-conversions of a lot of HTML
documents
This class is NOT a subclass of Pod::Simple::HTML
(nor of bad old Pod::Html) -- although it uses
Pod::Simple::HTML for doing the conversion of each document.
The normal use of this class is like so:
use Pod::Simple::HTMLBatch;
my $batchconv = Pod::Simple::HTMLBatch->new;
$batchconv->some_option( some_value );
$batchconv->some_other_option( some_other_value );
$batchconv->batch_convert( \@search_dirs, $output_dir );
=head2 FROM THE COMMAND LINE
Note that this class also provides
(but does not export) the function Pod::Simple::HTMLBatch::go.
This is basically just a shortcut for C<<
Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>.
It's meant to be handy for calling from the command line.
However, the shortcut requires that you specify exactly two command-line
arguments, C<indirs> and C<outdir>.
Example:
% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
(to convert the pod from Perl's @INC
files under the directory ./out_html)
(Note that the command line there contains a literal atsign-I-N-C. This
is handled as a special case by batch_convert, in order to save you having
to enter the odd-looking "" as the first command-line parameter when you
mean "just use whatever's in @INC".)
Example:
% mkdir ../seekrut

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% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../seekrut
  (to convert the pod under the current dir into HTML
   files under the directory ./seekrut)

Example:

% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
  (to convert all pod from happydocs into the current directory)

=head1 MAIN METHODS

=over

=item $batchconv = Pod::Simple::HTMLBatch->new;

This TODO

=item $batchconv->batch_convert( $<indirs>, $<outdir> );

this TODO

=item $batchconv->batch_convert( undef , ...);

=item $batchconv->batch_convert( q[@INC] , ...);

These two values for $<indirs> specify that the normal Perl @INC

=item $batchconv->batch_convert( @dirs , ...);

This specifies that the input directories are the items in
the arrayref C<@dirs>.

=item $batchconv->batch_convert( "somedir" , ...);

This specifies that the director "somedir" is the input.
(This can be an absolute or relative path, it doesn't matter.)

A common value you might want would be just "." for the current
directory:

  $batchconv->batch_convert( "." , ...);

=item $batchconv->batch_convert( 'somedir:someother:also' , ...);
This specifies that you want the dirs "somedir", "someother", and "also" scanned, just as if you'd passed the arrayref
C<qw( somedir someother also)>). Note that a ":"-separator is normal under Unix, but Under MSWin, you'll need C<somedir;someother;also>
instead, since the pathsep on MSWin is ";" instead of ":". (And
I<that> is because ":" often comes up in paths, like
C<c:/perl/lib>.)

(Exactly what separator character should be used, is gotten from
C<$Config::Config{'path_sep'}>, via the L<Config> module.)

=item $batchconv->batch_convert( ... , undef );
This specifies that you want the HTML output to go into the current
directory.

(Note that a missing or undefined value means a different thing in
the first slot than in the second. That's so that C<batch_convert()> with
no arguments (or undef arguments) means "go from @INC, into
the current directory.)

=item $batchconv->batch_convert( ... , 'somedir' );
This specifies that you want the HTML output to go into the
directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

=back

Note that you can also call C<batch_convert> as a class method,
like so:

Pod::Simple::HTMLBatch->batch_convert( ... );
That is just short for this:

Pod::Simple::HTMLBatch-> new-> batch_convert(...);
That is, it runs a conversion with default options, for
whatever inputdirs and output dir you specify.

=head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything
on their own, but just alter the contents of the conversion object,
which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use for setting the accessor to a specific value). But you can also call each method with no parameters to get its current value. For example, C<< $self->contents_file() >> returns the current value of the contents_file attribute.

=item $batchconv->verbose( I<nonnegative_integer> );

This controls how verbose to be during batch conversion, as far as notes to STDOUT (or whatever is C<select>'d) about how the conversion is going. If 0, no progress information is printed. If 1 (the default value), some progress information is printed. Higher values print more information.

=item $batchconv->index( I<true-or-false> );

This controls whether or not each HTML page is liable to have a little table of contents at the top (which we call an "index" for historical reasons). This is true by default.

=item $batchconv->contents_file( I<filename> );

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html". If you set this to a false value, no contents file will be written.

=item $batchconv->contents_page_start( I<HTML_string> );

This specifies what string should be put at the beginning of the contents page. The default is a string more or less like this:

<html>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>

=item $batchconv->contents_page_end( I<HTML_string> );

This specifies what string should be put at the end of the contents page. The default is a string more or less like this:

<html>
=item $batchconv->add_css( $url );

TODO

=item $batchconv->add_javascript( $url );

TODO

=item $batchconv->css_flurry( $true-or-false );

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.
TODO: continue

=item $batchconv->javascript_flurry( $true-or-false );

If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.
TODO: continue

=item $batchconv->no_contents_links( $true-or-false );

TODO

=item $batchconv->html_render_class( $classname );

This sets what class is used for rendering the files.
The default is "Pod::Simple::HTML". If you set it to something else, it should probably be a subclass of Pod::Simple::HTML, and you should C<require> or C<use> that class so that's it's loaded before Pod::Simple::HTMLBatch tries loading it.

=item $batchconv->search_class( $classname );

This sets what class is used for searching for the files.
The default is "Pod::Simple::Search". If you set it to something else, it should probably be a subclass of Pod::Simple::Search, and you should C<require> or C<use> that class so that's it's loaded before
Pod::Simple::HTMLBatch tries loading it.

=back

=head1 NOTES ON CUSTOMIZATION

TODO

call add_css($someurl) to add stylesheet as alternate
call add_css($someurl,1) to add as primary stylesheet

call add_javascript

subclass Pod::Simple::HTML and set $batchconv->html_render_class to that classname
and maybe override
$page->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)
or maybe override
$batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)
subclass Pod::Simple::Search and set $batchconv->search_class to that classname

=head1 ASK ME!

If you want to do some kind of big pod-to-HTML version with some particular kind of option that you don’t see how to achieve using this module, email me (C<sburke@cpan.org>) and I'll probably have a good idea how to do it. For reasons of concision and energetic laziness, some methods and options in this module (and the dozen modules it depends on) are undocumented; but one of those undocumented bits might be just what you're looking for.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspec>

=head1 SUPPORT

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=head1 AUTHOR

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Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qfZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/HTMLBatch.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS
=head1 PIE

I like B<pie>!

=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just of arrayrefs, and hashrefs, and strings.

This is a subclass of L<Pod::Simple> and inherits all its methods.

This class is inspired by XML::Parser's "Tree" parsing-style, although it doesn't use exactly the same LoL format.

=head1 METHODS

At the end of the parse, call C<< $parser->root >> to get the tree's top node.
Every element node in the parse tree is represented by an arrayref of the form: `C<[ I<elementname>, %attributes, I<...subnodes...> ]>`. See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref) string scalar. So you can test `C<ref($node)>` to see whether you have an element node or just a text node.

The top node in the tree is `C<[ 'Document', %attributes, I<...subnodes...> ]>`. 

SEE ALSO

L<Pod::Simple>

L<perllol>

L<The "Tree" subsubsection in XML::Parser|XML::Parser/"Tree">
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=head1 NAME
Pod::Simple::TextContent -- get the text content of Pod

=head1 SYNOPSIS

TODO

perl -MPod::Simple::TextContent -e \
  "exit Pod::Simple::TextContent->filter(shift)->any_errata_seen" \
  thingy.pod

=head1 DESCRIPTION

This class is that parses Pod and dumps just the text content. It is mainly meant for use by the Pod::Simple test suite, but you may find some other use for it.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>
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=head1 NAME

Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS

use Pod::Simple::Debug (5); # or some integer

Or:

my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which
you don't want debug output from...

$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which
you DO want debug output from...

$debug_level = 0;

=head1 DESCRIPTION

This is an internal module for controlling the debug level (a.k.a. trace
level) of Pod::Simple. This is of interest only to Pod::Simple
developers.

=head1 CAVEATS

Note that you should load this module I<before> loading Pod::Simple (or
any Pod::Simple-based class). If you try loading Pod::Simple::Debug
after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will
throw a fatal error to the effect that
"it's too late to call Pod::Simple::Debug".

Note that the C<use Pod::Simple::Debug (\$x, I<somenum>)> mode will make
Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't
be a constant sub anymore, and so Pod::Simple (et al) won't compile with
constant-folding.

=head1 GUTS

Doing this:
use Pod::Simple::Debug (5); # or some integer

is basically equivalent to:

BEGIN { sub Pod::Simple::DEBUG () { 5 } } # or some integer
use Pod::Simple ();

And this:

use Pod::Simple::Debug ($debug_level, 0); # or some integer

is basically equivalent to this:

my $debug_level;
BEGIN { $debug_level = 0 }
BEGIN { sub Pod::Simple::DEBUG () { $debug_level }
use Pod::Simple ();

=head1 SEE ALSO

L<Pod::Simple>


=head1 SUPPORT

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over

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item * David E. Wheeler <dwheeler@cpan.org>

NAME

Pod::Simple::HTML - convert Pod to HTML

SYNOPSIS

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

DESCRIPTION

This class is for making an HTML rendering of a Pod document.

This is a subclass of L<Pod::Simple::PullParser> and inherits all its
methods (and options).

Note that if you want to do a batch conversion of a lot of Pod
documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

CALLING FROM THE COMMAND LINE
TODO

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL

=head2 Minimal code

use Pod::Simple::HTML;
my $p = Pod::Simple::HTML->new;
$p->output_string($html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die "Cannot open 'out.html': $!
\n";
print $out $html;

=head2 More detailed example

use Pod::Simple::HTML;

Set the content type:

$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >
};

my $p = Pod::Simple::HTML->new;

Include a single javascript source:

$p->html_javascript('http://abc.com/a.js');

Or insert multiple javascript source in the header
(or for that matter include anything, thought this is not recommended)

$p->html_javascript(''
  <script type="text/javascript" src="http://abc.com/b.js"></script>
  <script type="text/javascript" src="http://abc.com/c.js"></script>
');

Include a single css source in the header:

$p->html_css('/style.css');

or insert multiple css sources:

$p->html_css(''
  <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="http://remote.server.com/jquery.css">
  <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="/style.css">');
Tell the parser where should the output go. In this case it will be placed in the $html variable:

my $html;
$p->output_string($html);

Parse and process a file with pod in it:

$p->parse_file('path/to/Module/Name.pm');

=head1 METHODS

TODO
all (most?) accessorized methods

The following variables need to be set B<before> the call to the ->new constructor.

Set the string that is included before the opening <html> tag:

$Pod::Simple::HTML::Doctype_decl = qq{<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
};

Set the content-type in the HTML head: (defaults to ISO-8859-1)

$Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};

Set the value that will be ebedded in the opening tags of F, C tags and verbatim text.
F maps to <em>, C maps to <code>, Verbatim text maps to <pre> (Computerese defaults to ")

$Pod::Simple::HTML::Computerese = ' class="some_class_name';

=head2 html_css

=head2 html_javascript

=head2 title_prefix

=head2 title_postfix

=head2 html_header_before_title

This includes everything before the <title> opening tag including the Document type and including the opening <title> tag. The following call will set it to be a simple HTML file:

$p->html_header_before_title('<html><head><title>');
Normally =head1 will become <h1>, =head2 will become <h2> etc. Using the html_h_level method will change these levels setting the h level of =head1 tags:

$p->html_h_level(3);

Will make sure that =head1 will become <h3> and =head2 will become <h4> etc...

=head2 index

Set it to some true value if you want to have an index (in reality a table of contents) to be added at the top of the generated HTML.

$p->index(1);

=head2 html_header_after_title

Includes the closing tag of </title> and through the rest of the head till the opening of the body

$p->html_header_after_title('</title>...</head><body id="my_id">');

=head2 html_footer

The very end of the document:

$p->html_footer( qq[
<!-- end doc -->

</body></html>
] );

=head1 SUBCLASING

Can use any of the methods described above but for further customization one needs to override some of the methods:

package My::Pod;
use strict;
use warnings;
use base 'Pod::Simple::HTML';

# needs to return a URL string such
# http://some.other.com/page.html
# #anchor_in_the_same_file
# /internal/ref.html
sub do_pod_link {
my ($self, $link) = @_;  

say $link->tagname;      # will be L for links
say $link->attr('to');   #
say $link->attr('type'); # will be 'pod' always
say $link->attr('section');

# Links local to our web site
if ($link->tagname eq 'L' and $link->attr('type') eq 'pod') {
    my $to = $link->attr('to');
    if ($to =~ /^Padre::/) {
        $to =~ s{::}{/}g;
        return "/docs/Padre/$to.html";
    }
}

# all other links are generated by the parent class
my $ret = $self->SUPER::do_pod_link($link);
return $ret;

1;

Meanwhile in script.pl:

use My::Pod;

my $p = My::Pod->new;

my $html;
$p->output_string($html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die;
print $out $html;

TODO

maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common idioms?

=head1 SUPPORT
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=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the site for Perl module links.

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=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->tagname

This returns the tagname for this start-token object. For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this start-token object. You probably won't need to do this.

=item $token->tag(...) A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag() eq I<somestring> >>

=item $token->attr(I<attrname>)
This returns the value of the I<attrname> attribute for this start-token object, or undef.

For example, parsing a LZ<> <Foo/"Bar"> link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the value "pod", and a "section" attribute with the value "Bar".

=item $token->attr(I<attrname>, I<newvalue>)

This sets the I<attrname> attribute for this start-token object to I<newvalue>. You probably won't need to do this.

=item $token->attr_hash

This returns the hashref that is the attribute set for this start-token. This is useful if (for example) you want to ask what all the attributes are -- you can just do C<< keys %{$token->attr_hash} >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call

C<<
Pod::Simple::PullParserStartToken->new( I<tagname>, I<attrhash> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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No license file was found, but licenses were detected in source scan.

Pod::Simple::Search - find POD documents in directory trees

use Pod::Simple::Search;
my $name2path = Pod::Simple::Search->new->limit_glob('LWP::*')->survey;
print "Looky see what I found: ",
join(" ", sort keys %$name2path), "\n";
print "LWPUA docs = ",

=head1 DESCRIPTION

B<Pod::Simple::Search> is a class that you use for running searches for Pod files. An object of this class has several attributes (mostly options for controlling search options), and some methods for searching based on those attributes.

The way to use this class is to make a new object of this class, set any options, and then call one of the search options (probably C<survey> or C<find>). The sections below discuss the syntaxes for doing all that.

=head1 CONSTRUCTOR

This class provides the one constructor, called C<new>. It takes no parameters:

use Pod::Simple::Search;
my $search = Pod::Simple::Search->new;

=head1 ACCESSORS

This class defines several methods for setting (and, occasionally, reading) the contents of an object. With two exceptions (discussed at the end of this section), these attributes are just for controlling the way searches are carried out.

Note that each of these return C<$self> when you call them as C<< $self->I<whatever(value)>>. That's so that you can chain together set-attribute calls like this:

my $name2path =
  Pod::Simple::Search->new
  -> inc(0) -> verbose(1) -> callback(&blab)
  -> survey(@there);

...which works exactly as if you'd done this:

my $search = Pod::Simple::Search->new;
$search->inc(0);
$search->verbose(1);
$search->callback(&blab);
my $name2path = $search->survey(@there);
This attribute, if set to a true value, means that searches should implicitly add Perl's \@INC paths. This automatically considers paths specified in the PERL5LIB environment as this is prepended to \@INC by the Perl interpreter itself. This attribute's default value is TRUE. If you want to search only specific directories, set $self->inc(0) before calling $inc->survey or $inc->find.

This attribute, if set to a nonzero positive value, will make searches output (via warn) notes about what they're doing as they do it. This option may be useful for debugging a Pod-related module. This attribute's default value is zero, meaning that no warn messages are produced. (Setting verbose to 1 turns on some messages, and setting it to 2 turns on even more messages, i.e., makes the following search(es) even more verbose than 1 would make them.)

This option means that you want to limit the results just to items whose podnames match the given glob/wildcard expression. For example, you might limit your search to just "LWP::*", to search only for modules starting with "LWP::*" (but not including the module "LWP" itself); or you might limit your search to "LW*" to see only modules whose (full) names begin with "LW"; or you might search for "*Find*" to search for all modules with "Find" somewhere in their full name. (You can also use "?" in a glob expression; so "DB?" will match "DBI" and "DBD".)

This attribute means that every time this search sees a matching Pod file, it should call this callback routine. The routine is called with two parameters: the current file's filespec, and its pod name. (For example: C<"/etc/perljunk/File/Crunk.pm", "File::Crunk"> would be in C<@_ >.)

The callback routine's return value is not used for anything.

This attribute's default value is false, meaning that no callback is called.
=item $search->laborious( I<true-or-false> );

Unless you set this attribute to a true value, Pod::Search will apply Perl-specific heuristics to find the correct module PODs quickly. This attribute's default value is false. You won't normally need to set this to true.

Specifically: Turning on this option will disable the heuristics for seeing only files with Perl-like extensions, omitting subdirectories that are numeric but do not match the current Perl interpreter's version ID, suppressing F<site_perl> as a module hierarchy name, etc.

=item $search->shadows( I<true-or-false> );

Unless you set this attribute to a true value, Pod::Simple::Search will consider only the first file of a given modulename as it looks thru the specified directories; that is, with this option off, if Pod::Simple::Search has seen a C<somepathdir/Foo/Bar.pm> already in this search, then it won't bother looking at a C<somelaterpathdir/Foo/Bar.pm> later on in that search, because that file is merely a "shadow". But if you turn on C<< $self->shadows(1) >>, then these "shadow" files are inspected too, and are noted in the pathname2podname return hash.

This attribute's default value is false; and normally you won't need to turn it on.

=item $search->limit_re( I<some-regexp> );

Setting this attribute (to a value that's a regexp) means that you want to limit the results just to items whose podnames match the given regexp. Normally this option is not needed, and the more efficient C<limit_glob> attribute is used instead.

=item $search->dir_prefix( I<some-string-value> );

Setting this attribute to a string value means that the searches should begin in the specified subdirectory name (like "Pod" or "File::Find", also expressable as "File/Find"). For example, the search option C<< $search->limit_glob("File::Find::R*") >> is the same as the combination of the search options C<< $search->limit_re("^File::Find::R") -> dir_prefix("File::Find") >>.

Normally you don't need to know about the C<dir_prefix> option, but I include it in case it might prove useful for someone somewhere.
(Implementationally, searching with limit_glob ends up setting limit_re
and usually dir_prefix.)

=item $search->progress( I<some-progress-object> );

If you set a value for this attribute, the value is expected
to be an object (probably of a class that you define) that has a
C<reach> method and a C<done> method. This is meant for reporting
progress during the search, if you don't want to use a simple
callback.

Normally you don't need to know about the C<progress> option, but I
include it in case it might prove useful for someone somewhere.

While a search is in progress, the progress object's C<reach> and
C<done> methods are called like this:

# Every time a file is being scanned for pod:
$progress->reach($count, "Scanning $file");  ++$count;

# And then at the end of the search:
$progress->done("Noted $count Pod files total");

Internally, we often set this to an object of class
Pod::Simple::Progress. That class is probably undocumented,
but you may wish to look at its source.

=item $name2path = $self->name2path;

This attribute is not a search parameter, but is used to report the
result of C<survey> method, as discussed in the next section.

=item $path2name = $self->path2name;

This attribute is not a search parameter, but is used to report the
result of C<survey> method, as discussed in the next section.

=back

=head1 MAIN SEARCH METHODS

Once you've actually set any options you want (if any), you can go
ahead and use the following methods to search for Pod files
in particular ways.
The method \texttt{survey} searches for POD documents in a given set of
files and/or directories. This runs the search according to the various
options set by the accessors above. (For example, if the \texttt{inc} attribute
is on, as it is by default, then the perl \texttt{@INC} directories are implicitly
added to the list of directories (if any) that you specify.)

The return value of \texttt{survey} is two hashes:

\begin{verbatim}
=item C<name2path>
A hash that maps from each pod-name to the filespec (like
"Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm")

=item C<path2name>
A hash that maps from each Pod filespec to its pod-name (like
"/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing")
\end{verbatim}

Besides saving these hashes as the hashref attributes
\texttt{name2path} and \texttt{path2name}, calling this function also returns
these hashrefs. In list context, the return value of
\texttt{survey} is the list \texttt{(%name2path, %path2name)}. In scalar context, the return value is \texttt{%name2path}.

Regardless of calling context, calling \texttt{survey} saves
its results in its \texttt{name2path} and \texttt{path2name} attributes.

E.g., when searching in \texttt{HOME/perl5lib}, the file
\texttt{HOME/perl5lib/MyModule.pm} would get the POD name \texttt{MyModule},
whereas \texttt{HOME/perl5lib/Myclass/Subclass.pm} would be
\texttt{Myclass::Subclass}. The name information can be used for POD
translators.

Only text files containing at least one valid POD command are found.

In verbose mode, a warning is printed if shadows are found (i.e., more
than one POD file with the same POD name is found, e.g. \texttt{CPAN.pm} in
different directories). This usually indicates duplicate occurrences of
modules in the \texttt{@INC} search path, which is occasionally inadvertent
(but is often simply a case of a user's path dir having a more recent
version than the system's general path dirs in general.)

The options to this argument is a list of either directories that are searched recursively, or files. (Usually you wouldn't specify files, but just dirs.) Or you can just specify an empty-list, as in
$name2path; with the
C<inc> option on, as it is by default, teh

The POD names of files are the plain basenames with any Perl-like extension (.pm, .pl, .pod) stripped, and path separators replaced by C<::>'s.

Calling Pod::Simple::Search->search(...) is short for
Pod::Simple::Search->new->search(...). That is, a throwaway object with default attribute values is used.

=head2 C<< $search->simplify_name( $str ) >>

The method B<simplify_name> is equivalent to B<basename>, but also strips Perl-like extensions (.pm, .pl, .pod) and extensions like F<.bat>, F<.cmd> on Win32 and OS/2, or F<.com> on VMS, respectively.

=head2 C<< $search->find( $pod ) >>

=head2 C<< $search->find( $pod, @search_dirs ) >>

Returns the location of a Pod file, given a Pod/module/script name (like "Foo::Bar" or "perlvar" or "perldoc"), and an idea of what files/directories to look in.
It searches according to the various options set by the accessors above.
(For example, if the C<inc> attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

This returns the full path of the first occurrence to the file.
Package names (eg 'A::B') are automatically converted to directory names in the selected directory. Additionally, '.pm', '.pl' and '.pod' are automatically appended to the search as required.
(So, for example, under Unix, "A::B" is converted to "somedir/A/B.pm", "somedir/A/B.pod", or "somedir/A/B.pl", as appropriate.)

If no such Pod file is found, this method returns undef.

If any of the given search directories contains a F<pod/> subdirectory, then it is searched. (That's how we manage to find F<perlfunc>, for example, which is usually in F<pod/perlfunc> in most Perl dists.)
The `C<verbose>` and `C<inc>` attributes influence the behavior of this search; notably, `C<inc>`, if true, adds @INC and also $Config::Config{'scriptdir'} to the list of directories to search.

It is common to simply say `C<$filename = Pod::Simple::Search->new->find("perlvar") >>` so that just the @INC (well, and scriptdir) directories are searched. (This happens because the `C<inc>` attribute is true by default.)

Calling Pod::Simple::Search->find(...) is short for Pod::Simple::Search->new->find(...). That is, a throwaway object with default attribute values is used.

=head2 $self->contains_pod( $file )

Returns true if the supplied filename (not POD module) contains some Pod documentation.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org> with code borrowed from Marek Rouchal's L<Pod::Find>, which in turn heavily borrowed code from Nick Ing-Simmons' C<PodToHtml>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qTZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-Tlm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/Search.pm

No license file was found, but licenses were detected in source scan.

---
abstract: 'framework for parsing Pod'
author:
- 'Allison Randal <allison@perl.org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Pod-Simple
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  Cwd: 0
  File::Basename: 0
  File::Find: 0
  File::Spec: 0
Pod::Escapes: 1.04
Symbol: 0
Test: 1.25
Test::More: 0
Text::Wrap: 98.112902
constant: 0
integer: 0
overload: 0
strict: 0
resources:
  homepage: http://search.cpan.org/dist/Pod-Simple/
  license: http://dev.perl.org/licenses/
  repository: git://github.com/theory/pod-simple.git
version: 3.28

Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qzC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Subclassing -- write a formatter as a Pod::Simple subclass

=head1 SYNOPSIS

package Pod::SomeFormatter;
use Pod::Simple;
@ISA = qw(Pod::Simple);
$VERSION = '1.01';
use strict;

sub _handle_element_start {
  my($parser, $element_name, $attr_hash_r) = @_;  
  ...
}

sub _handle_element_end {
  my($parser, $element_name, $attr_hash_r) = @_;  
  # NOTE: $attr_hash_r is only present when $element_name is "over" or "begin"
  # The remaining code excerpts will mostly ignore this $attr_hash_r, as it is
  # mostly useless. It is documented where "over-*" and "begin" events are
  # documented.
  ...
}

sub _handle_text {
  my($parser, $text) = @_;
This document is about using Pod::Simple to write a Pod processor, generally a Pod formatter. If you just want to know about using an existing Pod formatter, instead see its documentation and see also the docs in L<Pod::Simple>.

The zeroeth step in writing a Pod formatter is to make sure that there isn't already a decent one in CPAN. See L<http://search.cpan.org/>, and run a search on the name of the format you want to render to. Also consider joining the Pod People list L<http://lists.perl.org/showlist.cgi?name=pod-people> and asking whether anyone has a formatter for that format -- maybe someone cobbled one together but just hasn't released it.

The first step in writing a Pod processor is to read L<perlpodspec>, which contains notes information on writing a Pod parser (which has been largely taken care of by Pod::Simple), but also a lot of requirements and recommendations for writing a formatter.

The second step is to actually learn the format you're planning to format to -- or at least as much as you need to know to represent Pod, which probably isn't much.

The third step is to pick which of Pod::Simple's interfaces you want to use -- the basic interface via Pod::Simple or L<Pod::Simple::Methody> is event-based, sort of like L<HTML::Parser>'s interface, or sort of like L<XML::Parser>'s "Handlers" interface), but L<Pod::Simple::PullParser> provides a token-stream interface, sort of like L<HTML::TokeParser>'s interface; L<Pod::Simple::SimpleTree> provides a simple tree interface, rather like XML::Parser's "Tree" interface. Users familiar with XML-handling will find one of these styles relatively familiar; but if you would be even more at home with XML, there are classes that produce an XML representation of the Pod stream, notably L<Pod::Simple::XMLOutStream>; you can feed the output of such a class to whatever XML parsing system you are most at home with.

The last step is to write your code based on how the events (or tokens, or tree-nodes, or the XML, or however you're parsing) will map to constructs in the output format. Also sure to consider how to escape text nodes containing arbitrary text, and also what to do with text nodes that represent preformatted text (from verbatim sections).
=head1 Events

TODO intro... mention that events are supplied for implicits, like for missing />s

In the following section, we use XML to represent the event structure associated with a particular construct. That is, TODO

=back

TODO describe

=back

=item events with an element_name of Document

Parsing a document produces this event structure:

<Document start_line="543">
...all events...
</Document>

The value of the I<start_line> attribute will be the line number of the first Pod directive in the document.

If there is no Pod in the given document, then the event structure will be this:

<Document contentless="1" start_line="543">
</Document>

In that case, the value of the I<start_line> attribute will not be meaningful; under current implementations, it will probably be the line number of the last line in the file.

=item events with an element_name of Para
Parsing a plain (non-verbatim, non-directive, non-data) paragraph in a Pod document produces this event structure:

```xml
<Para start_line="543">
...all events in this paragraph...
</Para>
```

The value of the `start_line` attribute will be the line number of the start of the paragraph.

For example, parsing this paragraph of Pod:

```plaintext
The value of the `start_line` attribute will be the line number of the start of the paragraph.
```

produces this event structure:

```xml
<Para start_line="129">
The value of the
<start_line>start_line</start_line>
attribute will be the line number of the first Pod directive in the document.
</Para>
```

= event items with an element_name of B, C, F, or I.

Parsing a `BE<lt>...E<gt>` formatting code (or of course any of its semantically identical syntactic variants `S<BE<lt>E<lt>...E<gt>E<gt>...,` or `S<BE<lt>E<lt>E<lt>E<lt>...E<gt>E<gt>E<gt>E<gt>...,` etc.) produces this event structure:

```xml
<B>
...stuff...
</B>
```

Currently, there are no attributes conveyed.

Parsing C, F, or I codes produce the same structure, with only a different element name.

If your parser object has been set to accept other formatting codes, then they will be presented like these B/C/F/I codes -- i.e., without any attributes.

= event items with an element_name of S
Normally, parsing an SE<lt>...E<gt> sequence produces this event structure, just as if it were a B/C/F/I code:

<S>
...stuff...
</S>

However, Pod::Simple (and presumably all derived parsers) offers the C<nbsp_for_S> option which, if enabled, will suppress all S events, and instead change all spaces in the content to non-breaking spaces. This is intended for formatters that output to a format that has no code that means the same as SE<lt>...E<gt>, but which has a code/character that means non-breaking space.

=item events with an element_name of X

Normally, parsing an XE<lt>...E<gt> sequence produces this event structure, just as if it were a B/C/F/I code:

<X>
...stuff...
</X>

However, Pod::Simple (and presumably all derived parsers) offers the C<nix_X_codes> option which, if enabled, will suppress all X events and ignore their content. For formatters/processors that don't use X events, this is presumably quite useful.

=item events with an element_name of L

Because the LE<lt>...E<gt> is the most complex construct in the language, it should not surprise you that the events it generates are the most complex in the language. Most of complexity is hidden away in the attribute values, so for those of you writing a Pod formatter that produces a non-hypertextual format, you can just ignore the attributes and treat an L event structure like a formatting element that (presumably) doesn't actually produce a change in formatting. That is, the content of the L event structure (as opposed to its attributes) is always what text should be displayed.

There are, at first glance, three kinds of L links: URL, man, and pod.

When a LE<lt>1<some_url>E<gt> code is parsed, it produces this event structure:

<L content-implicit="yes" raw="that_url" to="that_url" type="url">
The `url` attribute is always specified for this type of code.

For example, this Pod source:

```perl
L<http://www.perl.com/CPAN/authors/>
```

produces this event structure:

```perl
<L content-implicit="yes" raw="http://www.perl.com/CPAN/authors/" to="http://www.perl.com/CPAN/authors/" type="url">
http://www.perl.com/CPAN/authors/
</L>
```

When a `manpage(section)` code is parsed (and these are fairly rare and not terribly useful), it produces this event structure:

```perl
<L content-implicit="yes" raw="manpage(section)" to="manpage(section)" type="man">
manpage(section)
</L>
```

The `man` attribute is always specified for this type of code.

For example, this Pod source:

```perl
L<crontab(5)>
```

produces this event structure:

```perl
<L content-implicit="yes" raw="crontab(5)" to="crontab(5)" type="man">
crontab(5)
</L>
```

In the rare cases where a man page link has a specified, that text appears in a `section` attribute. For example, this Pod source:

```perl
L<crontab(5)/"ENVIRONMENT">
```

will produce this event structure:

```perl
<L content-implicit="yes" raw="crontab(5)\"ENVIRONMENT\"" section="ENVIRONMENT" to="crontab(5)" type="man">
"ENVIRONMENT" in crontab(5)
</L>
```
In the rare case where the Pod document has code like
\[\texttt{LE}<\texttt{I}\texttt{sometext}|\texttt{I}<\texttt{manpage(section)}>|\texttt{E}<\texttt{gt}>\],
then the \texttt{I}sometext will appear
as the content of the element, the \texttt{I}<\texttt{manpage(section)}> text will appear
only as the value of the \texttt{I}<\texttt{to}> attribute, and there will be no
\texttt{C}<\texttt{content-implicit="yes">} attribute (whose presence means that the Pod parser
had to infer what text should appear as the link text -- as opposed to
cases where that attribute is absent, which means that the Pod parser did
\texttt{I}<\texttt{not}> have to infer the link text, because that \texttt{L} code explicitly specified
some link text.)

For example, this Pod source:

\texttt{L<\texttt{hell itself!}|\texttt{crontab(5)}>}

will produce this event structure:

\texttt{<L raw="hell itself!|crontab(5)" to="crontab(5)" type="man">}

hell itself!
</L>

The last type of \texttt{L} structure is for links to/within Pod documents. It is
the most complex because it can have a \texttt{I}<\texttt{to}> attribute, \texttt{I}<\texttt{or}> a
\texttt{I}<\texttt{section}> attribute, or both. The \texttt{C}<\texttt{type="pod"> attribute is always
specified for this type of \texttt{L} code.

In the most common case, the simple case of a \texttt{LE}<\texttt{lt}>\texttt{podpageE}<\texttt{gt}> code
produces this event structure:

\texttt{<L content-implicit="yes" raw="podpage" to="podpage" type="pod">}
podpage
</L>

For example, this Pod source:

\texttt{L<\texttt{Net::Ping}>}

produces this event structure:

\texttt{<L content-implicit="yes" raw="Net::Ping" to="Net::Ping" type="pod">}
Net::Ping
</L>

In cases where there is link-text explicitly specified, it
is to be found in the content of the element (and not the
attributes), just as with the \texttt{LE}<\texttt{lt}>\texttt{sometext}|\texttt{I}<\texttt{manpage(section)}>|\texttt{E}<\texttt{gt}> case discussed above. For example, this Pod source:
L<Perl Error Messages|perldiag>

produces this event structure:

<L raw="Perl Error Messages|perldiag" to="perldiag" type="pod">
Perl Error Messages
</L>

In cases of links to a section in the current Pod document, there is a I<section> attribute instead of a I<to> attribute. For example, this Pod source:

L</"Member Data">

produces this event structure:

<L content-implicit="yes" raw="/" Member Data" type="pod">
"Member Data"
</L>

As another example, this Pod source:

L<the various attributes|"Member Data">

produces this event structure:

<L raw="the various attributes|" Member Data" type="pod">
the various attributes
</L>

In cases of links to a section in a different Pod document, there are both a I<section> attribute and a L<to> attribute. For example, this Pod source:

L<perlsyn|"Basic BLOCKs and Switch Statements">

produces this event structure:

<L content-implicit="yes" raw="perlsyn|Basic BLOCKs and Switch Statements" type="pod">
"Basic BLOCKs and Switch Statements" in perlsyn
</L>

As another example, this Pod source:

L<SWITCH statements|perlsyn|"Basic BLOCKs and Switch Statements">

produces this event structure:
SWITCH statements

Incidentally, note that we do not distinguish between these syntaxes:

L </Member Data>
L </Member Data>
L </Member Data>
L <Member Data> [deprecated syntax]

That is, they all produce the same event structure (for the most part), namely:

The I<raw> attribute depends on what the raw content of the C<LE<lt>E<gt>> is, so that is why the event structure is the same "for the most part".

If you have not guessed it yet, the I<raw> attribute contains the raw, original, unescaped content of the C<LE<lt>E<gt>> formatting code. In addition to the examples above, take notice of the following event structure produced by the following C<LE<lt>E<gt>> formatting code.

L <click B<here>|page/About the C<-M> switch>

Specifically, notice that the formatting codes are present and unescaped in I<raw>.

There is a known bug in the I<raw> attribute where any surrounding whitespace is condensed into a single ' '. For example, given LE<60>   linkE<62>, I<raw> will be " link".

=item events with an element_name of E or Z

While there are Pod codes EE<lt>...E<gt> and ZE<lt>E<gt>, these I<do not> produce any E or Z events -- that is, there are no such events as E or Z.

=item events with an element_name of Verbatim
When a Pod verbatim paragraph (AKA "codeblock") is parsed, it produces this event structure:

```xml
<Verbatim start_line="543" xml:space="preserve">
...text...
</Verbatim>
```

The value of the I<start_line> attribute will be the line number of the first line of this verbatim block. The I<xml:space> attribute is always present, and always has the value "preserve".

The text content will have tabs already expanded.

=item events with an element_name of head1 .. head4

When a "=head1 ..." directive is parsed, it produces this event structure:

```xml
<head1>
...stuff...
</head1>
```

For example, a directive consisting of this:

```plaintext
=head1 Options to C<new> et al.
```

will produce this event structure:

```xml
<head1 start_line="543">
Options to <C>
new
</C>
et al.
</head1>
```

"=head2" thru "=head4" directives are the same, except for the element names in the event structure.

=item events with an element_name of encoding

In the default case, the events corresponding to C</encoding> directives are not emitted. They are emitted if C<keep_encoding_directive> is true. In that case they produce event structures like L</"events with an element_name of head1 .. head4"> above.

=item events with an element_name of over-bullet
When an "=over ... Z<=back" block is parsed where the items are a bulleted list, it will produce this event structure:

```
<over-bullet indent="4" start_line="543">
  <item-bullet start_line="545">
    ...Stuff...
  </item-bullet>
  ...more item-bullets...
</over-bullet fake-closer="1">
```

The attribute I<fake-closer> is only present if it is a true value; it is not present if it is a false value. It is shown in the above example to illustrate where the attribute is (in the B<closing> tag). It signifies that the C<=over> did not have a matching C<=back>, and thus Pod::Simple had to create a fake closer.

For example, this Pod source:

```
=over
=item *
Something
=back
```

Would produce an event structure that does B<not> have the I<fake-closer> attribute, whereas this Pod source:

```
=over
=item *
Gasp! An unclosed =over block!
```

would. The rest of the over-* examples will not demonstrate this attribute, but they all can have it. See L<Pod::Checker>'s source for an example of this attribute being used.

The value of the I<indent> attribute is whatever value is after the "=over" directive, as in "=over 8". If no such value is specified in the directive, then the I<indent> attribute has the value "4".

For example, this Pod source:

```
=over
```
=item *

Stuff

=item *

Bar I<baz>!

=back

produces this event structure:

<over-bullet indent="4" start_line="10">
  <item-bullet start_line="12">
    Stuff
  </item-bullet>
  <item-bullet start_line="14">
    Bar <I>baz</I>!
  </item-bullet>
</over-bullet>

=item events with an element_name of over-number

When an ":=over ... Z<=back" block is parsed where the items are a numbered list, it will produce this event structure:

<over-number indent="4" start_line="543">
  <item-number number="1" start_line="545">
    ...Stuff...
  </item-number>
  ...more item-number...
</over-bullet>

This is like the "over-bullet" event structure; but note that the contents are "item-number" instead of "item-bullet", and note that they will have a "number" attribute, which some formatters/processors may ignore (since, for example, there's no need for it in HTML when producing an "<UL><LI>...</LI>...</UL>" structure), but which any processor may use.

Note that the values for the I<number> attributes of "item-number" elements in a given "over-number" area I<will> start at 1 and go up by one each time. If the Pod source doesn't follow that order (even though it really should should!), whatever numbers it has will be ignored (with the correct values being put in the I<number> attributes), and an error message might be issued to the user.

=item events with an element_name of over-text
These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z<>=back" block is parsed where the items are a list of text "subheadings", it will produce this event structure:

```
<over-text indent="4" start_line="543">
  <item-text>
    ...stuff...
  </item-text>
  ...stuff (generally Para or Verbatim elements)...
  <item-text>
    ...more item-text and/or stuff...
  </over-text>
```

The `I<indent>` and `I<fake-closer>` attributes are as with the other over-* events.

For example, this Pod source:

```
=over

=item Foo

Stuff

=item Bar I<baz>!

Quux

=back
```

produces this event structure:

```
<over-text indent="4" start_line="20">
  <item-text start_line="22">
    Foo
  </item-text>
  <Para start_line="24">
    Stuff
  </Para>
  <item-text start_line="26">
    Bar
    <I>
      baz
    </I>
    !
  </item-text>
  <Para start_line="28">
    Quux
  </Para>
```
=item events with an element_name of over-block

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an 
"=over ... Z<>=back" block is parsed where there are no items, it will produce this event structure:

<over-block indent="4" start_line="543">
...stuff (generally Para or Verbatim elements)...</over-block>

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

=over

For cutting off our trade with all parts of the world

For transporting us beyond seas to be tried for pretended offenses

He is at this time transporting large armies of foreign mercenaries to complete the works of death, desolation and tyranny, already begun with circumstances of cruelty and perfidy scarcely paralleled in the most barbarous ages, and totally unworthy the head of a civilized nation.

=back

will produce this event structure:

<over-block indent="4" start_line="2">
<Para start_line="4">
  For cutting off our trade with all parts of the world
</Para>
<Para start_line="6">
  For transporting us beyond seas to be tried for pretended offenses
</Para>
<Para start_line="8">
  He is at this time transporting large armies of [...more text...]
</Para>
</over-block>

=item events with an element_name of over-empty
B<Note: These events are only triggered if C<parse_empty_lists()> is set to a true value.>

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z<>=back" block is parsed where there is no content, it will produce this event structure:

```xml
<over-empty indent="4" start_line="543">
</over-empty>
```

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

```plaintext
=over

=over

=back

=back
```

will produce this event structure:

```xml
<over-block indent="4" start_line="1">
<over-empty indent="4" start_line="3">
</over-empty>
</over-block>
```

Note that the outer C<over> is a block because it has no C<item>s but still has content: the inner C<over>. The inner C<over>, in turn, is completely empty, and is treated as such.

=item events with an element_name of item-bullet

See L<"events with an element_name of over-bullet">, above.

=item events with an element_name of item-number

See L<"events with an element_name of over-number">, above.

=item events with an element_name of item-text

See L<"events with an element_name of over-text">, above.

=item events with an element_name of for
=head1 More Pod::Simple Methods

Pod::Simple provides a lot of methods that aren't generally interesting to the end user of an existing Pod formatter, but some of which you might find useful in writing a Pod formatter. They are listed below. The first several methods (the accept_* methods) are for declaring the capabilities of your parser, notably what `for $targetname` sections it's interested in, what extra `NE<lt>...E<gt>` codes it accepts beyond the ones described in the `perlpod`.

=over

=item C<< $parser->accept_targets( I<SOMEVALUE> ) >>

As the parser sees sections like:

=for html  <img src="fig1.jpg">

or

=begin html

  <img src="fig1.jpg">

=end html

...the parser will ignore these sections unless your subclass has specified that it wants to see sections targeted to "html" (or whatever the formatter name is).

If you want to process all sections, even if they're not targeted for you, call this before you start parsing:

$parser->accept_targets("*");

=item C<< $parser->accept_targets_as_text( I<SOMEVALUE> ) >>

This is like accept_targets, except that it specifies also that the
content of sections for this target should be treated as Pod text even if the target name in "=for I<targetname>" doesn't start with a ":".

At time of writing, I don't think you'll need to use this.

=item C<< $parser->accept_codes( I<Codename>, I<Codename>... ) >>

This tells the parser that you accept additional formatting codes, beyond just the standard ones (I B C L F S X, plus the two weird ones you don't actually see in the parse tree, Z and E). For example, to also accept codes "N", "R", and "W":

$parser->accept_codes( qw( N R W ) );

B<TODO: document how this interacts with =extend, and long element names>

=item C<< $parser->accept_directive_as_data( I<directive_name> ) >>

=item C<< $parser->accept_directive_as_verbatim( I<directive_name> ) >>

=item C<< $parser->accept_directive_as_processed( I<directive_name> ) >>

In the unlikely situation that you need to tell the parser that you will accept additional directives ("=foo" things), you need to first set the parser to treat its content as data (i.e., not really processed at all), or as verbatim (mostly just expanding tabs), or as processed text (parsing formatting codes like \texttt{BE<lt>...E<gt>}).

For example, to accept a new directive "=method", you'd presumably use:

$parser->accept_directive_as_processed("method");

so that you could have Pod lines like:

=method I<$whatever> thing B<um>

Making up your own directives breaks compatibility with other Pod formatters, in a way that using "=for I<target> ..." lines doesn't; however, you may find this useful if you're making a Pod superset format where you don't need to worry about compatibility.

=item C<< $parser->nbsp_for_S( I<BOOLEAN> ); >>

Setting this attribute to a true value (and by default it is false) will
Open Source Used In Data Center Network Manager 11.5(1)  23127

turn "SE<lt>...E<gt>" sequences into sequences of words separated by C<xA0> (non-breaking space) characters. For example, it will take this:

I like S<Dutch apple pie>, don't you?

and treat it as if it were:

I like DutchE&nbsp;appleE&nbsp;pie, don't you?

This is handy for output formats that don't have anything quite like an "SE<lt>...E<gt>" code, but which do have a code for non-breaking space.

There is currently no method for going the other way; but I can probably provide one upon request.

=item C<< $parser->version_report() >>

This returns a string reporting the $VERSION value from your module (and its classname) as well as the $VERSION value of Pod::Simple. Note that L/perlpodspec requires output formats (wherever possible) to note this detail in a comment in the output format. For example, for some kind of SGML output format:

print OUT "<!-- \n", $parser->version_report, "\n -->";

=item C<< $parser->pod_para_count() >>

This returns the count of Pod paragraphs seen so far.

=item C<< $parser->line_count() >>

This is the current line number being parsed. But you might find the "line_number" event attribute more accurate, when it is present.

=item C<< $parser->nix_X_codes( I<SOMEVALUE> ) >>

This attribute, when set to a true value (and it is false by default) ignores any "XE<lt>...E<gt>" sequences in the document being parsed. Many formats don't actually use the content of these codes, so have no reason to process them.

=item C<< $parser->keep_encoding_directive( I<SOMEVALUE> ) >>

This attribute, when set to a true value (it is false by default)
will keep `<encoding>` and its content in the event structure. Most formats don't actually need to process the content of an `<encoding>` directive, even when this directive sets the encoding and the processor makes use of the encoding information. Indeed, it is possible to know the encoding without processing the directive content.

=item C<< $parser->merge_text( I<SOMEVALUE> ) >>

This attribute, when set to a true value (and it is false by default) makes sure that only one event (or token, or node) will be created for any single contiguous sequence of text. For example, consider this somewhat contrived example:

I just LOVE Z<<hotE<32>apple pie!

When that is parsed and events are about to be called on it, it may actually seem to be four different text events, one right after another: one event for "I just LOVE ", one for "hot", one for " ", and one for "apple pie!". But if you have merge_text on, then you're guaranteed that it will be fired as one text event: "I just LOVE hot apple pie!".

=item C<< $parser->code_handler( I<CODE_REF> ) >>

This specifies code that should be called when a code line is seen (i.e., a line outside of the Pod). Normally this is undef, meaning that no code should be called. If you provide a routine, it should start out like this:

sub get_code_line {  # or whatever you'll call it    my($line, $line_number, $parser) = @_;    ...
    }

Note, however, that sometimes the Pod events aren't processed in exactly the same order as the code lines are -- i.e., if you have a file with Pod, then code, then more Pod, sometimes the code will be processed (via whatever you have code_handler call) before the all of the preceding Pod has been processed.

=item C<< $parser->cut_handler( I<CODE_REF> ) >>

This is just like the code_handler attribute, except that it's for "=cut" lines, not code lines. The same caveats apply. "=cut" lines are unlikely to be interesting, but this is included for completeness.
This is just like the code_handler attribute, except that it's for "=pod" lines, not code lines. The same caveats apply. "=pod" lines are unlikely to be interesting, but this is included for completeness.

This is just like the code_handler attribute, except that it's for lines that are seemingly blank but have whitespace (" " and/or "\t") on them, not code lines. The same caveats apply. These lines are unlikely to be interesting, but this is included for completeness.

This notes a problem in the Pod, which will be reported to in the "Pod Errors" section of the document and/or send to STDERR, depending on the values of the attributes C<no_whining>, C<no_errata_section>, and C<complain_stderr>.

This notes an error like C<whine> does, except that it is not suppressible with C<no_whining>. This should be used only for very serious errors.

This aborts parsing of the current document, by switching on the flag that indicates that EOF has been seen. In particularly drastic cases, you might want to do this. It's rather nicer than just calling C<die>!

Some subclasses that indiscriminately dump event attributes (well, except for ones beginning with "~") can use this object attribute for refraining to dump the "start_line" attribute.

This attribute, if set to true, will suppress reports of non-fatal error messages. The default value is false, meaning that complaints I<are> reported. How they get reported depends on the values of
the attributes `no_errata_section` and `complain_stderr`.

```perl
=item C<< $parser->no_errata_section( I<SOMEVALUE> ) >>
```

This attribute, if set to true, will suppress generation of an errata section. The default value is false -- i.e., an errata section will be generated.

```perl
=item C<< $parser->complain_stderr( I<SOMEVALUE> ) >>
```

This attribute, if set to true will send complaints to STDERR. The default value is false -- i.e., complaints do not go to STDERR.

```perl
=item C<< $parser->bare_output( I<SOMEVALUE> ) >>
```

Some formatter subclasses use this as a flag for whether output should have prologue and epilogue code omitted. For example, setting this to true for an HTML formatter class should omit the "<html><head><title>...</title><body>..." prologue and the "</body></html>" epilogue.

If you want to set this to true, you should probably also set `no_whining` or at least `no_errata_section` to true.

```perl
=item C<< $parser->preserve_whitespace( I<SOMEVALUE> ) >>
```

If you set this attribute to a true value, the parser will try to preserve whitespace in the output. This means that such formatting conventions as two spaces after periods will be preserved by the parser. This is primarily useful for output formats that treat whitespace as significant (such as text or *roff, but not HTML).

```perl
=item C<< $parser->parse_empty_lists( I<SOMEVALUE> ) >>
```

If this attribute is set to true, the parser will not ignore empty `<=over>/<=back>` blocks. The type of `<=over>` will be `I<empty>`, documented above, `L<events with an element_name of over-empty>`.

=head1 SEE ALSO

`L<Pod::Simple>` -- event-based Pod-parsing framework

`L<Pod::Simple::Methody>` -- like `Pod::Simple`, but each sort of event calls its own method (like `C<start_head3>`)  

`L<Pod::Simple::PullParser>` -- a Pod-parsing framework like `Pod::Simple`,
but with a token-stream interface

L<Pod::Simple::SimpleTree> -- a Pod-parsing framework like Pod::Simple, but with a tree interface

L<Pod::Simple::Checker> -- a simple Pod::Simple subclass that reads documents, and then makes a plaintext report of any errors found in the document

L<Pod::Simple::DumpAsXML> -- for dumping Pod documents as tidily indented XML, showing each event on its own line

L<Pod::Simple::XMLOutStream> -- dumps a Pod document as XML (without introducing extra whitespace as Pod::Simple::DumpAsXML does).

L<Pod::Simple::DumpAsText> -- for dumping Pod documents as tidily indented text, showing each event on its own line

L<Pod::Simple::LinkSection> -- class for objects representing the values of the TODO and TODO attributes of LE<lt>...E<gt> elements

L<Pod::Escapes> -- the module the Pod::Simple uses for evaluating EE<lt>...E<gt> content

L<Pod::Simple::Text> -- a simple plaintext formatter for Pod

L<Pod::Simple::TextContent> -- like Pod::Simple::Text, but makes no effort for indent or wrap the text being formatted

L<Pod::Simple::HTML> -- a simple HTML formatter for Pod

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<perldoc>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
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AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

over

item * Allison Randal <allison@perl.org>

item * Hans Dieter Pearcey <hdp@cpan.org>

item * David E. Wheeler <dwheeler@cpan.org>

back

for notes

Hm, my old podchecker version (1.2) says:

*** WARNING: node 'http://search.cpan.org/' contains non-escaped | or / at line 38 in file Subclassing.pod
*** WARNING: node 'http://lists.perl.org/showlist.cgi?name=pod-people' contains non-escaped | or / at line 41 in file Subclassing.pod

Yes, L<...> is hard.

cut

No license file was found, but licenses were detected in source scan.

SEE ALSO
=head1 SUPPORT

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=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the site for Perl module links.

=head1 AUTHOR

Pod::Simple::XHTML was created by Allison Randal <allison@perl.org>.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>
Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-7Im8aDDs/Pod-Simple-3.28/lib/Pod/Simple/XHTML.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->tagname

This returns the tagname for this end-token object.
For example, parsing a "=head1 ..." line will give you
a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this end-token object. You probably won't need to do this.

=item $token->tag(...)  

A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)
These are shortcuts for C<< $token->tag() eq I<somestring> >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call C<<
Pod::Simple::PullParserEndToken->new( I<tagname> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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=over

=item * Allison Randal C<allison@perl.org>
NAME

perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION

This section of the FAQ answers questions related to programmer tools and programming support.

How do I do (anything)?

Have you looked at CPAN (see L<perlfaq2>)? The chances are that someone has already written a module that can solve your problem.

Have you read the appropriate man pages? Here's a brief index:

Basics perldata, perlvar, perlsyn, perlop, perls
Execution perlrn, perldebug
Functions perlfunc
Objects perlref, perlmod, perlsub, perltie
Data Structures perlref, perllol, perl
dsc
Modules perlmod, perlmodlib, perlsub
Regexp perles, perlfunc, perllop, perlocale
Moving to perl5 perltrap, perl
Linking w/C perlxs, perlcall, perlguts, perlembed
(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in L<perltoc>.

How can I use Perl interactively?

The typical approach uses the Perl debugger, described in the perldebug(1) man page, on an "empty" program, like this:
perl -de 42

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

=head2 Is there a Perl shell?

In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

=head2 How do I debug my Perl programs?

Have you tried C<use warnings> or used C<-w>? They enable warnings to detect dubious practices.

Have you tried C<use strict>? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with C<my>, C<our>, or C<use vars>.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

    open(FH, "> /etc/cantwrite")
    or die "Couldn't write to /etc/cantwrite: $!
;

Did you read L<perltrap>? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like I<awk> and I<C>.

Have you tried the Perl debugger, described in L<perldebug>? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

=head2 How do I profile my Perl programs?

You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.
Here’s a sample use of Benchmark:

```perl
use Benchmark;

@junk = `cat /etc/motd`;
$count = 10_000;

timethese($count, {
    'map' => sub { my @a = @junk;
        map { s/a/b/ } @a;
        return @a
    },
    'for' => sub { my @a = @junk;
        local $_;
        for (@a) { s/a/b/ ;}
        return @a
    };
});
```

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):

```
Benchmark: timing 10000 iterations of for, map...
    for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
    map:  6 secs ( 4.97 usr  0.00 sys =  4.97 cpu)
```

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

=head2 How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

```perl
perl -MO=Xref[OPTIONS] scriptname.plx
```

=head2 Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in L<perlstyle>, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide
remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

```
set ai sw=4
map! ^O {^M}^[O^T
```

Now put that in your F.<exrc> file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting—as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the I<vgrind> program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.

The a2ps at http://www.infres.enst.fr/~demaille/a2ps/ does lots of things related to generating nicely printed output of documents.

=head2 Is there a ctags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

=head2 Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE—Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

=over 4

=item CodeMagicCD

http://www.codemagiccd.com/

=item Komodo

ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging

=item The Object System
(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

=item PerlBuilder
(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

=item Perl code magic
(http://www.petes-place.com/codemagic.html).

=item visiPerl+
http://helpconsulting.net/visiperl/, from Help Consulting.

=back

For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

=over 4

=item GNU Emacs
http://www.gnu.org/software/emacs/windows/ntemacs.html

=item MicroEMACS
http://members.nbci.com/uemacs/

=item XEmacs
http://www.xemacs.org/Download/index.html

=back

or a vi clone such as
=over 4

=item Elvis

=item Vile
http://vile.cx/

=item Vim
http://www.vim.org/

win32: http://www.cs.vu.nl/%7Etmgil/vi.html

=back

For vi lovers in general, Windows or elsewhere:

nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.

The following are Win32 multilanguage editor/IDESs that support Perl:

=over 4

=item Codewright
http://www.starbase.com/

=item MultiEdit

=item SlickEdit
http://www.slickedit.com/

=back
There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.

In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include

=item Bash
from the Cygwin package (http://sources.redhat.com/cygwin/)

=item Ksh
from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)

=item Tcsh

=item Zsh
ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).
=item BBEdit and BBEdit Lite

are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).

=item Alpha

is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olm.net/).

=back

Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/).

=head2 Where can I get Perl macros for vi?

For a complete version of Tom Christiansen's vi configuration file, see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz, the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

=head2 Where can I get perl-mode for emacs?

Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with C"'main'foo'" (single quote), and mess up the indentation and highlighting. You are probably using C"main::foo" in new Perl code anyway, so this shouldn't be an issue.

=head2 How can I use curses with Perl?

The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering B<rep ps axu> similar to B<top>.
How can I use X or Tk with Perl?

Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/


How can I generate simple menus without using CGI or Tk?

The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

What is undump?

See the next question on "How can I make my Perl program run faster?"

How can I make my Perl program run faster?

The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.
If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.

Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the "Selecting File I/O mechanisms" section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

=head2 How can I make my Perl program take less memory?

When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing C<perl -V:usemymalloc>.

=head2 Is it unsafe to return a pointer to local data?

No, Perl's garbage collection system takes care of this.

    sub makeone {
        my @a = ( 1 .. 10 );
    }
return \@a;
}

for $i ( 1 .. 10 ) {
    push @many, makeone();
}

print $many[4][5], "\n";

print "@many\n";

=head2 How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, C<undef $scalar> will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

=head2 How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C B<isn't going to help you> because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.
With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.


A non-free, commercial product, "The Velocity Engine for Perl", (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/ ) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

=head2 How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of "security".

First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using
the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like "This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah." We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

=head2 How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details. If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers,
viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared \texttt{libperl.so}), you'll probably want a complete Perl install anyway.

=head2 How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

=head2 How can I get C<#!perl> to work on \[MS-DOS,NT,...]\?

For OS/2 just use

```
  extproc perl -S -your_switches
```

as the first line in \texttt{C<*.cmd>} file (\texttt{C<-S>} due to a bug in cmd.exe's 'extproc' handling). For DOS one should first invent a corresponding batch file and codify it in \texttt{C<ALTERNATIVE_SHEBANG>} (see the \texttt{F<INSTALL>} file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the \texttt{C<.pl>} extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating \texttt{C<.pl>} with the interpreter, NT people can use: \texttt{C<SET PATHEXT=%PATHExt%;.PL>} to let them run the program \texttt{C<install-linux.pl>} merely by typing \texttt{C<install-linux>].}

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

I<IMPORTANT!>: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

=head2 Can I write useful Perl programs on the command line?

Yes. Read L<perlrun> for more information. Some examples follow. (These assume standard Unix shell quoting rules.)
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *

# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *

# remove (most) comments from C program
perl -0777 -pe 's/\*\*/{}gs' foo.c

# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X, @ARGV)' *

# find first unused uid
perl -le 'Si++ while getpwuid(Si); print $i'

# display reasonable manpath
echo $PATH | perl -nl -072 -e 's![^/\+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}'

OK, the last one was actually an Obfuscated Perl Contest entry. :-)

=head2 Why don't Perl one-liners work on my DOS/Mac/VMS system?

The problem is usually that the command interpreters on those systems have rather different ideas about quoting than the Unix shells under which the one-liners were created. On some systems, you may have to change single-quotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single % to a %%.

For example:

# Unix
perl -e 'print "Hello world\n"

# DOS, etc.
perl -e 'print \"Hello world\n"

# Mac
print "Hello world\n"
(then Run "Myscript" or Shift-Command-R)

# VMS
perl -e "print ""Hello world\n"

The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd probably have better luck like this:
perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>""

Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control characters.

Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks', may make one-liners easier to write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)

[Some of this answer was contributed by Kenneth Albanowski.]

=head2 Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like "Why do I get 500 Errors" or "Why doesn't it run from the browser right when it runs fine on the command line", see these sources:

WWW Security FAQ
http://www.w3.org/Security/Faq/

Web FAQ
http://www.boutell.com/faq/

CGI FAQ
http://www.webthing.com/tutorials/cgifaq.html

HTTP Spec
http://www.w3.org/pub/WWW/Protocols/HTTP/

HTML Spec
http://www.w3.org/TR/REC-html40/
http://www.w3.org/pub/WWW/MarkUp/

CGI Spec
http://www.w3.org/CGI/

CGI Security FAQ
http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt

=head2 Where can I learn about object-oriented Perl programming?
A good place to start is L<perltoot>, and you can use L<perlobj>, L<perlboot>, and L<perlbot> for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.

=head2 Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with L<perlxstut>, moving on to L<perlxs>, L<xsubpp>, and L<perlguts>. If you want to call Perl from C, then read L<perlembed>, L<perlcall>, and L<perlguts>. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.

=head2 I've read perlembed, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?

Download the ExtUtils::Embed kit from CPAN and run `make test`. If the tests pass, read the pods again and again and again. If they fail, see L<perlbug> and send a bug report with the output of C<make test TEST_VERBOSE=1> along with C<perl -V>.

=head2 When I tried to run my script, I got this message. What does it mean?

A complete list of Perl's error messages and warnings with explanatory text can be found in L<perldiag>. You can also use the splain program (distributed with Perl) to explain the error messages:

perl program 2>diag.out
splain [-v] [-p] diag.out

or change your program to explain the messages for you:

use diagnostics;

or

use diagnostics -verbose;

=head2 What's MakeMaker?

This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see L<ExtUtils::MakeMaker>.
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Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qz2C/Pod-Simple-3.28.tar.gz-cosi-expand-archive-Tlm8aDDs/Pod-Simple-3.28/t/perlfaq.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Checker -- check the Pod syntax of a document

=head1 SYNOPSIS

perl -MPod::Simple::Checker -e "exit Pod::Simple::Checker->filter(shift)->any_errata_seen" thingy.pod

=head1 DESCRIPTION

This class is for checking the syntactic validity of Pod. It works by basically acting like a simple-minded version of L<Pod::Simple::Text> that formats only the "Pod Errors" section (if Pod::Simple even generates one for the given document).

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Checker>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.
This module is managed in an open GitHub repository, L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

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This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
=item * Allison Randal <allison@perl.org>
=item * Hans Dieter Pearcey <hdp@cpan.org>
=item * David E. Wheeler <dwheeler@cpan.org>
=back
=cut

Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/Checker.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

=head1 SYNOPSIS
require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text {
    my($self, $text) = @_; 
    ...
}

sub start_head1 {
    my($self, $attrs) = @_; 
    ...
}

sub end_head1 {
    my($self) = @_; 
    ...
}

...and start_/end_ methods for whatever other events you want to catch.

=head1 DESCRIPTION

This class is of interest to people writing Pod formatters based on Pod::Simple.

This class (which is very small -- read the source) overrides Pod::Simple's _handle_element_start, _handle_text, and _handle_element_end methods so that parser events are turned into method calls. (Otherwise, this is a subclass of L<Pod::Simple> and inherits all its methods.)

You can use this class as the base class for a Pod formatter/processor.

=head1 METHOD CALLING

When Pod::Simple sees a "=head1 Hi there", for example, it basically does this:

$parser->_handle_element_start( "head1", \%attributes );
$parser->_handle_text( "Hi there" );
$parser->_handle_element_end( "head1" );

But if you subclass Pod::Simple::Methody, it will instead do this when it sees a "=head1 Hi there":

$parser->start_head1( \%attributes ) if $parser->can('start_head1');
$parser->handle_text( "Hi there" ) if $parser->can('handle_text');
If Pod::Simple sends an event where the element name has a dash, period, or colon, the corresponding method name will have a underscore in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz and end_foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/theory/pod-simple.git> and send patches!

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Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::XMLOutStream -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::XMLOutStream -e \
  "exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \
  thingy.pod

=head1 DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses
Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from
L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its
documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>

=head1 ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing
ASK ME!

If you actually want to use Pod as a format that you want to render to XML (particularly if to an XML instance with more elements than normal Pod has), please email me (C<sburke@cpan.org>) and I'll probably have some recommendations.

For reasons of concision and energetic laziness, some methods and options in this module (and the dozen modules it depends on) are undocumented; but one of those undocumented bits might be just what you're looking for.

SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

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AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:
Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qtZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/XMLOutStream.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

=over

=item $token->text

This returns the text that this token holds. For example, parsing CZ<>foo will return a C start-token, a text-token, and a C end-token. And if you want to get the "foo" out of the text-token, call C<$token->text>

=item $token->text(I<somestring>)

This changes the string that this token holds. You probably won't need to do this.

=item $token->text_r()

=cut

This returns a scalar reference to the string that this token holds. This can be useful if you don't want to memory-copy the potentially large text value (well, as large as a paragraph or a verbatim block) as calling \$token->text would do.

Or, if you want to alter the value, you can even do things like this:

```perl
for ( $\{ \$token->text_r \} ) {  # Aliases it with $_ !!
    s/ The / the /g; # just for example
    if( 'A' eq chr(65) ) {  # (if in an ASCII world)
        tr/#xA0/#x/;  
        tr/#xAD/#/d;
    }
    ...
    # or however you want to alter the value...
}
```

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call

```perl
C<< Pod::Simple::PullParserTextToken->new( I<text> ) 
>>
```

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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=back
=cut

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No license file was found, but licenses were detected in source scan.

sub dump { ']' . _esc( @{ $_[0] } ) . ']' }

# JUNK:

sub _esc { return " unless @_; my @out; foreach my $in (@_) { push @out, '"'. $in . '"'; $out[-1] =~ s/([\^\-\:\\\\\<\:\\\>"\/\=\?\+\|\[\]\{\}\_a-zA-Z0-9_\`~\!\#\%\^\&\*\(\)])/sprintf( (ord($1) < 256) ? "\x%02X" : "\x{%X}", ord($1)) /eg; } return join ',', @out; }


=head1 NAME

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

Given a $parser that's an object of class Pod::Simple::PullParser
(or a subclass)...  

while(my $token = $parser->get_token) {
    $DEBUG and print "Token: ", $token->dump, "\n";
    if($token->is_start) {
        ...access $token->tagname, $token->attr, etc...
    } elsif($token->is_text) {
        ...access $token->text, $token->text_r, etc...
    } elsif($token->is_end) {
        ...access $token->tagname...
    }
}

(Also see L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should
get an object of a subclass of Pod::Simple::PullParserToken.

Subclasses will add methods, and will also inherit these methods:

=over

=item $token->type

This returns the type of the token. This will be either the string
"start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what
subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like
$token->isa('Pod::Simple::PullParserEndToken'), but that's not so
pretty as using just \$token->type, or even the following shortcuts:

=item \$token->is_start

This is a shortcut for \C<< \$token->type() eq "start" >>

=item \$token->is_text

This is a shortcut for \C<< \$token->type() eq "text" >>

=item \$token->is_end

This is a shortcut for \C<< \$token->type() eq "end" >>

=item \$token->dump

This returns a handy stringified value of this object. This is useful for debugging, as in:

while(my \$token = \$parser->get_token) {
  \$DEBUG and print "Token: ", \$token->dump, "\n";
  ...
}

=head1 SEE ALSO

My subclasses:
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>

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Pod::Simple::RTF -- format Pod as RTF

perl -MPod::Simple::RTF -e "exit Pod::Simple::RTF->filter(shift)->any_errata_seen" thingy.pod > thingy.rtf

NAME

Pod::Simple::RTF -- format Pod as RTF

SYNOPSIS

perl -MPod::Simple::RTF -e "exit Pod::Simple::RTF->filter(shift)->any_errata_seen" thingy.pod > thingy.rtf

DESCRIPTION
This class is a formatter that takes Pod and renders it as RTF, good for viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you call C<parse_file> (or a similar method) on it:

=over

=item $parser->head1_halfpoint_size( I<halfpoint_integer> )
These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

=item $parser->head2_halfpoint_size( I<halfpoint_integer> )
This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

=item $parser->head3_halfpoint_size( I<halfpoint_integer> )
This method sets the size (in half-points, like 15 for 7.5-point) that the header on each page will appear in. The header is usually just "I<modulename> p. I<pagenumber>".

=item $parser->head4_halfpoint_size( I<halfpoint_integer> )
This method sets the size (in half-points, like 26 for 13-point) that normal paragraphic text will appear in.

=item $parser->normal_halfpoint_size( I<halfpoint_integer> )

=item $parser->codeblock_halfpoint_size( I<halfpoint_integer> )
This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

=item $parser->no_proofing_exemptions( I<true_or_false> )
Set this value to true if you don't want the formatter to try putting a hidden code on all Perl symbols (as best as it can notice them) that labels them as being not in English, and so not worth spellchecking.

=item $parser->doc_lang( I<microsoft_decimal_language_code> )
This sets the language code to tag this document as being in. By default, it is currently the value of the environment variable C<RTFDEFLANG>, or if that's not set, then the value 1033 (for US English).

Setting this appropriately is useful if you want to use the RTF to spellcheck, and/or if you want it to hyphenate right.

Here are some notable values:

1033  US English  
2057  UK English  
3081  Australia English  
4105  Canada English  
1034  Spain Spanish  
2058  Mexico Spanish  
1031  Germany German  
1036  France French  
3084  Canada French  
1035  Finnish  
1044  Norwegian (Bokmal)  
2068  Norwegian (Nynorsk)

=back

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>, L<RTF::Generator>

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No license file was found, but licenses were detected in source scan.

# ChangeLog for Pod::Simple dist
#---------------------------------------------------------------------------

2013-05-04   David E. Wheeler <david@justatheory.org>
* Release 3.28

Removed use of 'done_testing' in t/white.t, which was added in v3.27. Thanks to Paul Howarth for the catch.

Fixed improperly calculated number of skipped tests in t/xhtml01.t when HTML::Entities is not installed.

2013-05-03   David E. Wheeler <david@justatheory.org>
* Release 3.27
Added new warnings as defined by Pod::Checker, thanks to RJBS:
+ "=over" without "=back"
+ "L<>" starts or ends with whitespace
+ raw "|" or "/" in "L.<text|link>" text

Added ->keep_encoding_directive, which is false by default, to prevent formatters from emitting a document's 'encoding' directive in most cases. That they emitted the encoding was a bug introduced in v3.26 (RT #84093). Now, only the DumpAsText and DumpAsXML formats set it to true. Patch from Patrice Dumas.

2013-02-27  David E. Wheeler <david@justatheory.org>
* Release 3.26

Fixed another test script to skip all tests when Encode is not installed.

Added 'encoding()' and 'detected_encoding()' to return the current encoding and the encoding actually to decode the input file. The value from "=encoding" is also now kept in the output tree. Patch from Patrice Dumas (RT #74390).

2013-02-16  David E. Wheeler <david@justatheory.org>
* Release 3.25

Improved the warning when "=item" types mismatch within one "=over"/"=back" block.

2013-02-14  David E. Wheeler <david@justatheory.org>
* Release 3.24

Fixed corner case bug for unlikely scenario in which non-UTF-8 text could be parsed as UTF-8. Grant McLean.

XHTML IDs can no longer end with punctuation. Thanks to Smylers for the patch.

Fixed test failure on Perl 5.6.2.

Changed the default installation location from "perl" to "site" on 5.12 and higher, since as of that version of Perl, dual-life modules no longer need to be installed in "perl" to replace in-core versions. Patch from tzccinct.

Fixed hash order dependency test failures on Perl 5.17. Thanks to Yves Orton for the patch.

Inlined the code that tries to guess a Pod file's encoding. This
reduces the time Pod::Simple takes to build the core Perl documentation by 15-20%. Thanks to Dagfinn Ilmari Mannsker for the patch!

Added a warning when "=item" types mismatch within one "=over"/"=back" block. Marc Green/Google Summer of Code, with assist from RJBS.

Fixed regression introduced in 3.22 in which "C< >" tags were incorrectly treated as verbatim text in table of contents items emitted by Pod::Simple::XHTML. Thanks to Randy Stauner for the report and to Thomas Sibley for the fix!

Loosened up the matching of "L< >" tags for man pages so that they allow names with dots, underscores, and any other chararacters other than "/", just so long as they end in '[(a-zA-Z0-9]+)'. Thanks to Dave Rolsky and Kevin Ryde for the reports (RT #82975 & RT #82972).

Fixed inverted mapping of "keyboard" to "kbd" in Pod::Simple::HTML. Thanks to Robert Boisvert for the bug report (RT #79201).

Added two new Tagmap entries to Pod::Simple::HTML: "preformat" maps to "pre", and "teletype" maps to "tt". Suggested by Robert Boisvert (RT #79201).

"X< >" tags are now ignored by the pull parser when it searches for titles, as is any trailing whitespace. Thanks to Patrice Dumas for the report (RT #74389).

2012-08-14 David E. Wheeler <david@justatheory.org>
* Release 3.23

Eliminated nested elements in table of contents (index) items output of Pod::Simple::XHTML. This was especially problematic for headers that included links, as the TOC then got nested anchor elements, which simply would not work. Thanks to Ben Bullock for the report and test case (RT #77686).

Fixed semantically invalid nested XHTML generated by Pod::Simple::XHTML since v3.21. Gisle Aas.

Improved support for nested "C< >" tags in Pod::Simple::XHTML. Gisle Aas.

No longer tries to decode a string with the "utf8" flag set, as the double-decoding only triggered an error. Grant McLean.
Added documentation note that the API expects encoded text (octets). Grant McLean.

Added "parse_characters()" option to specify that strings to are already decoded from octets into characters. Grant McLean.

2012-05-27 David E. Wheeler <david@justatheory.org>
* Release 3.22

Fix but where Pod::Simple would whine about non-ASCII bytes in code or comments. Now only does so for Pod (in the absence of an "=encoding" tag. Broken in 3.21. Grant McLean.

2012-05-23 David E. Wheeler <david@justatheory.org>
* Release 3.21

NOTE: COMPATABILITY CHANGE: The 'codes_in_verbatim' option in Pod::Simple::XHTML is no longer enabled by default. This brings it agreement with the other formatting classes, and eliminates unexpected behavior in XHTML-formatted Pod. Users who depended on this functionality can still get it by enabling 'codes_in_verbatim' in their code.

Fixed some typos in the documentation. Thanks to Jonathan Yu via the Debian packagers via Florian Ragwitz (RT #75532).

Now emit a warning the first time a non-ASCII byte is encountered when no "=encoding" has been seen. Grant McLean.

When a non-ASCII byte is encounted before an "=encoding" line has been seen, a heuristic (as described in perlpodspec) is applied to select UTF-8 encoding if the non-ASCII bytes form a valid UTF-8 byte sequence, or Latin-1 otherwise. Grant McLean.

Added 'handle_code' method to Pod::Simple::XHTML. This allows subclasses to override the handling of verbatim blocks, and makes for a more cohesive interface, to boot. Gisle Aas.

Subsequent text segments are now joined together and passed as a single unit to text handling code. This makes it easier for custom handlers to process complete blocks of text in a single call to 'handle_text', rather than in dribs and drabs. Gisle Aas.

Replaced naive text wrapping code in Pod::Simple::DumpAsXML with Text::Wrap, which was already used for similar purposes elsewhere in Pod::Simple. Gisle Aas.
2012-03-01   David E. Wheeler <david@justatheory.org>
* Release 3.20

Removed use of 'done_testing' in t/xhtml15.t, which was added in
v3.19. Thanks to Paul Howarth for the catch.

Fixed quoting of links in a regular expression Pod::Simple::Text.
Reported by Father Chrysostomos.

Fix test failure on case-insensitive, non-case-preserving file systems
(VMS I'm looking at *you*). Patch from Craig A. Berry.

Pod::Simple::HTML no longer emits "href="#__top"" if a TOC
(index) is not output. Patch from Rick Myers.

Fixed links in the TOC of XHTML output to use IDs derived from encoded
text, rather than raw Pod, so that it will link to the ID actually
generated for the section. Thanks to Randy Stauner for the report
(with test case!) (RT #72544).

PullParser now throws an exception on an attempt to set a source
more than once. Necessary because data from the previous source
will be cached, so the new source would be ignored anyway. Create a
newPullParser, instead. Thanks to Paul Boldra for the report (RT
#74265).

2011-08-23   David E. Wheeler <david@justatheory.org>
* Release 3.19

Fixed occasional test failure when tests are run in parallel
(HARNESS_OPTIONS=j6:c). Thanks to Alexei Znamensky for the report and
Marc Green for the fix.

Added "pod_handler" option. This is a callback that can be used to
inspect the content on a "=pod" line. Marc Green/Google Summer of
Code.

Added tests for proper line-ending parsing from the previous
release. The tests were in the repository, but didn't make it into
the MANIFEST or, therefore, the release. Reported by Marc Green.

Added the 'parse_empty_lists' option. When enabled, Pod::Simple
will recognize empty lists (that is, a blocks with '='over' and
'='back' but nothing in between). Disabled by default. Marc
Green/Google Summer of Code.

Added the "whiteline_handler" attribute. It's much like
"code_handler", "cut_handler", and "pod_handler", except it's
triggered on lines that contain only whitespace characters. Marc Green/Google Summer of Code.

Added "raw" attribute to L<> treelet that contains the L<>'s raw contents. Marc Green/Google Summer of Code.

Pod directives autoclosed by Pod::Simple are now denoted as such by the new "fake_closer" attribute. Marc Green/Google Summer of Code.

Fixed incompatibility with Pod::Simple::HTMLBatch in Pod::Simple::XHTML. Patch by Eric Johnson.

2011-07-16  David E. Wheeler <david@justatheory.org>
* Release 3.18

Pod::Simple now properly parses Pod files using Mac OS Classic line-endings (\r). Marc Green/Google Summer of Code.

Fixed test failure in 't/search50.t when the test finds a .pod but the module is in a .pm. Thanks to the cpan-testers who reported this when the test searched for Capture::Tiny.

2011-07-09  David E. Wheeler <david@justatheory.org>
* Release 3.17

Documented tertiary methods. Patch from Shawn H Corey.

Added "backlink" option to Pod::Simple::XHTML. Thanks to Marc Green/Google Summer of Code for the pull request.

Typos fixed in Pod::Simple::HTMLBatch. Reported by Shawn H Corey.

Fixed quoting of value returned by a "strip_verbatim_indent()" code reference so that regex meta characters are properly escaped.

Added "anchor_items" option to Pod::Simple::XHTML. This allows text items (which are output as <dt> elements) to have IDs that can be referenced in the "#" part of a URL. Marc Green/Google Summer of Code.

Added "recurse" option to Pod::Simple::Search. It's enabled by default; disable it to turn off recursion into subdirectories. Marc Green/Google Summer of Code.

Added documentation to clarify the behavior of the "content_seen" method. Thanks to Olaf Alders for the pull request.
2011-03-14  David E. Wheeler <david@justatheory.org>
* Release 3.16

Fixed invalid HTML generated for nested lists by Pod::Simple::XHTML
(Fitz Elliott).

Replaced the invalid "<nobr>" tag -- created for "S<>" -- with
'&lt;span style="white-space: nowrap;"&gt;' (Fitz Elliott).

Fixed some nerbles in our own Pod (Michael Stevens)

Improved the "Minimal code" example in Pod::Simple::HTML. The key
is to use pase_file(), not parse_from_file() (which should
otherwise be undocumented, and is just there for Pod::Parser
compatibility. Thanks to prodding from var Arnfjr Bjarmason (RT
#65428).

Added the html_charset() and html_encode_chars() attributes to
Pod::Simple::XHTML. Inspired by a bug report from Agent Zhang
() (RT #29587).

Added "Minimal code" example to the Pod::Simple::XHTML documentation.

Fixed mispelling of the ":encoding" markup in the parser (it was
spelled ":encode"). Thanks to "TTY" for the patch. (RT #24820).

2010-11-11  David E. Wheeler <david@justatheory.org>
* Release 3.15

Removed "perlpod.pod" and "perlpodspec.pod". These now just live
in the Perl core.

Fixed stylesheet names output by HTMLBatch to match the names of
the actual stylesheet files (broken in 3.09). Thanks to Kevin Ryde
for the report (RT #56725).

Added missing closing slash to the CSS links in the XHTML output.
Thanks to HarleyPig for the patch!

Added parens around bar "qw(...)" in t/xhtml05.t. Thanks to Jerry
D. Hedden for the patch.

Improved the Pod::Simple::HTML docs. Thanks to Gabor Szabo for the
patch.

Pod::Simple::XHTML now properly encodes entities in URLs in the
anchor tag. Thanks to John McNamara for the report (RT-60249).
Pod::Simple::HTML and XHTML now strip whitespace from the end of section names that appear as anchor names for headers (in HTML) and IDs (in XHTML). Such whitespace appeared when "X<>" entities were stripped out but not the space between them (RT-56572).

Make test "t/search50.t" always pass on case-insensitive file systems rather than just skip VMS.

2009-04-27
* Release 3.14

Removed explicit loading of UNIVERSAL. RJBS.

Reversed the change applied in release 3.09 to fix RT #12239. POD tag found inside a complex POD tag (e.g., "C<<< I<foo> >>>") is again parsed as a tag embedded in a tag instead of text and entities. The previous interpretation of `perldoc perlpod` was mistaken. (RT #55602 from Christopher J. Madsen).

2009-12-17    David E. Wheeler <david@justatheory.org>
* Release 3.13

Removed deleted test file from MANIFEST.

2009-12-17    David E. Wheeler <david@justatheory.org>
* Release 3.12

Removed "All rights reserved" from all files.

Added acknowledgements to man.he.net and search.cpan.org for permission to link man pages and Perl module links to their sites in the output of Pod::Simple::HTML and Pod::Simple::XHTML.

Add "html_h_level" option to Pod::Simple::XHTML and ::HTML to allow a =head1 to become an <h2> and so on. RJBS.

Add batch_mode_page_object_init() method to Pod::Simple::XHTML. This allows it to be used by Pod::Simple::HTMLBatch.

Fixed a regression in Pod::Simple::XHTML where '=begin html' blocks were incorrectly escaped rather than simply passed through unmolested. RJBS.

Removed the undocumented "fullstop_space_harden" attribute, which apparently was only used by Pod::Text a very long time ago.

2009-12-09    David E. Wheeler <david@justatheory.org>
* Release 3.11
Restored code to HTMLBatch that allows the TOC (index) to be created in batch jobs (RT #52324 from Martin J. Evans).

Added resources to META.yml, including bug tracker, license, and repository.

Turned man page links into links to man.he.net in Pod::Simple::HTML and Pod::Simple::XHTML output. Subclass and override resolve_man_page_link() to use a different URL.

Added the resolve_pod_page_link() and resolve_man_page_link() methods to Pod::Simple::XHTML to make it easier for subclasses to change the URLs created for POD and man page links.

Fixed the output of entities in L<> tags by Pod::Simple::XHTML.

Fixed the output of POD links from Pod::Simple::XHTML so that the section part (/foo) is turned into a proper fragment identifier (#foo) in the resulting search.cpan.org link.

Pod::Simple::Text now outputs URLs for links created in the L<text|URL> format. For example, L<Perl|http://perl.org> is now output as "Perl <http://perl.org>" rather than just as "Perl".

Updated perlpod.pod and perlpodspefic.pod to sync up with Perl core (and to be released in Perl 5.12). Changes include:
* Removing the prohibition against L<text|href>
* Deprecation of L<section> and L<"section">
* Legalization of "=begin formatname parameter"

A couple of bug fixes in Pod::Simple::HTML from Graham Barr.

Added the do_section() method to Pod::Simple::HTML. Graham Barr.

Word-smithed the "DESCRIPTION" a bit and wrote the README.

Synced up all module version numbers to 3.11 except for Pod::Simple::HTMLLegacy, which is at 5.01 and should not have its version number lowered.

2009-11-12 David E. Wheeler <david@justatheory.org>
* Release 3.10

Converted test files that had DOS endings to have Unix endings (RT #50922 from Steve Hay).

Skip tests on VMS where the lack of filename case preservation can
wreak havoc (RT #51184 from Craig A. Berry).

Fix nested definition list format in the XHTML output
(RT #51187 from Lars D).

Added some files missing from the MANIFEST (and therefore the
distribution) in the last two releases.

2009-10-27  Allison Randal <allison@perl.org>
* Release 3.09

Add support for an index (TOC) in the XHTML output from David E.
Wheeler.

Add strip_verbatim_indent() from David E. Wheeler.

Added the "nocase" option to PullParser's get_title(),
get_version(), get_description(), and get_author() methods. This
allows one to fetch the contents of those sections regardless of
the case of the labels (e.g., "NAME" and "Name" and "name" are all
valid). Graham Barr.

Added the search_class() accessor to Pod::Simple::HTMLBatch.
David E. Wheeler.

XHTML output now properly encodes entities in all places, not just
in verbatim blocks and code spans. David E. Wheeler.

Fixed XHTML to output definition lists when it should, rather than
(broken) unordered lists. David E. Wheeler.

Fixed XHTML so that multiparagraph list items work correctly.
David E. Wheeler.

Fixed XHTML ordered list output so that it does not include the
number specified in the POD in the output. This is on a par with
out the HTML output works. David E. Wheeler.

Applied URL patch from Leon Brocard for The Perl Journal archives.

Fixed test failures with older versions of HTML::<Entities (RT #43903
from Salvador Tercia).

Changed CSS files generated by HTMLBatch to be no more than 8.3
characters long. (RT #40450 from Renee Baeker)

Added entity handling for E<sol> and E<verbar> to Pod::Simple::<XHTML.
(RT #49615 from Chas Owens.)
Fixed a bug in Pod::Simple::HTML where a definition term item with no corresponding definition item would be output with no closing </a></dt>. (RT # 37107 from Kevin Ryde).

Added entity handling for numeric entities to Pod::Simple::XHTML, following perlpod specification.

A POD tag found inside a complex POD tag (e.g., "C<<< C<foo> >>>") is now properly parsed as text and entities instead of a tag embedded in a tag. This is in compliance with `perldoc perlpod` (RT #12239 from Michael Schwern).

Thanks to David E. Wheeler for applying patches, resolving bugs, and generally getting ready for the release.

2009-07-16 Allison Randal <allison@perl.org>
* Release 3.08

Fix installdirs for Perl versions where Pod::Simple was core; RT#36446 & RT#39709, thanks to Jerry Hedden.

Fix encoding handling for code in paragraphs; RT#45829, thanks to David Wheeler.

2008-06-04 Allison Randal <allison@perl.org>
* Release 3.07

Fix module dependencies, make HTML::Entities optional and require Test::More.

2008-06-03 Allison Randal <allison@perl.org>
* Release 3.06

Fix bugs related to passing $1 to File::Spec, reported by Andrew Hamlin and John McNamara.

Applied a suggested fix from Kevin Ryde to return a successful exit code when Pod::Simple::HTML is run from the command line.

Fix handling of complex L<URL> entries, thanks to tests supplied in RT#4896.

Fix incorrect handling of S<> entries made up of entirely whitespace, thanks to test case from Andreas Koenig.

Launch Pod::Simple::XHTML, an XHTML compliant, more easily extensible HTML formatter.
Add feature to parse additional text after =begin target as a block title, requested by Adam Kennedy.

Thanks to Hans Dieter Pearcey for applying patches, resolving bugs, and generally getting ready for the release.

2007-03-03 Allison Randal <allison@perl.org>
* Release 3.05

Standardized all test files on 8.3 naming scheme for Perl core.

Applied test patches from Jerry Hedden for Perl core when Encode not installed.

Applied test patch from Ken Williams for 5.005_04 compatibility.

Applied a patch from Christopher Madsen to fix architecture directory searches on Gentoo.

Fixed a failing search test on Debian-based distributions caused by Debian stripping Pod documentation out of core modules. (Three cheers to the CPAN testers and James Ponza for sending enough reports that I could work out the pattern.)

2006-01-18 Allison Randal <allison@perl.org>
* Release 3.04

Applied test patches for Perl core integration from Steve Peters.

Added a 'reinit' method to Pod::Simple::BlackBox for Russ Allbery so Pod::Man can provide backward compatibility to existing users (such as Module::Build and ExtUtils::MakeMaker).

Applied patch for extracting case-preserved package names on VMS from Craig Berry.

2005-11-21 Allison Randal <allison@perl.org>
* Release 3.03

Applied whitespace patches for Pod::Man and Pod::Text from Russ Allbery.

Applied validation patches to Pod::Simple::HTML from Graham Barr.

2004-05-24 Sean M. Burke <sburke@cpan.org>
* Release 3.02

Just fixing some typos in the CSS generated by Pod::Simple::HTMLBatch.
No big changes to the main modules, but there's many changes to the important Pod::Simple::HTML module.

Also, new modules:
Pod::Simple::HTMLBatch
Pod::Simple::HTMLLegacy
Pod::Simple::Progress
Pod::Simple::Search
and tests for these (well, most).

Some prettying up of the Makefile.PL.

The test 00about.t is a bit more careful and verbose now.

The docs are still incomplete, esp. for Pod::Simple::HTML and Pod::Simple::HTMLBatch, which I hope to improve quite soon.

2004-05-07  Sean M. Burke <sburke@cpan.org>
* Release 2.06

Allison Randal brilliantly refactors a huge monolithic sub in Blackbox.pm. Code is now actually sanely readable!

I add the new option-attributes fullstop_space_harden and codes_in_verbatim, and the two methods abandon_output_string and abandon_output_fh. Not yet documented.

New test fullstop_spaces.t and new corpus document greek_iso_8859_7.pod.

Another version should be forthcoming in a few days that has the new Pod::Simple::HTML stuff in it.

Note to self: document =extend and =encoding in perlpodspec ASAP!

2003-11-04  Sean M. Burke <sburke@cpan.org>
* Release 2.05 -- bugfix version

In an attempt to stop Perl 5.6 versions from going completely crazy, I've tried to basically turn off all Unicode/utf8 support under 5.6. Under 5.8 and above, Unicode should work fine, and
under 5.6, all Unicode characters should be replaced with a little "can't render" symbol, either a "" or a "?".
Many many thanks to Jarkko Hietaniemi for helping out.

(Works under 5.005 now too?)

2003-10-10 Sean M. Burke <sburke@cpan.org>
* Release 2.04 -- minor bugfix version

* Added some code to insulate Pod::Simple to runtime changes in the value of $/. Thanks to Iain Truskett for catching this.
* Added FILENO method to TiedOutFH.pm, to work quietly under some perls. Thanks to Jochen Stenzel for catching this.
* Fixed some tests that erroneously failed under some 5.6's because of chdir(s) in *.t files messing up @INC. Thanks to many who caught this, including Rocco Caputo.

2003-09-07 Sean M. Burke <sburke@cpan.org>
* Release 2.03 -- minor upgrade
* A =head[1234] command now closes any currently open =over, and warns.
* Fixing a few obscure bugs, including one to do with the Makefile.
* Added some tests for those bugs.

2003-09-02 Sean M. Burke <sburke@cpan.org>
* Release 2.02 -- fixing a testing bug
* Autrijus Tang found a silly bug of mine in corpustest.t's testing of corpus/t/nonesuch.txt. Fixed,
* I add encoding_nonesuch.t to test corpus/t/nonesuch.txt better.

2003-09-01 Sean M. Burke <sburke@cpan.org>
* Release 2.01
* Moved all version numbers up to 2.01 for reasons of Tibetan numerology.

* Implemented =encoding. Thanks a million to Jarkko, Autrijus, Dan Kogai, and many others for their help, patience, and encouragement.

It's not yet documented, but see ./t/corpus/*.txt for examples at least.

* Added 'use utf8' to all the modules. Byebye perl-5.005 compatibility, hello decent perl-5.6 compatibility.
2003-09-01 Sean M. Burke <sburke@cpan.org>
* Release 0.98
* At Michael Schwern's suggestion, a list that begins with a
"=item [number]\" line where number isn't a 1, is no longer
treated as an error, but instead is silently coerced into being a
text-item list, just as if it were "=item wubble" or whatever.

2003-08-12 Sean M. Burke <sburke@cpan.org>
* Release 0.97
* Looking goooooood. Not smelling so much like beta anymore!
* I think this might be the last version before I go
putting "use utf8" all over the place.

* Added placeholders for "=encoding" support. If you use
"=encoding", you'll get an error about "not yet implemented"
instead of "unknown directive".

* Rewrote Pod::Simple::Pullparser's get_title, and added
get_version, get_author, and get_description. Documented them.
Thanks to Graham Barr for contributing an initial get_title and
then being patient while I seemed to do nothing with it for months
on end!

* More tests.

Otherwise just minor changes since last version:
* Fixed error in Pod::Simple::RTF.
* Added new but undocumented methods to Pod::Simple:
  unaccept_directive(s) unaccept_target(s) unaccept_code(s)
* Corrected '=back without =open' error to '=back without =over'
* A little tweaking to the _verbatim_format code.
* Dump routines may use \x{NN} instead of \xNN format.
* Pod::Simple::HTML now uses VerbatimFormatted
* A few changes to DEBUG messages -- nothing you'd normally see.

2002-11-19 Sean M. Burke <sburke@cpan.org>
* Release 0.96
* Still kinda sorta beta.

* Much much more docs in this version. Only a few feature
changes:

* Added any_errata_seen to Pod::Simple. Should've been in there
ages ago. Oops!
* Fixed some errors in the experimental VerbatimFormatted code.
* Added is_tagname / is_tag to Pod::Simple::PullParserStartToken
and Pod::Simple::PullParserEndToken
* Added RTFDEFLANG stuff to Pod::Simple::RTF.

2002-11-10 Sean M. Burke <sburke@cpan.org>
* Release 0.95
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Now including perlpod and perlpodspec in the dist.

* Pod::Simple -- added parse_from_file
* Pod::Simple::RTF -- minor style changes, and minor change to the RTF-wrapping logic.
* Pod::Simple::BlackBox -- a =cut opening a block is no longer a fatal(ish) error.
* Pod::Simple::BlackBox -- added experimental new VerbatimFormatted stuff.

2002-10-16 Sean M. Burke <sburke@cpan.org>
* Release 0.94
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Pod::Simple::RTF -- minor style tweaks
* Pod::Simple::PullParserEndToken and ::PullParserStartToken -- added ->tag as an alias for ->tagname.
* Pod::Simple and Pod::Simple::BlackBox -- added tolerance for "=item * Foo" as a variant syntax for "=item *

Foo". Tests added/changed accordingly.
* Pod::Simple::HTML -- added <a name="..."> stuff, and a hack at doing something with X<...>.'s.

2002-09-29 Sean M. Burke <sburke@cpan.org>
* Release 0.93
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Pod::Simple -- added errors_seen attribute
* Pod::Simple::HTML -- added support for =for HTML ... directives, and =extend directives.
* Oh, and I added Pod::Simple::RTF in 0.92 but forgot to note it until now.

2002-09-29 Sean M. Burke <sburke@cpan.org>
* Release 0.92
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.
* Fixing bungled distribution.

2002-09-29  Sean M. Burke <sburke@cpan.org>
* Release 0.91
* Beta release. Much documentation still to write, many features
  still to add. The APIs might change in future versions.

* Pod::Simple::PullParserTextToken -- added 'text_r'

* Pod::Simple::PullParser -- added 'get_title' and
  'get_title_short' to

* Pod::Simple -- corrected wording of "Format for second =extend
  parameter" error message.

* Pod::PullParser -- made its filter() run as intended, like
  Pod::Simple's filter.

* Pod::Subclassing -- more docs

2002-09-11  Sean M. Burke <sburke@cpan.org>
* Release 0.90
* Beta release. Much documentation still to write, many features
  still to add. The APIs might change in future versions.

Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/ChangeLog

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

perl -MPod::Simple::Text -e \n  "exit Pod::Simple::Text->filter(shift)->any_errata_seen" \n  thingy.pod

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as
wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change
C<$Text::Wrap::columns> as you like.
This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back
NAME
perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

DESCRIPTION
This section of the FAQ answers questions related to programmer tools and programming support.

How do I do (anything)?
Have you looked at CPAN (see perlfaq2)? The chances are that someone has already written a module that can solve your problem. Have you read the appropriate man pages? Here's a brief index:

- Basics perlvars, perlfunc, perlmodlib, perlsub
- Execution perlrn, perldebug
- Functions perlfunc
- Objects perlref, perlmod, perlobj, perlite
- Data Structures perlref, perllo, perldsc
- Modules perlmod, perlmodlib, perlsub
- Regexes perlre, perlfunc, perlop, perlobj
- Moving to perl5 perltrap, perl
- Linking w/C perlxsut, perlxs, perlcall, perlugs, perlated

(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in perltoc.

How can I use Perl interactively?
The typical approach uses the Perl debugger, described in the perldebug(1) man page, on an `empty` program, like this:

perl -de 42

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?
In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?
Have you tried use warnings or used -w? They enable warnings to detect dubious practices.

Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

open(FH, "> /etc/cantwrite")

or die "Couldn't write to /etc/cantwrite: $!
"

Did you read perltrap? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.
Have you tried the Perl debugger, described in perldebug? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

How do I profile my Perl programs?
You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:

```perl
use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;
timethese($count, {
    'map' => sub { my @a = @junk;
        map { s/a/b/ } @a;
        return @a
    },
    'for' => sub { my @a = @junk;
        local $_;
        for (@a) { s/a/b/ ;
            return @a }
    };
});
```

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):

```
Benchmark: timing 10000 iterations of for, map...
    for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
    map:  6 secs ( 4.97 usr  0.00 sys =  4.97 cpu)
```

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

How do I cross-reference my Perl programs?
The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

```
perl -MO=Xref[,OPTIONS] scriptname.plx
```

Is there a pretty-printer (formatter) for Perl?
There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

```
set ai sw=4
map! ^O {^M}[^O^T
```

Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.
The a2ps at http://www.infres.enst.fr/~Demaille/a2ps/ does lots of things related to generating nicely printed output of documents.

Is there a ctags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

CodeMagicCD
http://www.codemagiccd.com/

Komodo
ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).

The Object System
(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

PerlBuilder
(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

Perl code magic
(http://www.petes-place.com/codemagic.html).

visiPerl+
http://helpconsulting.net/visiperl/, from Help Consulting.

For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

GNU Emacs
http://www.gnu.org/software/emacs/windows/ntemacs.html

MicroEMACS
http://members.nbci.com/uemacs/

XEmacs
http://www.xemacs.org/Download/index.html

or a vi clone such as

Elvis

Vile
http://vile.cx/

Vim
http://www.vim.org/


nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an
embedded Perl.
The following are Win32 multilanguage editor/IDESs that support Perl:
Codewright
http://www.starbase.com/
MultiEdit
SlickEdit
http://www.slickedit.com/
There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.
In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include
Bash
from the Cygwin package (http://sources.redhat.com/cygwin/)
Ksh
from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment
(http://www.research.att.com/sw/tools/uwin/)
Tcsh
Zsh
ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/
MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.
If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.
On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).
BBEdit and BBEdit Lite
are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/+).
Alpha
is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olm.net/+).
Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively
(http://www.hekkelman.com/+).
Where can I get Perl macros for vi?
For a complete version of Tom Christiansen's vi configuration file, see
http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz , the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.
Where can I get perl-mode for emacs?
Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.
In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.
Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and
highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.

How can I use curses with Perl?
The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.

How can I use X or Tk with Perl?
Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/


How can I generate simple menus without using CGI or Tk?
The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

What is undump?
See the next question on "How can I make my Perl program run faster?"

How can I make my Perl program run faster?
The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.

Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the "Selecting File I/O mechanisms" section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

How can I make my Perl program take less memory?
When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure.

If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.
Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's built-in malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:usemymalloc.

Is it unsafe to return a pointer to local data?
No, Perl's garbage collection system takes care of this.

```perl
sub makeone {
    my @a = (1 .. 10);
    return \@a;
}
for $i (1 .. 10) {
    push @many, makeone();
}
print $many[4][5], "\n";
print "@many\n";
```

How can I free an array or hash so my program shrinks?
You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-execute themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've heard reports that on Linux (Redhat 5.1) on Intel, undefined scalar will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undefined and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?
Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.

With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.

See http://www.perl.com/CPAN/modules/by-category/15_World_Wide_Web_HTTP_CGI/.

A non-free, commercial product, "The Velocity Engine for Perl", (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.
How can I hide the source for my Perl program?
Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of ``security``.
First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.
Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.
You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not just Perl).
If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like ``This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah." We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.
How can I compile my Perl program into byte code or C?
Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions. Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.
You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details.
If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in size!
In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.
How can I compile Perl into Java?
You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/ .
Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.
How can I get #!perl to work on [MS-DOS,NT,...]?
For OS/2 just use
  extproc perl -S -your_switches

---

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as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET PATHEXT=%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

Can I write useful Perl programs on the command line?
Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *

# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *

# remove (most) comments from C program
perl -0777 -pe 's{/A*,.*?\*/}{}gs' foo.c

# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV)' *

# find first unused uid
perl -e '$i++ while getpwuid($i); print $i'

# display reasonable manpath
echo $PATH | perl -nl -072 -e 's!\[^/+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}"

OK, the last one was actually an Obfuscated Perl Contest entry. :-)

Why don't Perl one-liners work on my DOS/Mac/VMS system?
The problem is usually that the command interpreters on those systems have rather different ideas about quoting than the Unix shells under which the one-liners were created. On some systems, you may have to change single-quotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single % to a %.

For example:
# Unix
perl -e 'print "Hello world\n"'

# DOS, etc.
perl -e "print \"Hello world\n\"

# Mac
print "Hello world\n"

(then Run "Myscript" or Shift-Command-R)

# VMS
perl -e "print "Hello world\n""

The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd probably have better luck like this:
perl -e "print <Ctrl-x>"Hello world\ns<Ctrl-x>""
Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control characters. Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)

[Some of this answer was contributed by Kenneth Albanowski.]

Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like ``Why do I get 500 Errors'' or ``Why doesn't it run from the browser right when it runs fine on the command line'', see these sources:

WWW Security FAQ
   http://www.w3.org/Security/Faq/
Web FAQ
   http://www.boutell.com/faq/
CGI FAQ
   http://www.webthing.com/tutorials/cgifaq.html
HTTP Spec
   http://www.w3.org/pub/WWW/Protocols/HTTP/
HTML Spec
   http://www.w3.org/TR/REC-html40/
   http://www.w3.org/pub/WWW/MarkUp/
CGI Spec
   http://www.w3.org/CGI/
CGI Security FAQ
   http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt

Where can I learn about object-oriented Perl programming?

A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.

Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with perlxstut, moving on to perlxs, xsubpp, and perl guts. If you want to call Perl from C, then read perle mbed, percall, and perl guts. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.

I've read perle mbed, perl guts, etc., but I can't embed perl in my C program; what am I doing wrong?

Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.

When I tried to run my script, I got this message. What does it mean?

A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:

   perl program 2>diag.out
   splain [-v] [-p] diag.out

or change your program to explain the messages for you:

   use diagnostics;

or

   use diagnostics -verbose;

What's MakeMaker?
This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a
Makefile.PL. For more information, see ExtUtils::MakeMaker.

AUTHOR AND COPYRIGHT
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to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple
comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-
8bV9qZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/t/perlfaqo.txt
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

=head1 SYNOPSIS

my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \$document_source );
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;

And elsewhere:

require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);

sub run {
    my $self = shift;
    Token:
    while(my $token = $self->get_token) {
        ...process each token...
    }
}

=head1 DESCRIPTION

This class is for using Pod::Simple to build a Pod processor -- but one that uses an interface based on a stream of token objects, instead of based on events.

This is a subclass of L<Pod::Simple> and inherits all its methods.

A subclass of Pod::Simple::PullParser should define a C<run> method that calls C<< $token = $parser->get_token >> to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit the end of the document.

=item $parser->unget_token( $token )

=item $parser->unget_token( $token1, $token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level way is to call C<set_source>.

=over
Or you can call these methods, which Pod::Simple::PullParser has defined to work just like Pod::Simple's same-named methods:

```
=over
=item $parser->parse_file(...)
=item $parser->parse_string_document(...)  
=item $parser->filter(...)
=item $parser->parse_from_file(...)  
=back
```

For those to work, the Pod-processing subclass of Pod::Simple::PullParser has to have defined a $parser->run method -- so it is advised that all Pod::Simple::PullParser subclasses do so. See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to call on a parser object that you haven’t started pulling tokens from yet:

```
=over

=item my $title_string = $parser->get_title

This tries to get the title string out of $parser, by getting some tokens, and scanning them for the title, and then ungetting them so that you can process the token-stream from the beginning.

For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!
$parser->get_title on that document will return "Hoo::Boy::Wowza -- Stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_title(nocase => 1);

In cases where get_title can't find the title, it will return empty-string ('"').

=item my $title_string = $parser->get_short_title

This is just like get_title, except that it returns just the modulename, if the title seems to be of the form "SomeModuleName -- description".

For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hoo::Boy::Wowza".

But if the document starts out:

=head1 NAME

Hooboy, stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hooboy, stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_short_title(nocase => 1);

If the title can't be found, then get_short_title returns empty-string ('"').
This works like get_title except that it returns the contents of the
"=head1 AUTHOR\n
Paragraph\n
" section, assuming that that section
isn't terribly long. To recognize a "=head1 Author\n
Paragraph\n
" section, pass the C<nocase> option:

$parser->get_author(nocase => 1);

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

This works like get_title except that it returns the contents of the
"=head1 DESCRIPTION\n
Paragraph\n
" section, assuming that that section
isn't terribly long. To recognize a "=head1 Description\n
Paragraph\n
" section, pass the C<nocase> option:

$parser->get_description(nocase => 1);

This works like get_title except that it returns the contents of
the "=head1 VERSION\n
[BIG BLOCK]\n
" block. Note that this does NOT return the module's C<$VERSION>!! To recognize a
"=head1 Version\n
[BIG BLOCK]\n
" section, pass the C<nocase> option:

$parser->get_version(nocase => 1);

You don't actually I<have> to define a C<run> method. If you're writing a Pod-formatter class, you should define a C<run> just so that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just writing a program that does something simple with a Pod::PullParser object (and not an object of a subclass), then there's no reason to bother subclassing to add a C<run> method.

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're writing a Pod-formatter class, you should define a C<run> just so that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just writing a program that does something simple with a Pod::PullParser object (and not an object of a subclass), then there's no reason to bother subclassing to add a C<run> method.

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,

=head1 SEE ALSO
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
<bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

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under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but
without any warranty; without even the implied warranty of
merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut
sub _old_get_title {  # some witchery in here
  my $self = $_[0];
  my $title;
  my @to_unget;

  while(1) {
    push @to_unget, $self->get_token;
    unless(defined $to_unget[-1]) {  # whoops, short doc!
      pop @to_unget;
      last;
    }
  }

  DEBUG and print "-Got token ", $to_unget[-1]->dump, "\n";

  (DEBUG and print "Too much in the buffer\n"),
  last if @to_unget > 25;  # sanity

  my $pattern = "";
  if (!$to_unget[-1] and $to_unget[-1]->tagname eq 'Para') {
    $pattern = join('',
      map {
        ($_.->type eq 'start') ? ('<" . $_->tagname . ">")
        : ($_.->type eq 'end' ) ? ('</" . $_->tagname . ">")
        : ($_.->type eq 'text' ) ? ($_.->text =~ m<^\[A-Z\]+>$s ? $1 : 'X')
        : 'BLORP'
      } @to_unget
    ) =~ m{<head1>NAME</head1><Para>(X|</[BCIFLS]>)+</Para>$}s
    ) {
      # Whee, it fits the pattern
      DEBUG and print "Seems to match =head1 NAME pattern\n";
      $title = "";
      foreach my $t (reverse @to_unget) {
        last if $t->type eq 'start' and $t->tagname eq 'Para';
        $title = $t->text . $title if $t->type eq 'text';
      }
      undef $title if $title =~ m<\s*$>;  # make sure it's contentful!
      last;
  }
  elsif ($pattern =~ m{<head(\d)>(.+)</head\d>$} and !( $1 eq '1' and $2 eq 'NAME' )) {
    # Well, it fits a fallback pattern
    DEBUG and print "Seems to match NAMEless pattern\n";
    $title = "";
  }
}
foreach my $t (reverse @to_unget) {
    last if $t->type eq 'start' and $t->tagname =~ m/^head\d$/s;
    $title = $t->text . $title if $t->type eq 'text';
}  
undef $title if $title =~ m<\s*$>;  # make sure it's contentful!

} else {
    DEBUG and $pattern and print "Leading pattern: $pattern\n";
}

# Put it all back:
$self->unget_token(@to_unget);

if(DEBUG) {
    if(defined $title) { print "Returning title <$title>\n" }  
    else { print "Returning title <>\n" }  
}

return " unless defined $title;
return $title;

Found in path(s):
* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-TIm8aDDs/Pod-Simple-3.28/lib/Pod/Simple/PullParser.pm
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=head1 NAME
Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS
perl -MPod::Simple::DumpAsXML -e \
"exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION
Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod 
and turns it into indented and wrapped XML. This class is of 
interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from 
L<Pod::Simple>.
L<Pod::Simple::XMLOutStream> is rather like this class. Pod::Simple::XMLOutStream's output is space-padded in a way that's better for sending to an XML processor (that is, it has no ignorable whitespace). But Pod::Simple::DumpAsXML's output is much more human-readable, being (more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class, except that it doesn't dump with XML syntax. Try them and see which one you like best!

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>

=head1 SUPPORT

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him; he's retired.

Pod::Simple is maintained by:
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=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsText -e \n"exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \nthingy.pod

=head1 DESCRIPTION

This class is for dumping, as text, the events gotten from parsing a Pod document. This class is of interest to people writing Pod formatters based on Pod::Simple. It is useful for seeing exactly what events you get out of some Pod that you feed in.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML>

L<Pod::Simple>

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Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to
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Pod::Simple is maintained by:

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=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

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* /opt/cola/permits/1000849041_1646171520.95/0/perl-Pod-Simple-3.28-4.el7.src.rpm-cosi-expand-archive-8bV9qzZC/Pod-Simple-3.28.tar.gz-cosi-expand-archive-T1m8aDDs/Pod-Simple-3.28/lib/Pod/Simple/DumpAsText.pm

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=head1 Pod::Simple version 3.28

Pod::Simple is a Perl library for parsing text in the Pod ("plain old documentation") markup language that is typically used for writing documentation for Perl and for Perl modules. The Pod format is explained L<perlpod>; the most common formatter is called C<perldoc>.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats.

=head2 Installation

To install this module, type the following:

perl Makefile.PL
make
make test
make install

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# TODO: let it be an option whether a given subclass even wants little treelets?

__END__

=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS

# a long story

=head1 DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the "section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section, such as "foo" for C<< LZ<<Stuff/foo> >>, and "bar" for C<< LZ<<Stuff/bIZ<<ar>> >>.
However, anyone particularly interested in getting the full value of
the treelet, can just traverse the content of the treelet
@$treelet_object. To wit:

```perl
% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper($_[1]{'section'}) } \n__PACKAGE__->new->parse_string_document("=head1 L<Foo/bI<ar>baz>>")
"

Output:
$VAR1 = bless( [
  ",
  {},
  'b',
  bless( [
    'T,
    {},
    'ar'
  ], 'Pod::Simple::LinkSection' ),
  'baz'
], 'Pod::Simple::LinkSection' );
```

But stringify it and you get just the text content:

```perl
% perl -MData::Dumper -e
"use base qw(Pod::Simple::Methody);
sub start_L { print Dumper(" . $_[1]{'section'}") } \n__PACKAGE__->new->parse_string_document("=head1 L<Foo/bI<ar>baz>>")
"

Output:
$VAR1 = 'barbaz';
```

=head1 SEE ALSO

L<Pod::Simple>

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  jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
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  jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-
  jar/org/springframework/dao/support/DaoSupport.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-
  jar/org/springframework/transaction/support/SavepointManager.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-
  jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-
  jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-
  jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-
  jar/org/springframework/transaction/TransactionUsageException.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-
  jar/org/springframework/transaction/support/ResourceHolderSupport.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-
  jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-
  jar/org/springframework/transaction/TransactionUsageException.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-
  jar/org/springframework/transaction/SavepointManager.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-

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* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4.0-2-release-sources-1-jar/org/springframework/jca/context/SpringContextResourceAdapter.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4.0-2-release-sources-1-jar/org/springframework/jca/transaction/annotation/SpringTransactionAnnotationParser.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4.0-2-release-sources-1-jar/org/springframework/jca/transaction/annotation/TransactionManagementConfigurationSelector.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4.0-2-release-sources-1-jar/org/springframework/jca/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4.0-2-release-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
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* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-jar/org/springframework/transaction/support/SmartTransactionObject.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java
* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-jar/org/springframework/transaction/annotation/AnnotationDrivenBeanDefinitionParser.java
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* /opt/ws_local/PERMITS_SQL/1091709839_1600572212.55/0/spring-tx-4-0-2-release-sources-1-jar/org/springframework/jca/cci/core/CciOperations.java

1.2115 jboss-as-jpa-hibernate3 7.2.0.Final

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* /opt/cola/permits/1091709986_1654022876.246587/0/jboss-as-jpa-hibernate3-7-2-0-final-sources-jar/org/jboss/as/jpa/hibernate3/HibernateAnnotationScanner.java
1.2116 javax-inject 1
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* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Inject.java
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Scope.java
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* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Named.java
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Provider.java
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/package-info.java

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1.2120 e2fsprogs 1.42.9 16.el7
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/*
Index: tdbusa/tdb.c
===================================================================
--- tdbusa.orig/tdb.c
+++ tdbusa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
*/
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- - Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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** library. This does NOT imply that all of Samba is released
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdir:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJS))
$(MV) pic/$(BSD_LIB) .

---

Open Source Used In Data Center Network Manager 11.5(1) 23257
$(RM) -f ./*$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../*$(BSD_LIB)

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using the "WIP" test distributions or one from the hg or git
repository from the development branch, please contact me
(tytso@mit.edu) before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

------------------------------------------------------------------------

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Gadi Oxman, August 1995

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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5.10.3.Final

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Found in path(s):
* /opt/cola/permits/1110675992_1654022839.8908317/0/hibernate-search-serialization-avro-5-10-3-final-sources-1-
/*
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 */

Found in path(s):
* /opt/cola/permits/1110675992_1654022839.8908317/0/hibernate-search-serialization-avro-5-10-3-final-sources-1.jar/org/hibernate/search/indexes/serialization/avro/impl/AvroDeserializer.java
* /opt/cola/permits/1110675992_1654022839.8908317/0/hibernate-search-serialization-avro-5-10-3-final-sources-1.jar/org/hibernate/search/indexes/serialization/avro/impl/AvroSerializer.java
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* /opt/cola/permits/1110675992_1654022839.8908317/0/hibernate-search-serialization-avro-5-10-3-final-sources-1.jar/org/hibernate/search/indexes/serialization/avro/impl/ProtocolBuilderV1_0.java

1.2123 libgpg-error 1.12-3.el7

1.2123.1 Available under license:

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  jar/io/netty/handler/codec/http/ClientCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073984145_1595522779.18/0/netty-codec-http-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
* /opt/ws_local/PERMITS_SQL/1073984145_1595522779.18/0/netty-codec-http-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1073984145_1595522779.18/0/netty-codec-http-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
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  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /opt/ws_local/PERMITS_SQL/1073984145_1595522779.18/0/netty-codec-http-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /opt/ws_local/PERMITS_SQL/1073984145_1595522779.18/0/netty-codec-http-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionUtil.java
* /opt/ws_local/PERMITS_SQL/1073984145_1595522779.18/0/netty-codec-http-4-1-39-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
* /opt/ws_local/PERMITS_SQL/1073984145_1595522779.18/0/netty-codec-http-4-1-39-final-sources-1-
jar/io/netty/handler/codec/http/websocket/extensions/compression/PerMessageDeflateServerExtensionHandshaker.java

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jar/io/netty/handler/codec/http/websocket/extensions/compression/PerMessageDeflateDecoder.java

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jar/io/netty/handler/codec/http/websocket/extensions/compression/PerMessageDeflateEncoder.java

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jar/io/netty/handler/codec/spdy/SpdyProtocolException.java

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jar/io/netty/handler/codec/http/websocket/extensions/WebSocketClientExtensionHandshaker.java

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jar/io/netty/handler/codec/http/websocket/extensions/WebSocketServerExtensionHandshaker.java

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jar/io/netty/handler/codec/spdy/SpdyFrameDecoder.java

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* /opt/ws_local/PERMITS_SQL/1073984145_1595522779.18/0/netty-codec-http-4-1-39-final-sources-1-
jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java
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 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 * <p>The &lt;tt&gt;options&lt;/tt&gt; parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.&lt;/p&gt;
 * <p>The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:&lt;/p&gt;
 * &lt;p&gt;
 * &lt;code&gt;String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES &lt;/code&gt;
 * &lt;/p&gt;
 * &lt;p&gt;to compress the data before encoding it and then making the output have no newline characters. &lt;/p&gt;
 * &lt;p&gt;
 * Change Log:
 * &lt;/p&gt;
 * &lt;ul&gt;
 * &lt;li&gt;v2.2.2 - Fixed encodeFileToFile and decodeFileToFile to use the
 * Base64.InputStream class to encode and decode on the fly which uses
 * less memory than encoding/decoding an entire file into memory before writing.&lt;/li&gt;
 */
* <li>v2.2.1 - Fixed bug using URLSAFE and ORDERED encodings. Fixed bug when using very small files (~<lt; 40 bytes).</li>  
* <li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects: </li>  
* <ol>  
* <li>The default is RFC3548 format.</li>  
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548.</li>  
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html.</li>  
* </ol>  
* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a> for contributing the new Base64 dialects.</p>  
* </li>  
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.</li>  
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>  
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>  
* <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (e.g. int's that you "OR" together).</li>  
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode(String s, boolean gzipCompressed)</tt>. Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).</li>  
* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZip-compress objects before encoding them.</li>  
* <li>v1.4 - Added helper methods to read/write files.</li>  
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>  
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.</li>  
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>  
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>  
* </ul>  
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  jar/org/springframework/security/web/session/InvalidSessionAccessDeniedHandler.java
* /opt/cola/permits/1106218635_1605323289.5/0/spring-security-web-4-1-1-release-sources-
  jar/org/springframework/security/web/context/AbstractSecurityWebApplicationInitializer.java
* /opt/cola/permits/1106218635_1605323289.5/0/spring-security-web-4-1-1-release-sources-
  jar/org/springframework/security/web/csrft/CsrfException.java
* /opt/cola/permits/1106218635_1605323289.5/0/spring-security-web-4-1-1-release-sources-
  jar/org/springframework/security/web/method/annotation/CsrfTokenArgumentResolver.java
* /opt/cola/permits/1106218635_1605323289.5/0/spring-security-web-4-1-1-release-sources-
  jar/org/springframework/security/web/csrft/MissingCsrfTokenException.java
* /opt/cola/permits/1106218635_1605323289.5/0/spring-security-web-4-1-1-release-sources-
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* /opt/cola/permits/1106218635_1605323289.5/0/spring-security-web-4-1-1-release-sources-jar/org/springframework/security/web/util/matcher/RequestVariablesExtractor.java
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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2006-Jan-27

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Copyright FAQ
==============

1. I don't understand the resale restriction... What gives?

   Bitstream is giving away these fonts, but wishes to ensure its
   competitors can't just drop the fonts as is into a font sale system
   and sell them as is. It seems fair that if Bitstream can't make money
   from the Bitstream Vera fonts, their competitors should not be able to
   do so either. You can sell the fonts as part of any software package,
   however.

2. I want to package these fonts separately for distribution and
   sale as part of a larger software package or system. Can I do so?

   Yes. A RPM or Debian package is a "larger software package" to begin
   with, and you aren't selling them independently by themselves.
   See 1. above.

3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?
   Yes, but you must change the name(s) of the font(s).
5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.

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1.2141 springfoxswagger 2.8.0

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* /opt/cola/permits/1000144405_1646171454.96/0/springfox-swagger2-2-8-0-sources-
jar/springfox/documentation/swagger2/configuration/Swagger2DocumentationConfiguration.java
* /opt/cola/permits/1000144405_1646171454.96/0/springfox-swagger2-2-8-0-sources-
jar/springfox/documentation/swagger2/mappers/SecuritySchemeFactory.java
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1.2142 resteasy-atom-provider 3.6.1.Final

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1.2143 jackson-dataformat-smile 2.8.11
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1.2146 spring-boot-starter-tomcat

2.1.4.RELEASE

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* /opt/ws_local/PERMITS_SQL/1089321065_1600118586.34/0/spring-expression-5-1-4-release-sources-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
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* /opt/ws_local/PERMITS_SQL/1089321065_1600118586.34/0/spring-expression-5-1-4-release-sources-jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
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jar/org/springframework/expression/spel/standard/TokenKind.java
* /opt/ws_local/PERMITS_SQL/1089321065_1600118586.34/0/spring-expression-5-1-4-release-sources-
jar/org/springframework/expression/ConstructorResolver.java
* /opt/ws_local/PERMITS_SQL/1089321065_1600118586.34/0/spring-expression-5-1-4-release-sources-
jar/org/springframework/expression/MethodFilter.java
* /opt/ws_local/PERMITS_SQL/1089321065_1600118586.34/0/spring-expression-5-1-4-release-sources-
jar/org/springframework/expression/EvaluationException.java
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jar/org/springframework/expression/TypeLocator.java

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jar/org/springframework/expression/ExpressionParser.java

1.2148 maven-model 2.0.9
1.2148.1 Available under license :
/*
 * $Id$
 */
package org.apache.maven.model;

/**
 * Describes the licenses for this project. This is used
 * to generate
 * the license page of the project's web site, as well as
 * being taken into
 * consideration in other reporting and validation. The
 * licenses listed for
 * the project are that of the project itself, and not of
 * dependencies.
 * *
 * *
 * @version $Revision$ $Date$
 */
public class License implements java.io.Serializable {
/**
 * Get
 *  Addendum information pertaining to this license.
 */
public String getComments()
{
    return this.comments;
} //-- String getComments()

/**
 * Get
 *  
The primary method by which this project may be
distributed.
 *  
 *  <dl>
 *  <dt>repo</dt>
 *  <dd>may be downloaded from the Maven repository</dd>
 *  <dt>manual</dt>
 *  <dd>user must manually download and install the dependency.</dd>
 *  </dl>
 */
public String getDistribution()
{
    return this.distribution;
} //-- String getDistribution()

/**
 * Get
 *  
The full legal name of the license.
 */
public String getName()
{
    return this.name;
} //-- String getName()}
The official url for the license text.

```java
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Set
 * Addendum information pertaining to this license.
 *
 * @param comments
 */
public void setComments(String comments)
{
    this.comments = comments;
} //-- void setComments(String)

/**
 * Set
 *
 * The primary method by which this project may be distributed.
 * <dl>
 *   <dt>repo</dt>
 *   <dd>may be downloaded from the Maven repository</dd>
 *   <dt>manual</dt>
 *   <dd>user must manually download and install the dependency.</dd>
 * </dl>
 *
 * @param distribution
 */
public void setDistribution(String distribution)
{
    this.distribution = distribution;
} //-- void setDistribution(String)

/**
 * Set
 */
* The full legal name of the license.
* 
* * @param name
*/
public void setName(String name)
{
    this.name = name;
} //-- void setName(String)

/**
* Set
*
* The official url for the license text.
*
* * @param url
*/
public void setUrl(String url)
{
    this.url = url;
} //-- void setUrl(String)

private String modelEncoding = "UTF-8";

public void setModelEncoding( String modelEncoding )
{
    this.modelEncoding = modelEncoding;
}

public String getModelEncoding()
{
    return modelEncoding;
}
} */
* $Id$
* /

package org.apache.maven.model;

/**
* Description of a person who has contributed to the
* project, but
* who does not have commit privileges. Usually, these
public class Contributor implements java.io.Serializable {

    private String name;
    private String email;
    private String url;
    private String organization;
    private String organizationUrl;
    private java.util.List roles;
    private String timezone;

    }
* Field properties
*/
private java.util.Properties properties;

//-- 공용 함수 /---/
//-- Methods /---/

/**
* Method addProperty
* @param key
* @param value
*/
public void addProperty(String key, String value)
{
    getProperties().put(key, value);
} //-- void addProperty(String, String)

/**
* Method addRole
* @param string
*/
public void addRole(String string)
{
    getRoles().add(string);
} //-- void addRole(String)

/**
* Get
* The email address of the contributor.
* */
public String getEmail()
{
    return this.email;
} //-- String getEmail()

/**
* Get
* The full name of the contributor.
* */
/**
 * Get
 * The organization to which the contributor
 * belongs.
 *
 */
public String getOrganization()
{
    return this.organization;
} //-- String getOrganization()

/**
 * Get
 * The URL of the organization.
 *
 */
public String getOrganizationUrl()
{
    return this.organizationUrl;
} //-- String getOrganizationUrl()

/**
 * Method getProperties
 */
public java.util.Properties getProperties()
{
    if ( this.properties == null )
    {
        this.properties = new java.util.Properties();
    }

    return this.properties;
} //-- java.util.Properties getProperties()

/**
 * Method getRoles
 */
public java.util.List getRoles()
if ( this.roles == null )
{
    this.roles = new java.util.ArrayList();
}
return this.roles;
} //-- java.util.List getRoles()

/**
 * Get
 * The timezone the contributor is in. This is a
 * number in the range -11 to 12.
 * *
 */
public String getTimezone()
{
    return this.timezone;
} //-- String getTimezone()

/**
 * Get
 * The URL for the homepage of the contributor.
 * *
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Method removeRole
 * @param string
 */
public void removeRole(String string)
{
    getRoles().remove( string );
} //-- void removeRole(String)

/**
 * Set
 * The email address of the contributor.
/**
 * @param email
 */
public void setEmail(String email)
{
    this.email = email;
} //-- void setEmail(String)

/**
 * Set
 * The full name of the contributor.
 */
public void setName(String name)
{
    this.name = name;
} //-- void setName(String)

/**
 * Set
 * The organization to which the contributor belongs.
 */
public void setOrganization(String organization)
{
    this.organization = organization;
} //-- void setOrganization(String)

/**
 * Set
 * The URL of the organization.
 */
public void setOrganizationUrl(String organizationUrl)
{ /*...*/
public void setOrganizationUrl(String organizationUrl) {
    this.organizationUrl = organizationUrl;
} //-- void setOrganizationUrl(String)

/**
* Set
*
* Properties about the contributor, such as an
* instant messenger handle.
*
*
* @param properties
*/
public void setProperties(java.util.Properties properties) {
    this.properties = properties;
} //-- void setProperties(java.util.Properties)

/**
* Set
*
* The roles the contributor plays in the project.
* Each role is
* described by a <code>role</code> element, the
* body of which is a
* role name. This can also be used to describe the
* contribution.
*
* @param roles
*/
public void setRoles(java.util.List roles) {
    this.roles = roles;
} //-- void setRoles(java.util.List)

/**
* Set
*
* The timezone the contributor is in. This is a
* number in the range -11 to 12.
*
*
* @param timezone
public void setTimezone(String timezone) {
    this.timezone = timezone;
} //-- void setTimezone(String)

/**
 * Set
 *
 * @param url
 */
public void setUrl(String url) {
    this.url = url;
} //-- void setUrl(String)

private String modelEncoding = "UTF-8";

public void setModelEncoding( String modelEncoding ) {
    this.modelEncoding = modelEncoding;
}

public String getModelEncoding() {
    return modelEncoding;
}

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## Installation
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//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', ...]
ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true
ids.includes('GPL-3.0'); //=> false
```

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...]
deprecatedIds.includes('BSD-3-Clause'); //=> false
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
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validate-npm-package-license
============================

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
'license should be ’ +
'a valid SPDX license expression (without "LicenseRef"), ’ +
"UNLICENSED", or ’ +
"SEE LICENSE IN <filename>”,
'license is similar to the valid expression "Apache-2.0”
]
)
);
```javascript
SPDX expressions are valid, too ...
```
```
javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0-only OR BSD-2-Clause)'),
  validSPDXExpression
);
```javascript
... except if they contain `LicenseRef`:
```
```
javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ’ +
    'a valid SPDX license expression (without "LicenseRef"), ’ +
    "UNLICENSED", or ’ +
    "SEE LICENSE IN <filename>”,
  ]
};
assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);
```javascript
assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```javascript
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:
```javascript
assert.deepEqual(
valid('SEE LICENSE IN LICENSE.txt'),
{
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'LICENSE.txt'
}
);

assert.deepEqual(
valid('SEE LICENSE IN license.md'),
{
  validForNewPackages: true,
  validForOldPackages: true,
  inFile: 'license.md'
}
);

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
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To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.
Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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MA 02111-1307, USA

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You should also get your employer (if you work as a programmer) or your
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
1.2170 atk 2.3.93

1.2170.1 Available under license:

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Version 2, June 1991

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of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

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specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
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this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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Found in path(s):
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/package.c
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/xml-parser.h
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/sqlitecache.c
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/db.h
* /opt/cola/permits/1136595876_1654023073.881817/0/yum-metadata-parser-1.1.4-10.el7-1.src.rpm-cosi-expand-archive-jRbEhi8z/yum-metadata-parser-1.1.4.tar.gz-cosi-expand-archive-z7uqs49I/yum-metadata-parser-1.1.4/package.h
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Metadata-Version: 1.0
Name: yum-metadata-parser
Version: 1.1.4
Summary: A fast YUM meta-data parser
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1.2172 open-ldap 2.4.44 21.el7_6

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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SourceFileBSD_3_Clauses.javaRuntimeInvisibleAnnotations,LaQute/bnd/annotation=headers/BundleLicense;name+ http://opensource.org/licenses/BSD-3-Clauselink)http://en.wikipedia.org/wiki/BSD_licensesdescriptionRevised BSD License*aQute/bnd/annotation/licenses/BSD_3_Clausesjava/lang/Objectjava/lang/annotation/Annotation&ss Indiana University Extreme! Lab Software License

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Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
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package aQute.bnd.annotation.headers;

import java.lang.annotation.*;

/**
 * The Bundle-License header provides an optional machine readable form of
 * license information. The purpose of this header is to automate some of the
 * license processing required by many organizations like for example license
 * acceptance before a bundle is used. The header is structured to provide the
 * use of unique license naming to merge acceptance requests, as well as links
 * to human readable infor- mation about the included licenses. This header is
 * purely informational for management agents and must not be processed by the
 * OSGi Framework.
 * <p>
 * The syntax for this header is as follows:
 * <pre>
 * Bundle-License ::= &lt;&lt;EXTERNAL&gt;&gt; |
 * ( license ( , license ) * )
 * license ::= name ( ; license-attr ) *
 * license-attr ::= description | link
 * description ::= description = string
 * link ::= link = &lt;url&gt;
 * </pre>
 * <p>
 * This header has the following attributes:
 * <ul>
 * <li>name  Provides a globally unique name for this license, preferably world
 * wide, but it should at least be unique with respect to the other clauses. The
 * magic name &lt;&lt;EXTERNAL&gt;&gt; is used to indicate that this artifact does not
 * contain any license information but that licensing information is provided in
 * some other way. This is also the default contents of this header.
 * <li>Clients of this bundle can assume that licenses with the same name refer
 * to the same license. This can for example be used to minimize the click
 * through licenses. This name should be the canonical URL of the license, it
 * must not be localized by the translator. This URL does not have to exist but
 * must not be used for later versions of the license. It is recommended to use
 * URLs from &lt;a href="http://opensource.org/">Open Source Initiative&lt;/a&gt;. Other
 * licenses should use the following structure, but this is not mandated:
 * <pre>
 * http://&lt;domain-name&gt;/licenses/
 * &lt;license-name&gt;-&lt;version&gt.;&lt;extension&gt;
 * </pre>
 * <li>description  (optional) Provide the description of the license. This is
 * a short description that is usable in a list box on a UI to select more
 * information about the license.
* <li>link (optional) Provide a URL to a page that defines or explains the
* license. If this link is absent, the name field is used for this purpose. The
* URL is relative to the root of the bundle. That is, it is possible to refer
* to a file inside the bundle.
* </ul>
* If the Bundle-License statement is absent, then this does not mean that the
* bundle is not licensed. Licensing could be handled outside the bundle and the
* [@code <<EXTERNAL>>] form should be assumed. This header is informational and
* may not have any legal bearing. Consult a lawyer before using this header to
* automate licensing processing.
* </p>
* A number of licenses have been predefined, [@link ASL_2_0],
* [@link BSD_2_Clause], [@link BSD_3_Clause], [@link CDDL_1_0], [@link EPL_1_0], [@link GPL_2_0],
* [@link GPL_3_0], [@link LGPL_2_1], [@link MIT_1_0],
* [@link MPL_2_0].
*/
@Retention(RetentionPolicy.CLASS)
@Target({
ElementType.ANNOTATION_TYPE, ElementType.TYPE
})
public @interface BundleLicense {
/**
* The name of the license, should refer to <a
* href="http://opensource.org/">Open Source Initiative</a>
* */
String name();

/**
* A short description of the license
* */
String description() default "";

/**
* A URI to the license text. This maybe relative, in that case it is from
* the corresponding bundle.
* */
String link() default "";

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infrastructure, communications, and decision making process have stabilized
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version 1.0
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xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

HEAR YE, HEAR YE!

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and all subdirectories

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The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3's various parts is at:
http://www.w3.org/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html

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Signature$Ljava/util/List<Ljava/lang/String;>;timezone
propertiesLjava/util/Properties;
locationsLjava/util/Map;ILjava/util/Map<Ljava/lang/Object;Lorg/apache/maven/model/InputLocation;>;<init>()VC
odeLineNumberTableLocalVariableTablethis$Lorg/apache/maven/model/Contributor;addProperty'(Ljava/lang/Strin
g:Ljava/lang/String;)VkeyvalueaddRole(Ljava/lang/String;)Vstringclone&()Lorg/apache/maven/model/Contributor;
copyexLjava/lang/Exception:getEmail(Ljava/lang/String;)VgetLocation:(Ljava/lang/Object;)Vorg/apache/maven/model/InputLocation:Ljava/lang/Object:getNamegetOrganizationgetOrganizationUrl
getProperties(Ljava/util/Properties;)Vjava/util/List;&()Ljava/util/List<Ljava/lang/String;>;getTimezonegetUrl
removeRolesetEmailsetLocation:(Ljava/lang/Object;Lorg/apache/maven/model/InputLocation;)Vlocation&Lorg/apache/maven/model/InputLocation;setNamesetOrganizationsetOrganizationUrl
setProperties(Ljava/util/Properties;)VsetRoles(Ljava/util/List;)VLocalVariableTypeTable'(Ljava/util/List<Ljava/lang/String;>;);VsetTimezoneusetUrl(Ljava/lang/Object;)
Exceptions
SourceFileContributor.java?@Z][Mr"org/apache/maven/model/Contributor56java/util/ArrayList;java/util/Properties<=java/util/LinkedHashMap?java/lang/Exception'java/lang/UnsupportedOperationExceptionjava/lang/StringBuilderWS does not support
clone()S?Kjava/lang/RuntimeException10$org/apache/maven/model/InputLocationTracker5java/lang/Object
java/io/Serializablejava/lang/Cloneable+org/apache/maven/model/InputLocationTracker$java/lang/CloneNotSupportedExceptionput8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;java/util/Listadd(Ljava/lang/Object;)ZaddAll(Ljava/util/Collection;)Z(Ljava/util/Map;)VgetClass()Ljava/lang/Class;java/lang/Classappend- (Ljava/lang/String;);java/lang/StringBuilder;toString	initCause,(Ljava/lang/Throwable;)Ljava/lang/Throwable;java/util/Mapget&(Ljava/lang/Object;)Ljava/lang/Object;remove!+,-
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BCDEHVWSA/*/BCDEXSA/**BCDEYSA/#BCDEZ[AI**Y*+BCDEaKAD*+WB
CDEL0bKA**+B
CDE10cdAq#;++Y(*+.,)WB!*C #DE#HV#efgKA++!B
,CD 0hKA++*"B
6CDE30iKA++#B
@ACDE40jKA++*B
KLCDE::ImAP++B
YZCDE56n587opKA++%B
kICDE90qKA++&B
uvCDE20AMrA/**BCDEstuv
package aQute.bnd.annotation.licenses;
import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the Common Public
 * License 1.0. Applying this annotation will add a Bundle-License clause.
 */
@BundleLicense(name = "http://opensource.org/licenses/cpl1.0.php", link =
"http://www.ibm.com/developerworks/library/os-cpl.html", description = "aims of supporting and encouraging collaborative open-source development while still retaining the ability to use the CPL’d content with software licensed under other licenses, including many proprietary licenses.
")
public @interface CPL_1_0 {
}
package aQute.bnd.annotation.licenses;
import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the GNU General Public
 * License 3.0. Applying this annotation will add a Bundle-License clause.
 */
@BundleLicense(name = "http://opensource.org/licenses/GPL-3.0", link = "http://www.gnu.org/licenses/gpl-3.0.html", description = "The GNU General Public License version 3 (GPLv3)")
public @interface GPL_3_0 {
}

package aQute.bnd.annotation.licenses;
import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the Common Development and
 * Distribution license. Applying this annotation will add a Bundle-License clause.
 */
@BundleLicense(name = "http://opensource.org/licenses/CDDL-1.0", link = "http://en.wikipedia.org/wiki/Common_Development_and_Distribution_License", description = "Common Development and Distribution License 1.0")
public @interface CDDL_1_0 {
}

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*/
package aQute.bnd.annotation.licenses;

import aQute.bnd.annotation.headers.*/

/**
* An annotation to indicate that the type depends on the Revised BSD License.
* Applying this annotation will add a Bundle-License clause.
*/

@BundleLicense(name = "http://opensource.org/licenses/BSD-3-Clause", link = "http://en.wikipedia.org/wiki/BSD_licenses", description = "Revised BSD License")
public @interface BSD_3_Clause { }

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import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the Eclipse Public
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 */
@BundleLicense(name = "http://opensource.org/licenses/EPL-1.0", link = "http://www.eclipse.org/legal/epl-v10.html", description = "Eclipse Public License 1.0")

public @interface EPL_1_0 {}

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java/util/Mapget&(Ljava/lang/Object;)Ljava/lang/Object;put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;

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import aQute.bnd.annotation.headers.*;

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 * An annotation to indicate that the type depends on the MIT License. Applying
 * this annotation will add a Bundle-License clause.
 */
@BundleLicense(name = "http://opensource.org/licenses/MIT", link = "http://en.wikipedia.org/wiki/MIT_License",
description = "MIT License")
public @interface MIT_1_0 {}

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import aQute.bnd.annotation.headers.*;

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 */

@BundleLicense(name = "http://opensource.org/licenses/GPL-2.0", link = "http://www.gnu.org/licenses/gpl-2.0.html", description = "The GNU General Public License version 2 (GPLv2)")
public @interface GPL_2_0 {}
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@BundleLicense(name = "http://opensource.org/licenses/BSD-2-Clause", link = "http://en.wikipedia.org/wiki/BSD_licenses", description = "Simplified BSD or FreeBSD License")
public @interface BSD_2_Clause {}

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 */
@name()Ljava/lang/String;descriptionAnnotationDefaultlink
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import aQute.bnd.annotation.headers.*;

/**
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 **/

@BundleLicense(name = "http://opensource.org/licenses/LGPL-2.1", link = "http://www.gnu.org/licenses/lgpl-2.1.html", description = "GNU Lesser General Public License, version 2.1")
public @interface LGPL_2_1 {
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package aQute.bnd.annotation.licenses;

import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the Mozilla Public License
 * 2.0. Applying this annotation will add a Bundle-License clause.
 */
@BundleLicense(name = "http://opensource.org/licenses/MPL-2.0", link = "http://www.mozilla.org/MPL/2.0/",
description = "Mozilla Public License 2.0")
public @interface MPL_2_0 {}
HEAR YE, HEAR YE!

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $ 

1.2183 go-grpc-prometheus v1.1

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1.2184 artemis-hqclient-protocol

2.6.3.jbossorg-001

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1.2185 spring-boot 2.1.2.RELEASE

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* /opt/cola/permits/1110675120_1606844057.22/0/spring-boot-2-1-2-release-sources-1-jar/org/springframework/boot/convert/IsoOffsetFormatter.java
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* /opt/cola/permits/1110675120_1606844057.22/0/spring-boot-2-1-2-release-sources-1-jar/org/springframework/boot/web/embedded/netty/SslServerCustomizer.java
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* /opt/cola/permits/110675120_1606844057.22/0/spring-boot-2-1-2-release-sources-1.jar/org/springframework/boot/web/servlet/support/SpringBootServletInitializer.java
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/**
* A {link WebApplicationContext} that can be used to bootstrap itself from a contained
* {link ServletWebServerFactory} bean.
* 
* This context will create, initialize and run an {link WebServer} by searching for a
* single {link ServletWebServerFactory} bean within the {link ApplicationContext}
* itself. The {link ServletWebServerFactory} is free to use standard Spring concepts
* (such as dependency injection, lifecycle callbacks and property placeholder variables).
* 
* In addition, any {link Servlet} or {link Filter} beans defined in the context will be
* automatically registered with the web server. In the case of a single Servlet bean, the
* '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
* name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
* always be mapped to '/'. Filter beans will be mapped to all URLs (/*).
* 
* For more advanced configuration, the context can instead define beans that implement
* the {link ServletContextInitializer} interface (most often
* {link ServletRegistrationBean}s and/or {link FilterRegistrationBean}s). To prevent
* double registration, the use of {link ServletContextInitializer} beans will disable
* automatic Servlet and Filter bean registration.
* 
* Although this context can be used directly, most developers should consider using the
* {link AnnotationConfigServletWebServerApplicationContext} or
* {link XmlServletWebServerApplicationContext} variants.
* 
* @author Phillip Webb
* @author Dave Syer
* @see AnnotationConfigServletWebServerApplicationContext
* @see XmlServletWebServerApplicationContext
* @see ServletWebServerFactory
*/

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jar/org/springframework/boot/web/servlet/context/ServletWebServerApplicationContext.java
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* /opt/cola/permits/1110675120_1606844057.22/0/spring-boot-2-1-2-release-sources-1-jar/org/springframework/boot/context/properties/bind/CollectionBinder.java
* /opt/cola/permits/1110675120_1606844057.22/0/spring-boot-2-1-2-release-sources-1-jar/org/springframework/boot/web/embedded/tomcat/CompressionConnectorCustomizer.java
* /opt/cola/permits/1110675120_1606844057.22/0/spring-boot-2-1-2-release-sources-1-jar/org/springframework/boot/context/properties/bind/validation/ValidationBindHandler.java
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* /opt/cola/permits/1110675120_1606844057.22/0/spring-boot-2-1-2-release-sources-1.jar/org/springframework/boot/orm/jpa/hibernate/SpringPhysicalNamingStrategy.java
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* /opt/cola/permits/1110675950_1654022838.4526386/0/hibernate-search-orm-5-10-3-final-sources-1.jar/org/hibernate/search/hcore/impl/HibernateHelper.java

* /opt/cola/permits/1110675950_1654022838.4526386/0/hibernate-search-orm-5-10-3-final-sources-1.jar/org/hibernate/search/hcore/impl/HibernateSessionFactoryService.java

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jar/org/hibernate/search/hcore/impl/JMXHook.java

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

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  jar/src/java/com/ctc/wstx/sax/WstxSAXParserFactory.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-
  jar/src/java/com/ctc/wstx/sax/SAXProperty.java

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  jar/src/java/com/ctc/wstx/evt/WstxEventWriter.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/dtd/DFAValidator.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/compat/JdkImpl.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/stax/MinimalOutputFactory.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/dtd/ContentSpec.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/dtd/StructValidator.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/dtd/DFAState.java

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* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/sw/SimpleNsStreamWriter.java

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* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/io/WstxInputData.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/evt/DefaultEventAllocator.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/dtd/NameKeySet.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/dtd/NameKey.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/ent/EntityDecl.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/util/BaseNsContext.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/exc/WstxLazyException.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/io/WstxInputLocation.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/stax/WstxEventFactory.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/evt/BaseStartElement.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/evt/WEvent.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/exc/WstxException.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/io/EBCDICCodec.java

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/* Stax2 API extension for Streaming Api for Xml processing (StAX).
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* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/util/BijectiveNsMap.java

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* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/sw/BaseStreamWriter.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/io/WstxInputSource.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/dtd/DTDTypingNonValidator.java
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* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/dtd/DTDValidator.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/sw/InputElementStack.java
* /opt/cola/permits/1001448943_1646171629.98/0/wstx-asl-3-2-6-sources-jar/src/java/com/ctc/wstx/dtd/MinimalDTDReader.java
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 * ---------------
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 *
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 *
 * Changes
 * ------
 * 19-Aug-2002 : Version 1;
 * 17-Oct-2002 : Fixed errors reported by Checkstyle (DG);
 * ------------ JFREECHART 1.0.x -------------------------------
 * 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
 * */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* *
* Changes
* ------
* 29-Apr-2004 : Version 1 (DG);
* 08-Jul-2004 : Added equals() method (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 07-Jan-2005 : Renamed getRangeExtent() --> findRangeBounds (DG);
* 20-Apr-2005 : Renamed CategoryLabelGenerator
* --> CategoryItemLabelGenerator (DG);
* 22-Sep-2005 : Renamed getMaxBarWidth() --> getMaximumBarWidth() (DG);
* 20-Dec-2007 : Fix for bug 1848961 (DG);
* 24-Jun-2008 : Added new barPainter mechanism (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/renderer/category/GroupedStackedBarRenderer.java
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 *               Cleland Early;
 *
 * Changes:
 * --------
 * 05-Aug-2002 : Version 1, contributed by Richard Atkinson;
 * 29-Aug-2002 : Reversed seriesParameterName and itemParameterName in
constructor. Never should have been the other way round.
Also updated JavaDoc (RA);
* 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 05-Nov-2002 : Base dataset is now TableDataset not CategoryDataset (DG);
* 23-Mar-2003 : Implemented Serializable (DG);
* 13-Aug-2003 : Implemented Cloneable (DG);
* 23-Dec-2003 : Added fix for bug 861282 (DG);
* 21-May-2004 : Added URL encoding - see patch 947854 (DG);
* 13-Jan-2004 : Fixed for compliance with XHTML 1.0 (DG);
* -------------- JFREECHART 1.0.x -------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* 17-Apr-2007 : Use new URLUtilities class to encode URLs (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*/

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* 
* Changes
* -------
* 22-Apr-2003 : Version 1 (DG);
* 05-May-2004 : Now extends AbstractIntervalXYDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*               getYValue() (DG);
* 06-Oct-2004 : Updated for changes in DomainInfo interface (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 03-Oct-2006 : Deprecated get/setDomainIsPointsInTime() (DG);
*               value for domainIsPointsInTime to false (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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PlumNeedle.java

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Original Author: Bryan Scott (for the Australian Antarctic Division);
Contributor(s): David Gilbert (for Object Refinery Limited);

Changes:
--------
25-Sep-2002: Version 1, contributed by Bryan Scott (DG);
27-Mar-2003: Implemented Serializable (DG);
09-Sep-2003: Added equals() method (DG);
08-Jun-2005: Implemented Cloneable (DG);
22-Nov-2007: Implemented hashCode() (DG);

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*
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*
* Changes
* -------
* 31-Mar-2004 : Version 1 (AS);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*               getYValue() (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.xy (DG);
* 04-Nov-2004 : Added argument check for setIntervalWidth() method (DG);
* 17-Nov-2004 : New methods to reflect changes in DomainInfo (DG);
* 11-Jan-2005 : Removed deprecated methods in preparation for the 1.0.0
*               release (DG);
* 21-Feb-2005 : Made public and added equals() method (DG);
* 06-Oct-2005 : Implemented DatasetChangeListener to recalculate
*               autoIntervalWidth (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 06-Mar-2009 : Implemented hashCode() (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/xy/IntervalXYDelegate.java
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 --------------------
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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): -;

Changes
-------
25-Oct-2006 : Version 1 (DG);
23-Mar-2007 : Check item visibility before drawing error bars - see bug
1686178 (DG);
28-Jan-2009 : Added stroke options for error indicators (DG);

*/

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* Contributor(s): -;
*
* Changes
* -------
* 11-Oct-2001 : Version 1 (DG);
* 18-Dec-2001 : Changed order of parameters in constructor (DG);
* 19-Dec-2001 : Added a new constructor as suggested by Paul English (DG);
* 14-Feb-2002 : Fixed bug in Minute(Date) constructor, and changed the range
*               to start from zero instead of one (DG);
* 26-Feb-2002 : Changed getStart(), getMiddle() and getEnd() methods to
*               evaluate with reference to a particular time zone (DG);
* 13-Mar-2002 : Added parseMinute() method (DG);
* 19-Mar-2002 : Changed API, the minute is now defined in relation to an
*               Hour (DG);
* 10-Sep-2002 : Added getSerialIndex() method (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 10-Jan-2003 : Changed base class and method names (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package and implemented
*               Serializable (DG);
*               convenience (DG);
* 30-Sep-2004 : Replaced getTime().getTime() with getTimeInMillis() (DG);
* 04-Nov-2004 : Reverted change of 30-Sep-2004, because it won't work for
*               JDK 1.3 (DG);
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* Original Author:  David Gilbert (for Object Refinery Limited);
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* Changes
* -------
* 20-Jul-2006 : Version 1 (DG);
* 06-Oct-2006 : Added tooltip and URL text fields (DG);
* 18-May-2007 : Added seriesKey and dataset fields (DG);
* /

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/title/LegendItemBlockContainer.java

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* XYItemRenderer.java
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Mark Watson (www.markwatson.com);
Changes
-------

* 19-Oct-2001: Version 1, based on code by Mark Watson (DG);
* 22-Oct-2001: Renamed DataSource.java --> Dataset.java etc. (DG);
* 13-Dec-2001: Changed return type of drawItem from void --> Shape. The area
  returned can be used as the tooltip region.
* 23-Jan-2002: Added DrawInfo parameter to drawItem() method (DG);
* 28-Mar-2002: Added a property change listener mechanism. Now renderers do
  * not have to be immutable (DG);
* 04-Apr-2002: Added the initialise() method (DG);
* 09-Apr-2002: Removed the translated zero from the drawItem method, it can
  be calculated inside the initialise method if it is required.
* 13-Dec-2001: Changed return type of drawItem() to void (DG);
* 24-May-2002: Added ChartRenderingInfo the initialise method API (DG);
* 25-Jun-2002: Removed redundant import (DG);
* 20-Aug-2002: Added get/setURLGenerator methods to interface (DG);
* 02-Oct-2002: Fixed errors reported by Checkstyle (DG);
* 18-Nov-2002: Added methods for drawing grid lines (DG);
* 17-Jan-2003: Moved plot classes into a separate package (DG);
* 27-Jan-2003: Added shape lookup table (DG);
* 05-Jun-2003: Added domain and range grid bands (sponsored by Focus Computer
  Services Ltd) (DG);
* 27-Jul-2003: Added getRangeType() to support stacked XY area charts (RA);
* 16-Sep-2003: Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 25-Feb-2004: Replaced CrosshairInfo with CrosshairState. Renamed
  XYToolTipGenerator --> XYItemLabelGenerator (DG);
* 26-Feb-2004: Added lots of new methods (DG);
* 30-Apr-2004: Added getRangeExtent() method (DG);
* 06-May-2004: Added methods for controlling item label visibility (DG);
* 13-May-2004: Removed property change listener mechanism (DG);
* 18-May-2004: Added item label font and paint methods (DG);
* 10-Sep-2004: Removed redundant getRangeType() method (DG);
* 06-Oct-2004: Replaced getRangeExtent() with findRangeBounds() and added
  findDomainBounds (DG);
* 23-Nov-2004: Changed drawRangeGridLine() --> drawRangeLine() (DG);
* 07-Jan-2005: Removed deprecated method (DG);
* 24-Feb-2005: Now extends LegendItemSource (DG);
* 20-Apr-2005: Renamed XYLabelGenerator --> XYItemLabelGenerator (DG);
* --------- JFREECHART 1.0.x ---------------------------------------------
* 19-Apr-2007: Deprecated seriesVisible and seriesVisibleInLegend flags (DG);
* 20-Apr-2007: Deprecated paint, fillPaint, outlinePaint, stroke,
  outlineStroke, shape, itemLabelsVisible, itemLabelFont,
  itemLabelPaint, positiveItemLabelPosition,
negativeItemLabelPosition and createEntities override
fields (DG);

*/

Found in path(s):
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* Contributor(s):  -;
* 
* Changes
* ------
* 29-Apr-2003 : Version 1 (DG);
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/renderer/category/DefaultCategoryItemRenderer.java
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 *
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 * Contributor(s): David Gilbert (for Object Refinery Limited);
 *
 * Changes
 * ------
 * 29-Mar-2002 : First version (AB);
 * 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
 * 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
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 * ChartChangeEvent.java
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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
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 *
 * Changes (from 24-Aug-2001)
 * ___________________________
 * 24-Aug-2001 : Added standard source header. Fixed DOS encoding problem (DG);
 * 07-Nov-2001 : Updated header (DG);
 * 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
 * 18-Feb-2005 : Changed the type from int to ChartChangeEvent Type (DG);
 * ___________________________
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/event/ChartChangeEvent.java
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* Changes
* ------
* 07-Nov-2003 : Version 1 (DG);
* 13-May-2004 : Added equals() method (DG);

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/* Changes */
/* ------- */
/* 07-Nov-2003 : Version 1 (DG); */
/* 02-Aug-2007 : Added tick type attribute (DG); */
/* */

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* Changes
* ---------
* 06-Jan-2004 : Version 1 (DG);
* 17-Feb-2004 : Added equals() method (DG);
* 05-Nov-2004 : Adjusted settings for UP_90 and DOWN_90 (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* *
*/

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 *
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 * Contributor(s):  David Gilbert (for Object Refinery Limited);
 *                 Christian W. Zuckschwerdt;
 *                 Peter Kolb (patches 2497611, 2791407);
 *                 Martin Hoeller;
 *
 * Changes
 * -------
 * 21-Aug-2002 : Version 1, contributed by Pascal Collet (DG);
 * 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
 * 24-Oct-2002 : Changes to dataset interface (DG);
 * 05-Nov-2002 : Base dataset is now TableDataset not CategoryDataset (DG);
 * 05-Feb-2003 : Updates for new DefaultStatisticalCategoryDataset (DG);
 * 25-Mar-2003 : Implemented Serializable (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 06-Oct-2003 : Corrected typo in exception message (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 15-Jun-2005 : Added errorIndicatorPaint attribute (DG);

* --------- JFREECHART 1.0.x ---------------------------------------------
* 19-May-2006 : Added support for tooltips and URLs (DG);
* 12-Jul-2006 : Added support for item labels (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 28-Aug-2007 : Fixed NullPointerException - see bug 1779941 (DG);
* 14-Nov-2007 : Added errorIndicatorStroke, and fixed bugs with drawBarOutline
* and gradientPaintTransformer attributes being ignored (DG);
* 14-Jan-2009 : Added support for seriesVisible flags (PK);
* 16-May-2009 : Added findRangeBounds() override to take into account the
* dataset interval (PK);
* 28-Oct-2011 : Fixed problem with maximalBarWidth, bug #2810220 (MH);
* 30-Oct-2011 : Additional change for bug #2810220 (DG);
* /

Found in path(s):
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*
* Original Author:  Brian Cole;
* Contributor(s):  David Gilbert (for Object Refinery Limited);
*
* Changes
* -------
* ------
* 21-Apr-2004 : Version 1, contributed by Brian Cole (DG);
* 22-Apr-2004 : Fixed Checkstyle complaints (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 08-Mar-2005 : Added equals() method (DG);
* ---------------- JFREECHART 1.0.x ---------------------------------------------
* 30-Nov-2006 : Added checks for series visibility (DG);
* 22-Feb-2007 : Use new state object for reusable line, enable chart entities
*   (for tooltips, URLs), added new getLegendItem() override (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* IntervalXYItemLabelGenerator.java

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* Changes

* 26-May-2008 : Version 1 (DG);

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* Contributor(s): Peter Kolb (patch 2809117);
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* Changes:
* -------
* 21-May-2003 : Version 1 (DG);
* 10-Jun-2003 : Changed BoundsAnchor to TextAnchor (DG);
* 02-Jul-2003 : Added accessor methods and simplified constructor (DG);
* 19-Aug-2003 : Implemented Cloneable (DG);
* 13-Oct-2003 : Fixed bug where arrow paint is not set correctly (DG);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 29-Sep-2004 : Changes to draw() method signature (DG);
* ------------- JFREECHART 1.0.x -----------------------------
* 20-Feb-2006 : Correction for equals() method (fixes bug 1435160) (DG);
* 12-Jul-2006 : Fix drawing for PlotOrientation.HORIZONTAL, thanks to
*               Skunk (DG);
* 12-Feb-2009 : Added support for rotated label, plus background and
*               outline (DG);
* 18-May-2009 : Fixed typo in hashCode() method (DG);
* 24-Jun-2009 : Fire change events (see patch 2809117 by PK) (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* */

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XYTitleAnnotation.java

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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): Andrew Mickish;
Peter Kolb (patch 2809117);

Changes:
-------
02-Feb-2007 : Version 1 (DG);
30-Apr-2007 : Fixed equals() method (DG);
26-Feb-2008 : Fixed NullPointerException when drawing chart with a null
ChartRenderingInfo - see patch 1901599 by Andrew Mickish (DG);
03-Sep-2008 : Moved from experimental to main (DG);
24-Jun-2009 : Fire change events (see patch 2809117 by PK) (DG);

*/

Found in path(s):
/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/annotations/XYTitleAnnotation.java
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/****************************
BarChartFXDemo1.java
/****************************
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* -------------------------
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*
* Original Author: Andreas Schroeder;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* -------
* 01-Apr-2004 : Version 1 (AS);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*                getYValue() (DG);
* 15-Aug-2004 : Added drawBarOutline to control draw/don't-draw bar
*                outlines (BN);
* 10-Sep-2004 : drawBarOutline attribute is now inherited from XYBarRenderer
*                and double primitives are retrieved from the dataset rather
*                than Number objects (DG);
* 07-Jan-2005 : Updated for method name change in DatasetUtilities (DG);
* 25-Jan-2005 : Modified to handle negative values correctly (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 06-Dec-2006 : Added support for GradientPaint (DG);
* 15-Mar-2007 : Added renderAsPercentages option (DG);
* 24-Jun-2008 : Added new barPainter mechanism (DG);
* 23-Sep-2008 : Check shadow visibility before drawing shadow (DG);
* 28-May-2009 : Fixed bar positioning with inverted domain axis (DG);
* 07-Act-2011 : Fix for Bug #3035289: Patch #3035325 (MH);
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/renderer/xy/StackedXYBarRenderer.java

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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
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* Changes:
* --------
* 22-Oct-2004 : Version 1 (DG);
* 08-Feb-2005 : Updated for changes in RectangleConstraint (DG);
* 24-Feb-2005 : Improved arrangeRR() method (DG);
* 03-May-2005 : Implemented Serializable and added equals() method (DG);
* 13-May-2005 : Fixed bugs in the arrange() method (DG);
* 08-Apr-2008 : Fixed bug in arrangeFF() method where width is too small for
* left and right blocks (DG);
* 21-Nov-2013 : Fixed bug #1084 (DG);
* *
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/block/BorderArrangement.java
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 * 
 * Original Author:  Anthony Boulestreau;
 * Contributor(s):  David Gilbert (for Object Refinery Limited);
 * 
 * Changes
 * -------
 * 29-Mar-2002 : Version 1, contributed by Anthony Boulestreau (DG);
 * 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
 * 23-Mar-2003 : Implemented Serializable (DG);
 * 13-Aug-2003 : Implemented Cloneable (DG);
 * 17-Nov-2003 : Implemented PublicCloneable (DG);
 * 25-Feb-2004 : Renamed XYToolTipGenerator --> XYItemLabelGenerator (DG);
 * 19-Jan-2005 : Now accesses primitives only from dataset (DG);
 * 20-Apr-2005 : Renamed XYLabelGenerator --> XYItemLabelGenerator (DG);
 * 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
 * 31-Mar-2008 : Added hashCode() method to appease FindBugs (DG);
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 * Original Author:  David Gilbert (for Object Refinery Limited);
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 * Changes
 * -------
 * 05-Jul-2006 : Version 1 (DG);
 * 02-Feb-2007 : Added getPaintScale() method (DG);
 * 09-Mar-2007 : Fixed cloning (DG);
 * 03-Aug-2007 : Fix for bug 1766646 (DG);
* 07-Apr-2008 : Added entity collection code (DG);
* 22-Apr-2008 : Implemented PublicCloneable (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/renderer/xy/XYBlockRenderer.java
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* Changes:
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 * PieChartFXDemo1.java
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 *
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Peter Kolb (see patch 2809117);
*
* Changes:
* 02-Apr-2003 : Version 1 (DG);
* 19-Aug-2003 : Added equals method, implemented Cloneable, and applied
* serialization fixes (DG);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 14-Apr-2004 : Fixed draw() method to handle plot orientation correctly (DG);
* 29-Sep-2004 : Added support for tool tips and URLs, now extends
* AbstractXYAnnotation (DG);
* 04-Oct-2004 : Renamed ShapeUtils --> ShapeUtilities (DG);
* 08-Jun-2005 : Fixed equals() method to handle GradientPaint() (DG);
* 05-Nov-2008 : Added workaround for JRE bug 6574155, see JFreeChart bug
* 2221495 (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/
Found in path(s):
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* Changes
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* 06-Nov-2006 : Version 1 (DG);
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 * Changes
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 * 23-Jan-2003 : Version 1 (DG);
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* ChartProgressListener.java
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* *
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* *
* Changes (from 24-Aug-2001)
* --------------------------
* 14-Jan-2003 : Version 1 (DG);
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* Contributor(s): David Gilbert (for Object Refinery Limited);
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* Changes:
* -------
* 25-Sep-2002 : Version 1, contributed by Bryan Scott (DG);
* 27-Mar-2003 : Implemented Serializable (DG);
* 09-Sep-2003 : Added equals() method (DG);
* 08-Jun-2005 : Implemented Cloneable (DG);
* 22-Nov-2007 : Implemented hashCode() (DG);
* 
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*  
*  Original Author:  David Gilbert (for Object Refinery Limited);
*  Contributor(s):   -;
*  
*  Changes
*  -------
*  11-May-2004 : Version 1, distilled from StandardCategoryLabelGenerator (DG);
*  31-Jan-2005 : Added methods to return row and column labels (DG);
*  17-May-2005 : Added percentage to item array (DG);
*  ------------- JFREECHART 1.0.x ---------------------------------------------
*  03-May-2006 : Added new constructor (DG);
*  23-Nov-2007 : Implemented hashCode() (DG);
*  02-Jul-2013 : Use ParamChecks (DG);
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Found in path(s):
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* StandardContourToolTipGenerator.java
* ==============================================================
* (C) Copyright 2002-2008, by David M. O'Donnell and Contributors.
* 
* Original Author:  David M. O'Donnell;
* Contributor(s):  David Gilbert (for Object Refinery Limited);
* 
* Changes
* -------
* 23-Jan-2003 : Added standard header (DG);
* 21-Mar-2003 : Implemented Serializable (DG);
* 15-Jul-2004 : Switched the getZ() and getZValue() methods (DG);
* 19-Jan-2005 : Now accesses primitives only from dataset (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/StandardContourToolTipGenerator.java
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* DefaultBoxAndWhiskerCategoryDataset.java
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* 
* Original Author:  David Browning (for Australian Institute of Marine
* Science);
* Contributor(s):  David Gilbert (for Object Refinery Limited);
* 
* Changes
* -------
* 05-Aug-2003 : Version 1, contributed by David Browning (DG);
* 27-Aug-2003 : Moved from org.jfree.data --> org.jfree.data.statistics (DG);
* 12-Nov-2003 : Changed 'data' from private to protected and added a new 'add'
* method as proposed by Tim Bardzil. Also removed old code (DG);
* 01-Mar-2004 : Added equals() method (DG);
* 18-Nov-2004 : Updates for changes in RangeInfo interface (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
* release (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------

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* 02-Feb-2007: Removed author tags from all over JFreeChart sources (DG);
* 17-Apr-2007: Fixed bug 1701822 (DG);
* 13-Jun-2007: Fixed error in previous patch (DG);
* 28-Sep-2007: Fixed cloning bug (DG);
* 02-Oct-2007: Fixed bug in updating cached bounds (DG);
* 03-Oct-2007: Fixed another bug in updating cached bounds, added removal
  methods (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/statistics/DefaultBoxAndWhiskerCategoryDataset.java
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 * Original Author: David Gilbert (for Object Refinery Limited);
 * Contributor(s):  -;
Changes
-------
05-Nov-2002 : Version 1 (DG);
25-Mar-2003 : Implemented Serializable (DG);
01-May-2003 : Modified drawItem() method signature (DG);
20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
25-Feb-2004 : Replaced CrosshairInfo with CrosshairState (DG);
27-Sep-2004 : Access double values from dataset (DG);
11-Nov-2004 : Now uses ShapeUtilities to translate shapes (DG);
11-Apr-2008 : New override for findRangeBounds() (DG);
26-May-2008 : Added item label support (DG);
27-Mar-2009 : Updated findRangeBounds() (DG);
/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/renderer/xy/YIntervalRenderer.java

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*
PeriodAxis.java

---

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Contributor(s): -;

Changes
-------
01-Jun-2004 : Version 1 (DG);
16-Sep-2004 : Fixed bug in equals() method, added clone() method and
               PublicCloneable interface (DG);
25-Nov-2004 : Updates to support major and minor tick marks (DG);
25-Feb-2005 : Fixed some tick mark bugs (DG);
15-Apr-2005 : Fixed some more tick mark bugs (DG);
26-Apr-2005 : Removed LOGGER (DG);
16-Jun-2005 : Fixed zooming (DG);
15-Sep-2005 : Changed configure() method to check autoRange flag,
               and added ticks to state (DG);
--------- JFREECHART 1.0.x ---------------------------------------------
06-Oct-2006 : Updated for deprecations in RegularTimePeriod and
              subclasses (DG);
22-Mar-2007 : Use new defaultAutoRange attribute (DG);
31-Jul-2007 : Fix for inverted axis labelling (see bug 1763413) (DG);
08-Apr-2008 : Notify listeners in setRange(Range, boolean, boolean) - fixes
               bug 1932146 (DG);
16-Jan-2009 : Fixed bug 2490803, a problem in the setRange() method (DG);
02-Mar-2009 : Added locale - see patch 2569670 by Benjamin Bignell (DG);
02-Mar-2009 : Fixed draw() method to check tickMarksVisible and
               tickLabelsVisible (DG);
19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
02-Jul-2013 : Use ParamChecks (DG);
25-Jul-2013 : Fix for axis timezone and label formatting, bug 1107 (DG);
01-Aug-2013 : Added attributedLabel override to support superscripts,
               subscripts and more (DG);

*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author: David Gilbert (for Object Refinery Limited);
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* 
* Changes
* -------
* 13-Dec-2005 : Version 1, based on StandardXYZToolTipGenerator (DG);
* 26-Jan-2006 : Renamed StandardXYZItemLabelGenerator
* --> BubbleXYItemLabelGenerator (DG);
* 23-Nov-2007 : Implemented hashCode() (DG);
* 23-Apr-2008 : Implemented PublicCloneable (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* 
*/

Found in path(s):
*/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/BubbleXYItemLabelGenerator.java
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* *
* Original Author: Matthew Wright; *
* Contributor(s): David Gilbert (for Object Refinery Limited); *
* *
* Changes (from 08-Nov-2001) *
* --------------------------*
* 08-Nov-2001 : Added standard header and tidied Javadoc comments (DG); *
*                 Moved from JFreeChart to package com.jrefinery.data.* in *
*                 JCommon class library (DG); *
* 24-Jun-2002 : Removed unnecessary local variable (DG); *
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG); *
* 26-May-2004 : Moved calculateMean() method from BoxAndWhiskerCalculator (DG); *
* 02-Jun-2004 : Fixed bug in calculateMedian() method (DG); *
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0 *
*                 release (DG); *
* 02-Jul-2013 : Use ParamChecks (DG); *
* */

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------------------ ChartMouseEvent.java

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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): Alex Weber;

Changes
-------
27-May-2002: Version 1, incorporating code and ideas by Alex Weber (DG);
13-Jun-2002: Added Javadoc comments (DG);
26-Sep-2002: Fixed errors reported by Checkstyle (DG);
05-Nov-2002: Added a reference to the source chart (DG);
13-Jul-2004: Now extends EventObject and implements Serializable (DG);
---------- JFREECHART 1.0.x -----------------------------
24-May-2007: Updated API docs (DG);
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/*

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.96561260/jfreechart-1-0-19-sources-
* jar/org/jfree/chart/ChartMouseEvent.java
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* Changes (from 24-Aug-2001)
* ==============================================================
* 24-Aug-2001 : Added standard source header. Fixed DOS encoding problem (DG);
* 15-Oct-2001 : Move to new package (com.jrefinery.data.*) (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* 11-Jun-2002 : Separated the event source from the dataset to cover the case
* where the dataset is changed to null in the Plot class.
* Updated Javadocs (DG);
* 04-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 05-Oct-2004 : Minor Javadoc updates (DG);
* */

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* *
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* Contributor(s): David Gilbert (for Object Refinery Limited);
* *
* Changes
* -------
* 06-Dec-2001 : Version I (BK);
* 27-Dec-2001 : Fixed bug in getChildPosition method (BK);
* 29-Dec-2001 : Fixed bug in getChildPosition method with complex CombinePlot (BK);
* 05-Feb-2002 : Small addition to the interface HighLowDataset, as requested by Sylvain Vieujot (DG);
* 14-Feb-2002 : Added bug fix for IntervalXYDataset methods, submitted by Gyula Kun-Szabo (DG);
* 11-Jun-2002 : Updated for change in event constructor (DG);
* 04-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 06-May-2004 : Now extends AbstractIntervalXYDataset and added other methods that return double primitives (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with getYValue() (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* 04-Feb-2009 : Deprecated the class (DG);
* */

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* Changes:
* 
* 29-Aug-2002 : Initial version (RA);
* 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 23-Mar-2003 : Implemented Serializable (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*               getYValue() (DG);
* 13-Jan-2005 : Modified for XHTML 1.0 compliance (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 06-Jul-2006 : Swap call to dataset's getX() --> getXValue() (DG);
* 17-Apr-2007 : Added null argument checks to constructor, new accessor
*               methods, added equals() override and used new URLUtilities
*               class to encode series key and date (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* 
*/

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* Changes
* ------
* 26-Mar-2002 : Version 1, translation by Hans-Jurgen Greiner (DG);
* 17-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* */

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* Contributor(s): -;
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* Changes:
* -------
* 19-Apr-2005 : Version 1 (DG);
* */
*
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DynamicDriveToolTipTagFragmentGenerator.java

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* Contributors: David Gilbert (for Object Refinery Limited);
  Fawad Halim - bug 2690293;

* Changes
* -------
* 12-Aug-2003 : Version 1 (RA);
* 04-Dec-2007 : Escape tool tip text to fix bug 1400917 (DG);
* 19-Mar-2009 : Escape apostrophes - see bug 2690293 with fix by FH (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* 
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):   -;
* 
* Changes
* ------
* 27-Jun-2014 : Version 1 (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/ChartHints.java
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* CategoryItemRendererState.java
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* (C) Copyright 2003-2009, by Object Refinery Limited.
*  
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Peter Kolb (patch 2497611);
*  
* Changes (since 20-Oct-2003):
*  
* 20-Oct-2003 : Added series running total (DG);
*  
* JFREECHART 1.0.x ---------------------------------------------
* 01-Dec-2006 : Updated API docs (DG);
* 26-Jun-2008 : Added CrosshairState (DG);
* 14-Jan-2009 : Added visibleSeries[] array (PK);
* 04-Feb-2009 : Added getVisibleSeriesArray() method (DG);
*  
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/renderer/category/CategoryItemRendererState.java

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* StatisticalLineAndShapeRenderer.java
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* Original Author: Mofeed Shahin;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Peter Kolb (patch 2497611);
* 
* Changes
* ------
* 01-Feb-2005 : Version 1, contributed by Mofeed Shahin (DG);
* 16-Jun-2005 : Added errorIndicatorPaint to be consistent with
*               StatisticalBarRenderer (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 11-Apr-2006 : Fixed bug 1468794, error bars drawn incorrectly when rendering
*               plots with horizontal orientation (DG);
* 25-Sep-2006 : Fixed bug 1562759, constructor ignoring arguments (DG);
* 01-Jun-2007 : Return early from drawItem() method if item is not
*               visible (DG);
* 14-Jun-2007 : If the dataset is not a StatisticalCategoryDataset, revert
*               to the drawing behaviour of LineAndShapeRenderer (DG);
* 27-Sep-2007 : Added offset option to match new option in
*               LineAndShapeRenderer (DG);
* 14-Jan-2009 : Added support for seriesVisible flags (PK);
* 23-Jan-2009 : Observe useFillPaint and drawOutlines flags (PK);
* 23-Jan-2009 : In drawItem, divide code into passes (DG);
* 05-Feb-2009 : Added errorIndicatorStroke field (DG);
* 01-Apr-2009 : Added override for findRangeBounds(), and fixed NPE in
*               creating item entities (DG);
*/

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  jar/org/jfree/chart/renderer/category/StatisticalLineAndShapeRenderer.java
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DefaultKeyedValues2D.java

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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): Andreas Schroeder;

Changes
-------
28-Oct-2002 : Version 1 (DG);
21-Jan-2003 : Updated Javadocs (DG);
13-Mar-2003 : Implemented Serializable (DG);
18-Aug-2003 : Implemented Cloneable (DG);
31-Mar-2004 : Made the rows optionally sortable by a flag (AS);
01-Apr-2004 : Implemented remove method (AS);
05-Apr-2004 : Added clear() method (DG);
15-Sep-2004 : Fixed clone() method (DG);
12-Jan-2005 : Fixed bug in getValue() method (DG);
23-Mar-2005 : Implemented PublicCloneable (DG);
09-Jun-2005 : Modified getValue() method to throw exception for unknown
keys (DG);
------------------------ JFREECHART 1.0.x -----------------------------
18-Jan-2007 : Fixed bug in getValue() method (DG);
30-Mar-2007 : Fixed bug 1690654, problem with removeValue() (DG);
21-Nov-2007 : Fixed bug (1835955) in removeColumn(Comparable) method (DG);
23-Nov-2007 : Added argument checks to removeRow(Comparable) to make it
consistent with the removeRow(Comparable) method (DG);
03-Jul-2013 : Use ParamChecks (DG);
/* Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/DefaultKeyedValues2D.java
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 * Contributor(s): Richard Atkinson;
 * Christian W. Zuckschwerdt;
 * Changes
 * -------
 * 13-Dec-2001 : Version 1 (DG);
 * 23-Jan-2002 : Added DrawInfo parameter to drawItem() method (DG);
 * 28-Mar-2002 : Added a property change listener mechanism so that renderers
* no longer need to be immutable (DG);
* 09-Apr-2002: Removed translatedRangeZero from the drawItem() method, and
  changed the return type of the drawItem method to void,
  reflecting a change in the XYItemRenderer interface. Added
tooltip code to drawItem() method (DG);
* 05-Aug-2002: Small modification to drawItem method to support URLs for
  HTML image maps (RA);
* 25-Mar-2003: Implemented Serializable (DG);
* 01-May-2003: Modified drawItem() method signature (DG);
* 30-Jul-2003: Modified entity constructor (CZ);
* 31-Jul-2003: Deprecated constructor (DG);
* 20-Aug-2003: Implemented Cloneable and PublicCloneable (DG);
* 16-Sep-2003: Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 29-Jan-2004: Fixed bug (882392) when rendering with
  PlotOrientation.HORIZONTAL (DG);
* 25-Feb-2004: Replaced CrosshairInfo with CrosshairState. Renamed
  XYToolTipGenerator --> XYItemLabelGenerator (DG);
* 15-Jul-2004: Switched getX() with getXValue() and getY() with
  getYValue() (DG);
* 01-Nov-2005: Added optional openTickPaint and closeTickPaint settings (DG);
* ----------------- JFREECHART 1.0.0 -----------------------------------------------
* 06-Jul-2006: Replace dataset methods getX() --> getXValue() (DG);
* 08-Apr-2008: Added findRangeBounds() override (DG);
* 29-Apr-2008: Added tickLength field (DG);
* 25-Sep-2008: Check for non-null entity collection (DG);
*
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author: Michael Duffy / Eric Thomas;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*                David M. O'Donnell;
*                Scott Sams;
*                Sergei Ivanov;
*
* Changes
* -------
* 14-Mar-2002 : Version 1 contributed by Michael Duffy (DG);
* 19-Apr-2002 : drawVerticalString() is now drawRotatedString() in
*                RefineryUtilities (DG);
* 23-Apr-2002 : Added a range property (DG);
* 15-May-2002 : Modified to be able to deal with negative and zero values (via
*                new 'adjustedLog10()' method); occurrences of "Math.log(10)"
*                changed to "LOG10_VALUE"; changed 'intValue()' to
*                'longValue()' in 'refreshTicks()' to fix label-text value
*                out-of-range problem; removed 'draw()' method; added
*                'autoRangeMinimumSize' check; added 'log10TickLabelsFlag'
*                parameter flag and implementation (ET);
* 25-Jun-2002 : Removed redundant import (DG);
* 25-Jul-2002 : Changed order of parameters in ValueAxis constructor (DG);
* 16-Jul-2002 : Implemented support for plotting positive values arbitrarily
*                close to zero (added 'allowNegativesFlag' flag) (ET).
* 05-Sep-2002 : Updated constructor reflecting changes in the Axis class (DG);
* 02-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 08-Nov-2002 : Moved to new package com.jrefinery.chart.axis (DG);
* 22-Nov-2002 : Bug fixes from David M. O'Donnell (DG);
* 14-Jan-2003 : Changed autoRangeMinimumSize from Number --> double (DG);
* 20-Jan-2003 : Removed unnecessary constructors (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 08-May-2003 : Fixed plotting of datasets with lower==upper bounds when
*                'minAutoRange' is very small; added 'strictValuesFlag'
and default functionality of throwing a runtime exception
if 'allowNegativesFlag' is false and any values are less
than or equal to zero; added 'expTickLabelsFlag' and
changed to use "1e#"-style tick labels by default
("10^n"-style tick labels still supported via 'set'
method); improved generation of tick labels when range of
values is small; changed to use 'NumberFormat.getInstance()'
to create 'numberFormatterObj' (ET);
* 14-May-2003 : Merged HorizontalLogarithmicAxis and
  VerticalLogarithmicAxis (DG);
* 29-Oct-2003 : Added workaround for font alignment in PDF output (DG);
* 07-Nov-2003 : Modified to use new NumberTick class (DG);
* 08-Apr-2004 : Use numberFormatOverride if set - see patch 930139 (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
* 21-Apr-2005 : Added support for upper and lower margins; added
  get/setAutoRangeNextLogFlag() methods and changed
default to 'autoRangeNextLogFlag'==false (ET);
* 22-Apr-2005 : Removed refreshTicks() and fixed names and parameters for
  refreshHorizontalTicks() & refreshVerticalTicks();
* changed javadoc on setExpTickLabelsFlag() to specify
  proper default (ET);
* 22-Apr-2005 : Renamed refreshHorizontalTicks --> refreshTicksHorizontal
  (and likewise the vertical version) for consistency with
  other axis classes (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 02-Mar-2007 : Applied patch 1671069 to fix zooming (DG);
* 22-Mar-2007 : Use new defaultAutoRange attribute (DG);
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* Changes:
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* 09-Apr-2009 : Version 1 (DG);
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* Original Author: David Gilbert (for Object Refinery Limited);
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* Changes:
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* 25-Jun-2014 : Version 1 (DG);
*
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* Contributor(s):  David Gilbert (for Object Refinery Limited);
*                Jonathan Nash;
*                Richard Atkinson;
*                Tin Luu;
*
* Changes
* -------
* 31-Oct-2001 : Version 1 contributed by Serge V. Grachov (DG);
* 23-Nov-2001 : Overhauled auto tick unit code for all axes (DG);
* 12-Dec-2001 : Minor change due to grid lines bug fix (DG);
* 08-Jan-2002 : Added flag allowing the axis to be 'inverted'. That is, run
*               from positive to negative. Added default values to
*               constructors (DG);
* 16-Jan-2002 : Added an optional crosshair, based on the implementation by
*                Jonathan Nash (DG);
* 25-Feb-2002 : Updated constructors for new autoRangeStickyZero flag (DG);
* 19-Apr-2002 : drawVerticalString() is now drawRotatedString() in
*                RefineryUtilities (DG);
* 25-Jun-2002 : Removed redundant import (DG);
* 25-Jul-2002 : Changed order of parameters in ValueAxis constructor (DG);
* 06-Aug-2002 : Modified draw method to not draw axis label if label is empty
*                String (RA);
* 05-Sep-2002 : Updated constructor for changes in the Axis class, and changed
*                draw method to observe tickMarkPaint (DG);
* 22-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 08-Nov-2002 : Moved to new package com.jrefinery.chart.axis (DG);
* 20-Jan-2003 : Removed unnecessary constructors (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 13-May-2003 : Merged HorizontalNumberAxis3D and VerticalNumberAxis3D (DG);
* 21-Aug-2003 : Updated draw() method signature (DG);
* 07-Nov-2003 : Modified refreshTicks method signature (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------
* 18-Jan-2006 : Fixed bug 1408904 (axis assumes CategoryPlot) (DG);
* 16-Apr-2009 : Changed axis line visibility default (DG);
* 01-Aug-2013 : Added attributedLabel override to support superscripts,
  * subscripts and more (DG); *
*/

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 * Changes
 * -------
 * 03-Nov-2006 : Version 1 (DG);
 * 17-Nov-2006 : Added flags for tick label visibility (DG);
 * 24-Oct-2007 : Added tick label formatter (DG);
* 19-Nov-2007 : Added some missing accessor methods (DG);
* 27-Feb-2009 : Fixed bug 2617557: tickLabelPaint ignored (DG);
* 09-Feb-2010 : Fixed bug 2946521 (DG);
* 08-Jan-2012 : Added missing angleToValue() implementation (DG);
* 03-Jul-2013 : Use ParamChecks (DG);

* /

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 * Changes
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* 22-Mar-2005 : Version 1 (DG);
* 29-Mar-2005 : Fixed serialization (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

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 * Changes:
 * --------

* 05-Feb-2002 : Version 1 (DG);
* 05-Feb-2005 : Added equals() method and implemented Serializable (DG);
* 02-Oct-2007 : Added getMeanValue() and getStandardDeviationValue() methods
   for convenience, and toString() method for debugging (DG);
* *
*/

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  jar/org/jfree/data/statistics/MeanAndStandardDeviation.java
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 * -------------------
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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  -;
 *
 * Changes
 * -------
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Arnaud Lelievre;
*
* Changes:
* 24-Nov-2005 : Version 1, based on NumberAxisPropertyEditor (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
*       Jess Thrysoee (DG);
* 27-Feb-2009 : Fixed bug 2612649, NullPointerException (DG);
* 03-Nov-2011 : Refactoring to use new DefaultValueAxisEditor (MH);
* /

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
* jar/org/jfree/chart/editor/DefaultNumberAxisEditor.java
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 * ----------------
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* Original Author: David Gilbert;
* Contributor(s): Pady Srinivasan (patch 1217634);
  Peter Kolb (patches 2497611 and 2603321);
*
* Changes
* -------
* 21-Aug-2001: Added standard header. Fixed DOS encoding problem (DG);
* 18-Sep-2001: Updated header (DG);
* 04-Dec-2001: Changed constructors to protected, and tidied up default values (DG);
* 19-Apr-2002: Updated import statements (DG);
* 05-Sep-2002: Updated constructor for changes in Axis class (DG);
* 06-Nov-2002: Moved margins from the CategoryPlot class (DG);
* 08-Nov-2002: Moved to new package com.jrefinery.chart.axis (DG);
* 22-Jan-2002: Removed monolithic constructor (DG);
* 26-Mar-2003: Implemented Serializable (DG);
* 09-May-2003: Merged HorizontalCategoryAxis and VerticalCategoryAxis into this class (DG);
* 13-Aug-2003: Implemented Cloneable (DG);
* 29-Oct-2003: Added workaround for font alignment in PDF output (DG);
* 05-Nov-2003: Fixed serialization bug (DG);
* 26-Nov-2003: Added category label offset (DG);
* 06-Jan-2004: Moved axis line attributes to Axis class, rationalised category label position attributes (DG);
* 07-Jan-2004: Added new implementation for linewrapping of category labels (DG);
* 17-Feb-2004: Moved deprecated code to bottom of source file (DG);
* 10-Mar-2004: Changed Dimension -> Dimension2D in text classes (DG);
* 16-Mar-2004: Added support for tooltips on category labels (DG);
* 01-Apr-2004: Changed java.awt.geom.Dimension2D to org.jfree.ui.Size2D because of JDK bug 4976448 which persists on JDK 1.3.1 (DG);
* 03-Sep-2004: Added 'maxCategoryLabelLines' attribute (DG);
* 04-Oct-2004: Renamed ShapeUtils --> ShapeUtilities (DG);
* 11-Jan-2005: Removed deprecated methods in preparation for 1.0.0 release (DG);
* 21-Jan-2005: Modified return type for RectangleAnchor.coordinates() method (DG);
* 21-Apr-2005: Replaced Insets with RectangleInsets (DG);
* 26-Apr-2005: Removed LOGGER (DG);
* 08-Jun-2005: Fixed bug in axis layout (DG);
* 22-Nov-2005: Added a method to access the tool tip text for a category label (DG);
* 23-Nov-2005: Added per-category font and paint options - see patch 1217634 (DG);
* 11-Jan-2006: Fixed null pointer exception in drawCategoryLabels - see bug 1403043 (DG);
* 18-Aug-2006 : Fix for bug drawing category labels, thanks to Adriaan Joubert (1277726) (DG);
* 02-Oct-2006 : Updated category label entity (DG);
* 30-Oct-2006 : Updated refreshTicks() method to account for possibility of multiple domain axes (DG);
* 07-Mar-2007 : Fixed bug in axis label positioning (DG);
* 27-Sep-2007 : Added getCategorySeriesMiddle() method (DG);
* 21-Nov-2007 : Fixed performance bug noted by FindBugs in the equalPaintMaps() method (DG);
* 23-Apr-2008 : Fixed bug 1942059, bad use of insets in calculateTextBlockWidth() (DG);
* 26-Jun-2008 : Added new getCategoryMiddle() method (DG);
* 27-Oct-2008 : Set font on Graphics2D when creating category labels (DG);
* 14-Jan-2009 : Added new variant of getCategorySeriesMiddle() to make it simpler for renderers with hidden series (PK);
* 19-Mar-2009 : Added entity support - see patch 2603321 by Peter Kolb (DG);
* 16-Apr-2009 : Added tick mark drawing (DG);
* 29-Jun-2009 : Fixed bug where axis entity is hiding label entities (DG);
* 25-Jul-2013 : Added support for URLs on category labels (DG);
* 01-Aug-2013 : Added attributedLabel override to support superscripts, subscripts and more (DG);
* 29-Jul-2014 : Add hint to normalise stroke for tick marks (DG);
*
*/

Found in path(s):
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* Polish translation: Krzysztof Pa? (kpaz@samorzad.pw.edu.pl)
* *
* Changes
* ------
* 21-Mar-2002 : Version 1 (DG);
* 17-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* *
* /

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* *
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* *
* Changes
* -----
* 08-Mar-2004 : Version 1 (DG);
* 18-Apr-2005 : Use StringBuffer (DG);
* 14-Jun-2007 : Now extends AbstractPieLabelDistributor (DG);
* 31-Mar-2008 : Fix bugs in label distribution (DG);
* *
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* 
* Changes:
* -------
* 30-Jul-2003 : Version 1 (DG);
* 01-Mar-2004 : Added readResolve() method (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes (from 18-Sep-2001)
* --------------------------
* 18-Sep-2001 : Added standard header and fixed DOS encoding problem (DG);
* 15-Nov-2001 : Moved to package com.jrefinery.data.* (DG);
*      Updated Javadoc comments (DG);
* 22-Apr-2002 : Added getValueRange() method (DG);
* 12-Jul-2002 : Renamed getValueRange() --> getDomainRange() (DG);
* 06-Oct-2004 : Renamed getDomainRange() --> getDomainBounds() (DG);
* 17-Nov-2004 : Added 'includeInterval' argument to all methods (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
*      release (DG);
* 02-Aug-2013 : Updated Javadocs from David Tonhofer (bug 1117) (DG);
*
*
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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  Christian W. Zuckschwerdt;
*                  Peter Kolb (patches 2497611, 2791407);
*
* Changes
* -------
* 14-Mar-2002 : Version 1 (DG);
* 23-May-2002 : Added tooltip generator to renderer (DG);
* 29-May-2002 : Moved tooltip generator to abstract super-class (DG);
* 25-Jun-2002 : Changed constructor to protected and removed redundant
*               code (DG);
* 26-Jun-2002 : Added axis to initialise method, and record upper and lower
*               clip values (DG);
* 24-Sep-2002 : Added getLegendItem() method (DG);
* 09-Oct-2002 : Modified constructor to include URL generator (DG);
* 05-Nov-2002 : Base dataset is now TableDataset not CategoryDataset (DG);
* 10-Jan-2003 : Moved get/setItemMargin() method up from subclasses (DG);
* 17-Jan-2003 : Moved plot classes into a separate package (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 01-May-2003 : Modified clipping to allow for dual axes and datasets (DG);
* 12-May-2003 : Merged horizontal and vertical bar renderers (DG);
* 12-Jun-2003 : Updates for item labels (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 02-Sep-2003 : Changed initialise method to fix bug 790407 (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 07-Oct-2003 : Added renderer state (DG);
* 27-Oct-2003 : Merged drawHorizontalItem() and drawVerticalItem()
*                methods (DG);
* 28-Oct-2003 : Added support for gradient paint on bars (DG);
* 14-Nov-2003 : Added 'maxBarWidth' attribute (DG);
* 10-Feb-2004 : Small changes inside drawItem() method to ease cut-and-paste
*                overriding (DG);
* 19-Mar-2004 : Fixed bug introduced with separation of tool tip and item
*                label generators. Fixed equals() method (DG);
* 11-May-2004 : Fix for null pointer exception (bug id 951127) (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 26-Jan-2005 : Provided override for getLegendItem() method (DG);
* 20-Apr-2005 : Generate legend labels, tooltips and URLs (DG);
* 18-May-2005 : Added configurable base value (DG);
* 09-Jun-2005 : Use addItemEntity() method from superclass (DG);
* 01-Dec-2005 : Update legend item to use/not use outline (DG);
* ------------: JFreeChart 1.0.x ---------------------------------------------
* 06-Dec-2005 : Fixed bug 1374222 (JDK 1.4 specific code) (DG);
* 11-Jan-2006 : Fixed bug 1401856 (bad rendering for non-zero base) (DG);
* 04-Aug-2006 : Fixed bug 1467706 (missing item labels for zero value bars) (DG);
* 04-Dec-2006 : Fixed bug in rendering to non-primary axis (DG);
* 13-Dec-2006 : Add support for GradientPaint display in legend items (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
* 11-May-2007 : Check for visibility in getLegendItem() (DG);
* 17-May-2007 : Set datasetIndex and seriesIndex in getLegendItem() (DG);
* 18-May-2007 : Set dataset and series Key for LegendItem (DG);
* 07-May-2008 : If minimumBarLength is > 0.0, extend the non-base end of the bar (DG);
* 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
* 24-Jun-2008 : Added barPainter mechanism (DG);
* 26-Jun-2008 : Added crosshair support (DG);
* 13-Aug-2008 : Added shadowPaint attribute (DG);
* 14-Jan-2009 : Added support for seriesVisible flags (PK);
* 03-Feb-2009 : Added defaultShadowsVisible flag - see patch 2511330 (PK);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

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* Contributor(s):  Andrzej Porebski;
*                 Arnaud Lelievre;
* Changes
* ------
* 24-Nov-2005 : Version 1, based on AxisPropertyEditPanel.java (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
*                 Jess Thrysoee (DG);
*/

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 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):   David Forslund;
 *                   Peter Kolb (patches 2497611, 2791407);
 *
 * Changes
 * -------
 * 08-Oct-2007 : Version 1, based on patch 1780779 by David Forslund (DG);
 * 11-Oct-2007 : Renamed ScatterRenderer (DG);
 * 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
 * 14-Jan-2009 : Added support for seriesVisible flags (PK);
 * 16-May-2009 : Patch 2791407 -findRangeBounds() override (PK);
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 *
 * Original Author:  David Browning (for Australian Institute of Marine
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 * Contributor(s):  -;
 *
 * Changes
 * -------
 * 05-Aug-2003 : Version 1, contributed by David Browning (DG);
 * ---------------- JFREECHART 1.0.x -------------------------------
 * 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
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* StandardPieSectionLabelGenerator.java

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* Changes

* ---
* 09-Nov-2004 : Version 1, derived from StandardPieItemLabelGenerator (DG);
* 29-Jul-2005 : Removed unused generateToolTip() method (DG);
* JFreeChart 1.0.x -------------------------------
* 03-May-2006 : Modified DEFAULT_SECTION_LABEL_FORMAT (DG);
* 10-Jan-2007 : Include attributedLabels in equals() test (DG);
* 10-Jul-2007 : Added constructors with locale parameter (DG);
* 23-Apr-2008 : Implemented PublicCloneable (DG);
* 07-Apr-2014 : Fix cloning issue (DG);
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/StandardPieSectionLabelGenerator.java
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    *
    * Original Author:  David Gilbert (for Object Refinery Limited);
    * Contributor(s):  
    *
    * Changes
    * -------
    * 08-Mar-2004 : Version 1 (DG);
    * 14-Jun-2007 : Implemented Serializable, updated API docs (DG);
    * 21-Nov-2007 : Implemented equals() to shut up FindBugs (DG);
    *
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/plot/PieLabelRecord.java

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* Original Author:  David Gilbert (for Object Refinery Limited);
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* 
* Changes
* ------
* 23-Oct-2003 : Version 1 (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 04-Apr-2007 : Fixed typo in API docs (DG);
* 26-Mar-2009 : Added flag to signal visible series change (DG);
*  
*/
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/event/RendererChangeEvent.java
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   *
   * Original Author: Bryan Scott ;
   * Contributor(s): David Gilbert (for Object Refinery Limited);
   *
   * Changes
   * -------
   *
   * 01-Jul-2003 : Version 1 contributed by Bryan Scott (DG);
   */

27-Apr-2005 : Change XYDataset --> TableXYDataset because the table model
assumes all series share the same x-values, and this is not
enforced by XYDataset. Also fixed bug 1191046, a problem
in the getValueAt() method (DG);
/*
*/

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    * Original Author:  David Gilbert (for Object Refinery Limited);
    * Contributor(s):  David Basten;
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    * -------
    * 13-Dec-2001 : Version I (DG);
    * 16-Jan-2002 : Completed Javadocs (DG);
    * 23-Apr-2002 : Added date to the tooltip string (DG);
    * 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 21-Mar-2003 : Implemented Serializable (DG);
* 13-Aug-2003 : Implemented Cloneable (DG);
* 17-Nov-2003 : Implemented PublicCloneable (DG);
* 25-Feb-2004 : Renamed XYToolTipGenerator --> XYItemLabelGenerator (DG);
* 25-May-2004 : Added number formatter (see patch 890496) (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
  getYValue() (DG);
* 20-Apr-2005 : Renamed XYLabelGenerator --> XYItemLabelGenerator (DG);
* 31-Mar-2008 : Added hashCode() method to appease FindBugs (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Changes:
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* 25-Jun-2014 : Version 1 (DG);
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    * Contributor(s): David Gilbert (for Object Refinery Limited);
    * Nicolas Brodu;
* Changes
* -------
* 22-Apr-2003 : Added standard header (DG);
* 09-May-2003 : Added AxisLocation (DG);
* 11-Sep-2003 : Implemented Cloneable (NB);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 31-Jan-2007 : Deprecated (DG);
* /

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* Changes
* -------
* 27-Mar-2003 : Version 1 (DG);
* 18-Aug-2003 : Implemented Cloneable (DG);
* 03-Mar-2005 : Implemented PublicCloneable (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------
* 30-Jan-2007 : Added explicit super() call in constructor (for clarity) (DG);
*
* /

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/general/DefaultValueDataset.java
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* Changes
* -------
* 11-Oct-2001 : Version 1 (DG);
* 18-Oct-2001 : Added implementation of IntervalXYDataSource so that bar plots
*               (using numerical axes) can be plotted from time series
*               data (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* 15-Nov-2001 : Added getSeries() method. Changed name from TimeSeriesDataset
*               to TimeSeriesCollection (DG);
* 07-Dec-2001 : TimeSeries --> BasicTimeSeries (DG);
* 01-Mar-2002 : Added a time zone offset attribute, to enable fast calculation
*               of the time period start and end values (DG);
* 29-Mar-2002 : The collection now registers itself with all the time series
*               objects as a SeriesChangeListener. Removed redundant
*               calculateZoneOffset method (DG);
* 06-Jun-2002 : Added a setting to control whether the x-value supplied in the
*               getXValue() method comes from the START, MIDDLE, or END of the
*               time period. This is a workaround for JFreeChart, where the
*               current date axis always labels the start of a time
*               period (DG);
* 24-Jun-2002 : Removed unnecessary import (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 16-Oct-2002 : Added remove methods (DG);
* 10-Jan-2003 : Changed method names in RegularTimePeriod class (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package and implemented
*               Serializable (DG);
* 04-Sep-2003 : Added getSeries(String) method (DG);
* 15-Sep-2003 : Added a removeAllSeries() method to match
*               XYSeriesCollection (DG);
* 05-May-2004 : Now extends AbstractIntervalXYDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*               getYValue() (DG);
* 06-Oct-2004 : Updated for changed in DomainInfo interface (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
*               release (DG);
* 28-Mar-2005 : Fixed bug in getSeries(int) method (1170825) (DG);
* 13-Dec-2005 : Deprecated the 'domainIsPointsInTime' flag as it is
*               redundant. Fixes bug 1243050 (DG);
* 04-May-2007 : Override getDomainOrder() to indicate that items are sorted
*               by x-value (ascending) (DG);
* 08-May-2007 : Added indexOf(TimeSeries) method (DG);
* 18-Jan-2008 : Changed getSeries(String) to getSeries(Comparable) (DG);
* 19-May-2009 : Implemented XYDomainInfo (DG);
* 26-May-2009 : Implemented XYRangeInfo (DG);
* 09-Jun-2009 : Apply some short-cuts to series value lookups (DG);
* 26-Jun-2009 : Fixed clone() (DG);
* 08-Jan-2012 : Fixed getRangeBounds() method (bug 3445507) (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/

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Changes
-------
20-Oct-2006 : Version 1 (DG);
11-Apr-2008 : Added getXLowValue() and getXHighValue() methods (DG);
09-Jan-2014 : Added add(XIntervalDataItem, boolean) method (DG);
/

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* Changes
* -------
* 16-Nov-2004 : Version 1 (DG);
* ---------------------------- JFREECHART 1.0.x -----------------------------
* 24-Nov-2006 : Updated API docs (DG);
* */

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* *
* Changes:
* 23-Apr-2008 : Version 1, contributed by Diego Pierangeli based on
*    CustomXYURLGenerator by Richard Atkinson, with some
*    modifications by David Gilbert(DG);
* mass
* /

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   * Contributor(s): David Gilbert (for Object Refinery Limited);
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   * Changes
   *-------
   * 18-Dec-2008 : Version 1 (JT);
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 *
 * -------------------
 * ChartPanel.java
 * -------------------
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 *
 * Original Author: David Gilbert (for Object Refinery Limited);
 * Contributor(s): Andrzej Porebski;
 *                Soren Caspersen;
 *                Jonathan Nash;
 *                Hans-Jurgen Greiner;
 *                Andreas Schneider;
 *                Daniel van Enckevort;
 *                David M O'Donnell;
 *                Arnaud Lelievre;
 *                Matthias Rose;
 *                Onno vd Akker;
Sergei Ivanov;
Ulrich Voigt - patch 2686040;
Alessandro Borges - patch 1460845;
Martin Hoeller;

Changes (from 28-Jun-2001)
--------------------------
28-Jun-2001 : Integrated buffering code contributed by S??ren Caspersen (DG);
18-Sep-2001 : Updated header and fixed DOS encoding problem (DG);
22-Nov-2001 : Added scaling to improve display of charts in small sizes (DG);
26-Nov-2001 : Added property editing, saving and printing (DG);
11-Dec-2001 : Transferred saveChartAsPNG method to new ChartUtilities class (DG);
13-Dec-2001 : Added tooltips (DG);
16-Jan-2002 : Added an optional crosshair, based on the implementation by
Jonathan Nash. Renamed the tooltips class (DG);
23-Jan-2002 : Implemented zooming based on code by Hans-Jurgen Greiner (DG);
05-Feb-2002 : Improved tooltips setup. Renamed method attemptSaveAs() -->
doSaveAs() and made it public rather than private (DG);
28-Mar-2002 : Added a new constructor (DG);
09-Apr-2002 : Changed initialisation of tooltip generation, as suggested by
Hans-Jurgen Greiner (DG);
Greiner. Renamed JFreeChartPanel --> ChartPanel, moved constants to ChartPanelConstants interface (DG);
31-May-2002 : Fixed a bug with interactive zooming and added a way to
control if the zoom rectangle is filled in or drawn as an outline. A mouse drag gesture towards the top left now causes
an autoRangeBoth() and is a way to undo zooms (AS);
11-Jun-2002 : Reinstated handleClick method call in mouseClicked() to get crosshairs working again (DG);
13-Jun-2002 : Added check for null popup menu in mouseDragged method (DG);
18-Jun-2002 : Added get/set methods for minimum and maximum chart dimensions (DG);
25-Jun-2002 : Removed redundant code (DG);
27-Aug-2002 : Added get/set methods for popup menu (DG);
26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
22-Oct-2002 : Added translation methods for screen <-> Java2D, contributed
by Daniel van Enckevort (DG);
05-Nov-2002 : Added a chart reference to the ChartMouseEvent class (DG);
22-Nov-2002 : Added test in zoom method for inverted axes, supplied by
David M O'Donnell (DG);
14-Jan-2003 : Implemented ChartProgressListener interface (DG);
14-Feb-2003 : Removed deprecated setGenerateTooltips method (DG);
12-Mar-2003 : Added option to enforce filename extension (see bug id 643173) (DG);
08-Sep-2003 : Added internationalization via use of properties
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* resourceBundle (RFE 690236) (AL);
* 18-Sep-2003 : Added getScaleX() and getScaleY() methods (protected) as
  * requested by Irv Thomae (DG);
* 12-Nov-2003 : Added zooming support for the FastScatterPlot class (DG);
* 24-Nov-2003 : Minor Javadoc updates (DG);
* 04-Dec-2003 : Added anchor point for crosshair calculation (DG);
* 17-Jan-2004 : Added new methods to set tooltip delays to be used in this
  * chart panel. Refer to patch 877565 (MR);
* 02-Feb-2004 : Fixed bug in zooming trigger and added zoomTriggerDistance
  * attribute (DG);
* 08-Apr-2004 : Changed getScaleX() and getScaleY() from protected to
  * public (DG);
* 15-Apr-2004 : Added zoomOutFactor and zoomInFactor (DG);
* 21-Apr-2004 : Fixed zooming bug in mouseReleased() method (DG);
* 13-Jul-2004 : Added check for null chart (DG);
* 04-Oct-2004 : Renamed ShapeUtils --> ShapeUtilities (DG);
* 11-Nov-2004 : Moved constants back in from ChartPanelConstants (DG);
* 12-Nov-2004 : Modified zooming mechanism to support zooming within
  * subplots (DG);
* 26-Jan-2005 : Fixed mouse zooming for horizontal category plots (DG);
* 11-Apr-2005 : Added getFillZoomRectangle() method, renamed
  * setHorizontalZoom() --> setDomainZoomable(),
  * setVerticalZoom() --> setRangeZoomable(), added
  * isDomainZoomable() and isRangeZoomable(), added
  * getHorizontalAxisTrace() and getVerticalAxisTrace(),
  * renamed autoRangeBoth() --> restoreAutoBounds(),
  * autoRangeHorizontal() --> restoreAutoDomainBounds(),
  * autoRangeVertical() --> restoreAutoRangeBounds() (DG);
* 12-Apr-2005 : Removed working areas, added getAnchorPoint() method,
  * added protected accessors for tracelines (DG);
* 18-Apr-2005 : Made constants final (DG);
* 26-Apr-2005 : Removed LOGGER (DG);
* 01-Jun-2005 : Fixed zooming for combined plots - see bug report
  * 1212039, fix thanks to Onno vd Akker (DG);
* 25-Nov-2005 : Reworked event listener mechanism (DG);
* 11-Aug-2006 : Fixed minor bug in restoreAutoRangeBounds() (DG);
* 04-Sep-2006 : Renamed attemptEditChartProperties() -->
  * doEditChartProperties() and made public (DG);
* 13-Sep-2006 : Don't generate ChartMouseEvents if the panel's chart is null
  * (fixes bug 1556951) (DG);
* 05-Mar-2007 : Applied patch 1672561 by Sergei Ivanov, to fix zoom rectangle
  * drawing for dynamic charts (DG);
* 17-Apr-2007 : Fix NullPointerExceptions in zooming for combined plots (DG);
* 24-May-2007 : When the look-and-feel changes, update the popup menu if there
  * is one (DG);
* 06-Jun-2007 : Fixed coordinates for drawing buffer image (DG);
* 24-Sep-2007 : Added zoomAroundAnchor flag, and handle clearing of chart
buffer (DG);
* 25-Oct-2007 : Added default directory attribute (DG);
* 07-Nov-2007 : Fixed (rare) bug in refreshing off-screen image (DG);
* 07-May-2008 : Fixed bug in zooming that triggered zoom for a rectangle
* outside of the data area (DG);
* 08-May-2008 : Fixed serialization bug (DG);
* 15-Aug-2008 : Increased default maxDrawWidth/Height (DG);
* 18-Sep-2008 : Modified creation of chart buffer (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
* Jess Thrysoee (DG);
* 13-Jan-2009 : Fixed zooming methods to trigger only one plot
* change event (DG);
* 16-Jan-2009 : Use XOR for zoom rectangle only if useBuffer is false (DG);
* 18-Mar-2009 : Added mouse wheel support (DG);
* 19-Mar-2009 : Added panning on mouse drag support - based on Ulrich
  Voigt's patch 2686040 (DG);
* 26-Mar-2009 : Changed fillZoomRectangle default to true, and only change
  cursor for CTRL-mouse-click if panning is enabled (DG);
* 01-Apr-2009 : Fixed panning, and added different mouse event mask for
  MacOSX (DG);
* 08-Apr-2009 : Added copy to clipboard support, based on patch 1460845
  by Alessandro Borges (DG);
* 09-Apr-2009 : Added overlay support (DG);
* 10-Apr-2009 : Set chartBuffer background to match ChartPanel (DG);
* 05-May-2009 : Match scaling (and insets) in doCopy() (DG);
* 01-Jun-2009 : Check for null chart in mousePressed() method (DG);
* 08-Jun-2009 : Fixed bug in setMouseWheelEnabled() (DG);
* 06-Jul-2009 : Clear off-screen buffer to fully transparent (DG);
* 10-Oct-2011 : localization fix: bug #3353913 (MH);
* 05-Jul-2012 : Remove reflection for MouseWheelListener - only needed for
  JRE 1.3.1 (DG);
* 02-Jul-2013 : Use ParamChecks class (DG);
* 12-Sep-2013 : Provide auto-detection for JFreeSVG and OrsonPDF
* libraries (no compile time dependencies) (DG);
*
/*

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/ChartPanel.java
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* Changes
* --------
* 11-Oct-2001: Version 1 (DG);
* 18-Dec-2001: Changed order of parameters in constructor (DG);
* 19-Dec-2001: Added a new constructor as suggested by Paul English (DG);
* 14-Feb-2002: Fixed bug in Hour(Date) constructor (DG);
* 26-Feb-2002: Changed getStart(), getMiddle() and getEnd() methods to
*    evaluate with reference to a particular time zone (DG);
* 15-Mar-2002: Changed API (DG);
* 16-Apr-2002: Fixed small time zone bug in constructor (DG);
* 10-Sep-2002: Added getSerialIndex() method (DG);
* 07-Oct-2002: Fixed errors reported by Checkstyle (DG);
* 10-Jan-2003: Changed base class and method names (DG);
* 13-Mar-2003: Moved to com.jrefinery.data.time package, and implemented
*    Serializable (DG);
*    convenience (DG);
* 30-Sep-2004: Replaced getTime().getTime() with getTimeInMillis() (DG);
* 04-Nov-2004: Reverted change of 30-Sep-2004, because it won't work for
*    JDK 1.3 (DG);
--- JFREECHART 1.0.x ---------------------------------------------
* 05-Oct-2006 : Updated API docs (DG);
* 06-Oct-2006 : Refactored to cache first and last millisecond values (DG);
* 04-Apr-2007 : In Hour(Date, TimeZone), peg milliseconds using specified
time zone (DG);
* 16-Sep-2008 : Deprecated DEFAULT_TIME_ZONE (DG);
* 02-Mar-2009 : Added new constructor with Locale (DG);
* 05-Jul-2012 : Replaced getTime().getTime() with getTimeInMillis() (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

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*
* Changes:
* ------
* 16-Mar-2007: Version 1 (DG);
* 
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* DataPackageResources_fr.java
* -------------------------------
* 
* Original Author: Anthony Boulestreau;
* Contributor(s): -;
* 
* Changes
* ------

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* 26-Mar-2002 : Version 1 (AB);
* 17-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/resources/DataPackageResources_fr.java
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* 
* Original Author:  David Gilbert (for Object Refinery Limited);
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* 
* Changes:
* 
* 31-Oct-2002 : Version 1 (DG);
* 11-Jan-2005 : Minor tidy up (DG);
* 28-Sep-2007 : Clean up equals() method (DG);
* 03-Oct-2007 : Make method behaviour consistent with DefaultKeyedValues (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

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 * Changes:
 * -------
16-Mar-2004 : Version 1 (DG);
*
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 /* CompassPlot.java
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 /*
 /* Original Author: Bryan Scott (for the Australian Antarctic Division);
 /* Contributor(s): David Gilbert (for Object Refinery Limited);
 /* Arnaud Lelievre;
 /* Martin Hoeller;
 /*
 /* Changes:
 /* ------------
* 25-Sep-2002 : Version 1, contributed by Bryan Scott (DG);
* 23-Jan-2003 : Removed one constructor (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 27-Mar-2003 : Changed MeterDataset to ValueDataset (DG);
* 21-Aug-2003 : Implemented Cloneable (DG);
* 08-Sep-2003 : Added internationalization via use of properties
  * resourceBundle (RFE 690236) (AL);
* 09-Sep-2003 : Changed Color --> Paint (DG);
* 15-Sep-2003 : Added null data value check (bug report 805009) (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 16-Mar-2004 : Added support for revolutionDistance to enable support for
  * other units than degrees.
* 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
* 17-Apr-2005 : Fixed bug in clone() method (DG);
* 05-May-2005 : Updated draw() method parameters (DG);
* 08-Jun-2005 : Fixed equals() method to handle GradientPaint (DG);
* 16-Jun-2005 : Renamed getData() --> getDatasets() and
  * addData() --> addDataset() (DG);
* 20-Mar-2007 : Fixed serialization (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
  * Jess Thrysoee (DG);
* 10-Oct-2011 : localization fix: bug #3353913 (MH);
* 02-Jul-2013 : Use ParamChecks (DG);
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DefaultXYDataset.java

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Changes
-------
06-Jul-2006 : Version 1 (DG);
02-Nov-2006 : Fixed a problem with adding a new series with the same key
               as an existing series (see bug 1589392) (DG);
25-Jan-2007 : Implemented PublicCloneable (DG);

*/

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* 
* Changes (from 18-Sep-2001)
* ********************
* 18-Sep-2001 : Added standard header (DG);
* 09-Jan-2002 : Updated Javadoc comments (DG);
* 07-Feb-2002 : Changed blank space around title from Insets --> Spacer, to
*               allow for relative or absolute spacing (DG);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 31-Jan-2005 : Updated for changes to super class (DG);
* ******************** JFREECHART 1.0.x ********************
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
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Found in path(s):
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AbstractAnnotation.java

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Original Author: Peter Kolb (see patch 2809117);

Changes:

20-Jun-2009 : Version 1 (PK);

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* Changes
* -------
* 01-Aug-2004 : Initial version (RA);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes:
* ______
* 31-Mar-2008 : Version 1 (DG);
* *
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/PieLabelLinkStyle.java

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*
* Original Author: Bryan Scott (for the Australian Antarctic Division);
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes:
* --------
* 25-Sep-2002 : Version 1, contributed by Bryan Scott (DG);
* 27-Mar-2003 : Implemented Serializable (DG);
* 09-Sep-2003 : Added equals() method (DG);
* 16-Mar-2004 : Implemented Rotation;
* 22-Nov-2007 : Implemented hashCode() (DG);
*
*/

Found in path(s):
* /opt/ cola/ permits/ 1001218797_ 1654022912. 9656126/0/ jfreechart- 1.0- 19- sources.jar/ org/ jfree/ chart/ needle/ LongNeedle.java
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* KeypointPNGEncoderAdapter.java
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* (C) Copyright 2004-2014, by Richard Atkinson and Contributors.
* 
* Original Author: Richard Atkinson;
* Contributor(s): -;
* 
* Changes
* ------
* 01-Aug-2004 : Initial version (RA);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/encoders/KeypointPNGEncoderAdapter.java

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Original Author:  David Browning (for Australian Institute of Marine
Science);
Contributor(s):   David Gilbert (for Object Refinery Limited);

Changes
-------
05-Aug-2003 : Version 1, contributed by David Browning (DG);
28-Aug-2003 : Minor tidy-up (DG);
------------- JFREECHART 1.0.x ---------------------------------------------
02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
21-Nov-2007 : Implemented equals() to shut up FindBugs (DG);
*/

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*
* Original Author: Richard West, Advanced Micro Devices, Inc.;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes:
* -------
* 14-Jun-2007 : Version 1 (RW);
* *
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* Changes:
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* Original Author: Andreas Schroeder;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Changes
* -------
* 31-Mar-2004 : Version 1 (AS);
* 05-May-2004 : Now extends AbstractIntervalXYDataset (DG);
* 15-Jul-2004 : Switched interval access method names (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.xy (DG);
* 17-Nov-2004 : Updates required by changes to DomainInfo interface (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
* 05-Oct-2005 : Made the interval delegate a dataset change listener (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 22-Apr-2008 : Implemented PublicCloneable, and fixed clone() method (DG);
* 18-Oct-2011 : Fixed bug 3190615 - added clear() method (DG);
* /

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* Changes
* -----
* 05-May-2004 : Version 1 (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*               getYValue() (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.xy (DG);
* *
*/

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  * Original Author: David Gilbert (for Object Refinery Limited);
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  * Changes (from 21-Aug-2001)
  * --------------------------
  * 21-Aug-2001: Added standard header. Fixed DOS encoding problem (DG);
  * 18-Sep-2001: Updated e-mail address in header (DG);
  * 15-Oct-2001: Moved to new package (com.jrefinery.data.*) (DG);
  * 22-Oct-2001: Renamed DataSource.java --> Dataset.java etc. (DG);
  * 17-Nov-2001: Updated Javadoc comments (DG);
  * 04-Mar-2002: Updated import statement (DG);
  * 23-Oct-2002: Reorganised code (DG);
  * 10-Jan-2003: Updated Javadocs (DG);
  * 21-Jan-2003: Merged with TableDataset (which only existed in CVS) (DG);
  * 13-Mar-2003: Added KeyedValues2DDataset interface (DG);
  * 23-Apr-2003: Switched CategoryDataset and KeyedValues2DDataset so that
  *    CategoryDataset is the super interface (DG);
  * 18-Aug-2004: Moved from org.jfree.data --> org.jfree.data.category (DG);
  *
  */

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* Original Author:  David Gilbert (for Object Refinery Limited);
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* Changes:
* ------
* 27-Jan-2004 : Version 1 (DG);
* 10-Feb-2004 : Minor change to drawItem() method to make cut-and-paste
*    overriding easier (DG);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState (DG);
* 25-Aug-2004 : Added support for chart entities (required for tooltips) (DG);
* 24-Sep-2004 : Added flag to allow whole series to be drawn as a path
*    (necessary when using a dashed stroke with many data
*    items) (DG);
* 04-Oct-2004 : Renamed BooleanUtils -- > BooleanUtilities (DG);
* 11-Nov-2004 : Now uses ShapeUtilities to translate shapes (DG);
* 27-Jan-2005 : The getLegendItem() method now omits hidden series (DG);
* 28-Jan-2005 : Added new constructor (DG);
* 09-Mar-2005 : Added fillPaint settings (DG);
* 20-Apr-2005 : Use generators for legend tooltips and URLs (DG);
* 22-Jul-2005 : Renamed defaultLinesVisible --> baseLinesVisible,
  * defaultShapesVisible --> baseShapesVisible and
  * defaultShapesFilled --> baseShapesFilled (DG);
* 29-Jul-2005 : Added code to draw item labels (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------
* 20-Jul-2006 : Set dataset and series indices in LegendItem (DG);
* 06-Feb-2007 : Fixed bug 1086307, crosshairs with multiple axes (DG);
* 21-Feb-2007 : Fixed bugs in clone() and equals() (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 08-Jun-2007 : Fix for bug 1731912 where entities are created even for data
  * items that are not displayed (DG);
* 26-Oct-2007 : Deprecated override attributes (DG);
* 02-Jun-2008 : Fixed tooltips at lower edges of data area (DG);
* 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
* 19-Sep-2008 : Fixed bug with drawSeriesLineAsPath - patch by Greg Darke (DG);
* 18-May-2009 : Clip lines in drawPrimaryLine() (DG);
* 05-Jul-2012 : Removed JDK 1.3.1 code (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* /*
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* -----------
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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  Aaron Metzger;
*                   Jonathan Gabbai;
*                   Richard Atkinson;
*                   Michel Santos;
*                   Ted Schwartz (fix for bug 1955483);
* 
* Changes
* -------
* 15-Nov-2001 : Version 1 (DG);
* 03-Apr-2002 : Added an add(double, double) method (DG);
* 29-Apr-2002 : Added a clear() method (ARM);
* 06-Jun-2002 : Updated Javadoc comments (DG);
* 29-Aug-2002 : Modified to give user control over whether or not duplicate 
*               x-values are allowed (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 11-Nov-2002 : Added maximum item count, code contributed by Jonathan 
*               Gabbai (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 04-Aug-2003 : Added getItems() method (DG);
* 15-Aug-2003 : Changed 'data' from private to protected, added new add() 
*               methods with a 'notify' argument (DG);
* 22-Sep-2003 : Added getAllowDuplicateXValues() method (RA);
* 29-Jan-2004 : Added autoSort attribute, based on a contribution by 
*               Michel Santos - see patch 886740 (DG);
* 03-Feb-2004 : Added indexOf() method (DG);
* 16-Feb-2004 : Added remove() method (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.xy (DG);
* 21-Feb-2005 : Added update(Number, Number) and addOrUpdate(Number, Number) 
*               methods (DG);
* 03-May-2005 : Added a new constructor, fixed the setMaximumItemCount() 
*               method to remove items (and notify listeners) if necessary,
*               fixed the add() and addOrUpdate() methods to handle unsorted 
*               series (DG);
* ----------- JFreeChart 1.0.x -----------------------------
* 11-Jan-2005 : Renamed update(int, Number) --> updateByIndex() (DG);
* 15-Jan-2007 : Added toArray() method (DG);
* 31-Oct-2007 : Implemented faster hashCode() (DG);
* 22-Nov-2007 : Reimplemented clone() (DG);
* 01-May-2008 : Fixed bug 1955483 in addOrUpdate() method, thanks to
  * Ted Schwartz (DG);
* 24-Nov-2008 : Further fix for 1955483 (DG);
* 06-Mar-2009 : Added minX, maxX, minY and maxY fields (DG);
* 10-Jun-2009 : Make clones to isolate XYDataItem instances used
  * for data storage (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 
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* Changes
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* 06-Mar-2004 : Version 1 (DG);
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* Changes
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* 25-May-2004 : Version 1 (DG);
* 21-Nov-2005 : Added getters for the mean and standard deviation (DG);
* 12-Feb-2009 : Precompute some constants from the function - see bug 
* 2572016 (DG);
* 28-May-2009 : Implemented equals() and hashCode(), and added serialization 
* support (DG);
* /

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/data/function/NormalDistributionFunction2D.java
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* StandardCrosshairLabelGenerator.java
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* *
* Original Author:  David Gilbert (for Object Refinery Limited);
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Changes:

--------
13-Feb-2009 : Version 1 (DG);

*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/StandardCrosshairLabelGenerator.java

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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
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 * Changes
* 30-Oct-2003 : Version 1 (DG);
* 
* 
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/PlotState.java
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 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  Pierre-Marie Le Biot;
 *
 * Changes
 * ------
 * 25-Nov-2004 : First working version (DG);
 * 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
 * 08-Feb-2005 : Updated for changes in RectangleConstraint class (DG);
* 11-Feb-2005 : Implemented PublicCloneable (DG);
* 23-Feb-2005 : Replaced chart reference with LegendItemSource (DG);
* 16-Mar-2005 : Added itemFont attribute (DG);
* 17-Mar-2005 : Fixed missing fillShape setting (DG);
* 20-Apr-2005 : Added new draw() method (DG);
* 03-May-2005 : Modified equals() method to ignore sources (DG);
* 13-May-2005 : Added settings for legend item label and graphic padding (DG);
* 09-Jun-2005 : Fixed serialization bug (DG);
* 01-Sep-2005 : Added itemPaint attribute (PMLB);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 20-Jul-2006 : Use new LegendItemBlockContainer to restore support for
*   LegendItemEntities (DG);
* 06-Oct-2006 : Add tooltip and URL text to legend item (DG);
* 13-Dec-2006 : Added support for GradientPaint in legend items (DG);
* 16-Mar-2007 : Updated border drawing for changes in AbstractBlock (DG);
* 18-May-2007 : Pass seriesKey and dataset to legend item block (DG);
* 15-Aug-2008 : Added getWrapper() method (DG);
* 19-Mar-2009 : Added entity support - see patch 2603321 by Peter Kolb (DG);
* 11-Mar-2012 : Added sort-order support - patch 3500621 by Simon Kaczor (MH);
* 03-Jul-2013 : Use ParamChecks (DG);
* /

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  jar/org/jfree/chart/title/LegendTitle.java
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Changes
-------
12-Jul-2006 : Version 1 (DG);
06-Oct-2006 : Fixed API doc warnings (DG);
02-Nov-2006 : Fixed a problem with adding a new series with the same key
as an existing series (see bug 1589392) (DG);
22-Apr-2008 : Implemented PublicCloneable (DG);

/*
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* Original Author: David Gilbert (for Object Refinery Limited);
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* *
* Changes
* *
* 13-Aug-2004 : Version 1 (DG);
* 13-Nov-2007 : Implemented equals() (DG);
* *
*/

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* jar/org/jfree/chart/axis/ModuloAxis.java

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* DatasetChangeListener.java

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* Changes (from 24-Aug-2001)

* 24-Aug-2001 : Added standard source header. Fixed DOS encoding problem (DG);
* 15-Oct-2001 : Moved to new package (com.jrefinery.data.*) (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* 07-Aug-2002 : Now extends EventListener (DG);
* 04-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1.0-19-sources-
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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s): Brian Cabana (patch 1943021);
*
* Changes
* -------
* 29-Jan-2004 : Version 1 (DG);
* 31-Mar-2004 : Added setPieIndex() call during drawing (DG);
* 20-Apr-2005 : Small change for update to LegendItem constructors (DG);
* 05-May-2005 : Updated draw() method parameters (DG);
* 16-Jun-2005 : Added get/setDataset() and equals() methods (DG);
* 06-Apr-2006 : Fixed bug 1190647 - legend and section colors not consistent
* when aggregation limit is specified (DG);
* 27-Sep-2006 : Updated draw() method for deprecated code (DG);
* 17-Jan-2007 : Updated prefetchSectionPaints() to check settings in
* underlying PiePlot (DG);
* 17-May-2007 : Added argument check to setPieChart() (DG);
* 18-May-2007 : Set dataset for LegendItem (DG);
* 18-Apr-2008 : In the constructor, register the plot as a dataset listener -
* see patch 1943021 from Brian Cabana (DG);
* 30-Dec-2008 : Added legendItemShape field, and fixed cloning bug (DG);
* 09-Jan-2009 : See ignoreNullValues to true for sub-chart (DG);
* 01-Jun-2009 : Set series key in getLegendItems() (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
* */

Found in path(s):
*/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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KeyedValueComparatorType.java

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Changes:
--------
05-Mar-2003 : Version 1 (DG);
23-Sep-2012 : Make this class serializable (DG);

/*

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* Contributor(s): Sam (oldman);
*
* Changes
* -------
* 17-Nov-2001 : Version 1 (DG);
* 22-Jan-2002 : Removed the getCategoryCount() method, updated Javadoc
* comments (DG);
* 18-Apr-2002 : getCategories() now returns List instead of Set (oldman);
* 23-Oct-2002 : Reorganised the code: PieDataset now extends KeyedValues
* interface (DG);
* 04-Mar-2003 : Now just replicates the KeyedValuesDataset interface (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* StandardXYItemRenderer.java

* ..............................

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*                Andreas Schneider;
*                Norbert Kiesel (for TBD Networks);
*                Christian W. Zuckschwerdt;
*                Bill Kelemen;
*                Nicolas Brodu (for Astrium and EADS Corporate Research
*                Center);

* Changes:
*  .........
* 19-Oct-2001 : Version 1, based on code by Mark Watson (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* 21-Dec-2001 : Added working line instance to improve performance (DG);
* 22-Jan-2002 : Added code to lock crosshairs to data points. Based on code
*                by Jonathan Nash (DG);
* 23-Jan-2002 : Added DrawInfo parameter to drawItem() method (DG);
* 28-Mar-2002 : Added a property change listener mechanism so that the
*                renderer no longer needs to be immutable (DG);
* 02-Apr-2002 : Modified to handle null values (DG);
* 09-Apr-2002 : Modified draw method to return void. Removed the translated
*                zero from the drawItem method. Override the initialise()
* method to calculate it (DG);
* 13-May-2002: Added code from Andreas Schneider to allow changing shapes/colors per item (DG);
* 24-May-2002: Incorporated tooltips into chart entities (DG);
* 25-Jun-2002: Removed redundant code (DG);
* 05-Aug-2002: Incorporated URLs for HTML image maps into chart entities (RA);
* 08-Aug-2002: Added discontinuous lines option contributed by Norbert Kiesel (DG);
* 20-Aug-2002: Added user definable default values to be returned by protected methods unless overridden by a subclass (DG);
* 23-Sep-2002: Updated for changes in the XYItemRenderer interface (DG);
* 02-Oct-2002: Fixed errors reported by Checkstyle (DG);
* 25-Mar-2003: Implemented Serializable (DG);
* 01-May-2003: Modified drawItem() method signature (DG);
* 15-May-2003: Modified to take into account the plot orientation (DG);
* 29-Jul-2003: Amended code that doesn't compile with JDK 1.2.2 (DG);
* 30-Jul-2003: Modified entity constructor (CZ);
* 24-Aug-2003: Added null/NaN checks in drawItem (BK);
* 08-Sep-2003: Fixed serialization (NB);
* 16-Sep-2003: Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 21-Jan-2004: Override for getLegendItem() method (DG);
* 27-Jan-2004: Moved working line into state object (DG);
* 10-Feb-2004: Changed drawItem() method to make cut-and-paste overriding easier (DG);
* 25-Feb-2004: Replaced CrosshairInfo with CrosshairState. Renamed XYToolTipGenerator --> XYItemLabelGenerator (DG);
* 08-Jun-2004: Modified to use getX() and getY() methods (DG);
* 15-Jul-2004: Switched getX() with getXValue() and getY() with getYValue() (DG);
* 25-Aug-2004: Created addEntity() method in superclass (DG);
* 08-Oct-2004: Added 'gapThresholdType' as suggested by Mike Watts (DG);
* 11-Nov-2004: Now uses ShapeUtilities to translate shapes (DG);
* 23-Feb-2005: Fixed getLegendItem() method to show lines. Fixed bug 1077108 (shape not visible for first item in series) (DG);
* 10-Apr-2005: Fixed item label positioning with horizontal orientation (DG);
* 20-Apr-2005: Use generators for legend tooltips and URLs (DG);
* 27-Apr-2005: Use generator for series label in legend (DG);

----------- JFREECHART 1.0.x -------------------------------
* 15-Jun-2006: Fixed bug (1380480) for rendering series as path (DG);
* 06-Feb-2007: Fixed bug 1086307, crosshairs with multiple axes (DG);
* 14-Mar-2007: Fixed problems with the equals() and clone() methods (DG);
* 23-Mar-2007: Clean-up of shapesFilled attributes (DG);
* 20-Apr-2007: Updated getLegendItem() and drawItem() for renderer change (DG);
* 17-May-2007: Set datasetIndex and seriesIndex in getLegendItem() method (DG);
* 18-May-2007: Set dataset and seriesKey for LegendItem (DG);
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/renderer/xy/StandardXYItemRenderer.java

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* Changes
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* 23-Feb-2005 : Version 1 (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar
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/* */
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/* */
/* Original Author:  David Gilbert (for Object Refinery Limited); */
/* Contributor(s):  Sergei Ivanov; */
/* */
/* Changes */
/* ------ */
/* 10-Jan-2005 : Version 1 (DG); */
/* 21-May-2007 : Added clearObservations() and removeAllBins() (SI); */
/* 10-Jul-2007 : Added null argument check to constructor (DG); */
/* 03-Jul-2013 : Use ParamChecks (DG); */
/* */
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.96561260/jfreechart-1-0-19-sources-
jar/org/jfree/data/statistics/SimpleHistogramDataset.java
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 * ------------------
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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  -;
 *
 * Changes
 * -------
 * 05-Mar-2004 : Version 1 (DG);
 *
 */

Found in path(s):
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* TimePeriodValue.java
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*
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;
*
* Changes
* -------
* 22-Apr-2003 : Version 1 (DG);
* 03-Oct-2006 : Added null argument check to constructor (DG);
* 07-Apr-2008 : Added a toString() override for debugging (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/time/TimePeriodValue.java

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 * ----------------
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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  Richard Atkinson;
 * Xavier Poinsard;
 * Robert Fuller;
 *
 * Changes:
 * -------
 * 23-May-2002 : Version 1 (DG);
 * 12-Jun-2002 : Added Javadoc comments (DG);
 * 26-Jun-2002 : Added methods for image maps (DG);
 * 05-Aug-2002 : Added constructor and accessors for URL support in image maps
 * 05-Sep-2002 : Added getImageMapAreaTag(boolean) to support OverLIB for
 * tooltips http://www.bosrup.com/web/overlib (RA);
 * 03-Oct-2002 : Fixed errors reported by Checkstyle (DG);
 * 08-Oct-2002 : Changed getImageMapAreaTag to use title instead of alt
 * attribute so HTML image maps now work in Mozilla and Opera as
Found in path(s):
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PaintMap.java

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Changes:
--------
27-Sep-2006 : Version 1 (DG);
17-Jan-2007 : Changed TreeMap to HashMap, so that different classes that implement Comparable can be used as keys (DG);
02-Jul-2013 : Use ParamChecks class (DG);

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* Changes
* -------
* 04-Dec-2006 : Version 1 (DG);
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* 
* Original Author: Richard Atkinson;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* 
* Changes:
* --------
* 05-Aug-2002 : Version 1, contributed by Richard Atkinson (RA);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 21-Mar-2003 : Implemented Serializable (DG);
* 13-Aug-2003 : Implemented Cloneable (DG);
* 17-Nov-2003 : Implemented PublicCloneable (DG);
* 25-Feb-2004 : Renamed XYS ToolTipGenerator --> XYS ItemLabelGenerator (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/CustomXYS TooltipGenerator.java
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*             David Li;
*             Wolfgang Irler;
*             Luke Quinane;
* 
* Changes (from 2-Oct-2002)
* -------------------------
* 02-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 17-Jan-2003 : Dropped outlineStroke attribute (DG);
* 08-Oct-2003 : Applied patch for displaying series line style, contributed by
*             Luke Quinane (DG);
* 21-Jan-2004 : Added the shapeFilled flag (DG);
* 04-Jun-2004 : Added equals() method, implemented Serializable (DG);
* 25-Nov-2004 : Changes required by new LegendTitle implementation (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
*             release (DG);
* 20-Apr-2005 : Added tooltip and URL text (DG);
* 28-Nov-2005 : Separated constructors for AttributedString labels (DG);
* 10-Dec-2005 : Fixed serialization bug (1377239) (DG);
* 20-Jul-2006 : Added dataset and series index fields (DG);
* 13-Dec-2006 : Added fillPaintTransformer attribute (DG);
* 18-May-2007 : Added dataset and seriesKey fields (DG);
* 03-Aug-2007 : Fixed null pointer exception (DG);
* 23-Apr-2008 : Added new constructor and implemented Cloneable (DG);
* 17-Jun-2008 : Added optional labelFont and labelPaint attributes (DG);
* 15-Oct-2008 : Added new constructor (DG);
* 28-Apr-2009 : Added various setter methods (DG);
* 01-Jul-2013 : Use ParamChecks class (DG);
* */

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 *
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 * Contributor(s):   Alex Weber;
 *
 * Changes
 * -------
 * 27-May-2002 : Version 1, incorporating code and ideas by Alex Weber (DG);
 * 13-Jun-2002 : Added Javadocs (DG);
 * 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
 * 23-Nov-2005 : Now extends EventListener (DG);
 *
 * JFREECHART 1.0.x ---------------------------------------------
 *
 * 24-May-2007 : Updated API docs (DG);
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 *
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 * Contributor(s): David Gilbert (for Object Refinery Limited);
 *
 * Changes
 * ------
 * 14-Jan-2005 : Added standard header (DG);
 * 01-May-2007 : Fixed equals() and serialization bugs (DG);
 *
 */

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 *                 Chris Boek;
 *                 Peter Kolb (patches 1934255 and 2603321);
 *                 Andrew Mickish (patch 1870189);
 *                 Fawad Halim (bug 2201869);
 *
 * Changes (from 23-Jun-2001)
 * --------------------------
 * 23-Jun-2001 : Modified to work with null data source (DG);
 * 18-Sep-2001 : Updated header (DG);
* 27-Nov-2001: Changed constructors from public to protected, updated Javadoc comments (DG);
* 16-Jan-2002: Added an optional crosshair, based on the implementation by Jonathan Nash (DG);
* 26-Feb-2002: Updated import statements (DG);
* 22-Apr-2002: Added a setRange() method (DG);
* 25-Jun-2002: Removed redundant local variable (DG);
* 25-Jul-2002: Changed order of parameters in ValueAxis constructor (DG);
* 21-Aug-2002: The setTickUnit() method now turns off auto-tick unit selection (fix for bug id 528885) (DG);
* 05-Sep-2002: Updated the constructors to reflect changes in the Axis class (DG);
* 18-Sep-2002: Fixed errors reported by Checkstyle (DG);
* 25-Sep-2002: Added new setRange() methods, and deprecated setAxisRange() (DG);
* 04-Oct-2002: Changed auto tick selection to parallel number axis classes (DG);
* 24-Oct-2002: Added a date format override (DG);
* 08-Nov-2002: Moved to new package com.jrefinery.chart.axis (DG);
* 14-Jan-2003: Changed autoRangeMinimumSize from Number --> double, moved crosshair settings to the plot (DG);
* 15-Jan-2003: Removed anchor date (DG);
* 20-Jan-2003: Removed unnecessary constructors (DG);
* 26-Mar-2003: Implemented Serializable (DG);
* 02-May-2003: Added additional units to createDateStandardDateTickUnits() method, as suggested by mhilpert in bug report 723187 (DG);
* 13-May-2003: Merged HorizontalDateAxis and VerticalDateAxis (DG);
* 24-May-2003: Added support for underlying timeline for SegmentedTimeline (BK);
* 16-Jul-2003: Applied patch from Pawel Pabis to fix overlapping dates (DG);
* 22-Jul-2003: Applied patch from Pawel Pabis for monthly ticks (DG);
* 25-Jul-2003: Fixed bug 777561 and 777586 (DG);
* 13-Aug-2003: Implemented Cloneable and added equals() method (DG);
* 02-Sep-2003: Fixes for bug report 790506 (DG);
* 04-Sep-2003: Fixed tick label alignment when axis appears at the top (DG);
* 10-Sep-2003: Fixes for segmented timeline (DG);
* 17-Sep-2003: Fixed a layout bug when multiple domain axes are used (DG);
* 29-Oct-2003: Added workaround for font alignment in PDF output (DG);
* 07-Nov-2003: Modified to use new tick classes (DG);
* 12-Nov-2003: Modified tick labelling to use roll unit from DateTickUnit when a calculated tick value is hidden (which can occur in segmented date axes) (DG);
* 24-Nov-2003: Fixed some problems with the auto tick unit selection, and fixed bug 846277 (labels missing for inverted axis) (DG);
* 30-Dec-2003: Fixed bug in refreshTicksHorizontal() when start of time unit (ex. 1st of month) was hidden, causing infinite loop (BK);
* 13-Jan-2004: Fixed bug in previousStandardDate() method (fix by Richard Wardle) (DG);
* 21-Jan-2004 : Renamed translateJava2DToValue --> java2DToValue, and translateValueToJava2D --> valueToJava2D (DG);
* 12-Mar-2004 : Fixed bug where date format override is ignored for vertical axis (DG);
* 16-Mar-2004 : Added plotState to draw() method (DG);
* 07-Apr-2004 : Changed string width calculation (DG);
* 21-Apr-2004 : Fixed bug in estimateMaximumTickLabelWidth() method (bug id 939148) (DG);
* 11-Jan-2005 : Removed deprecated methods in preparation for 1.0.0 release (DG);
* 13-Jan-2005 : Fixed bug (see http://www.jfree.org/forum/viewtopic.php?t=11330) (DG);
* 21-Apr-2005 : Replaced Insets with RectangleInsets, removed redundant argument from selectAutoTickUnit() (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 10-Feb-2006 : Added some API doc comments in respect of bug 821046 (DG);
* 19-Apr-2006 : Fixed bug 1472942 in equals() method (DG);
* 25-Sep-2006 : Fixed bug 1564977 missing tick labels (DG);
* 15-Jan-2007 : Added get/setTimeZone() suggested by 'skunk' (DG);
* 18-Jan-2007 : Fixed bug 1638678, time zone for calendar in previousStandardDate() (DG);
* 04-Apr-2007 : Use time zone in date calculations (CB);
* 19-Apr-2007 : Fix exceptions in setMinimum/MaximumDate() (DG);
* 03-May-2007 : Fixed minor bugs in previousStandardDate(), with new JUnit tests (DG);
* 21-Nov-2007 : Fixed warnings from FindBugs (DG);
* 01-Sep-2008 : Use new methods from DateRange, added fix for bug 2078057 (DG);
* 18-Sep-2008 : Added locale to go with timezone (DG);
* 25-Sep-2008 : Added minor tick support, see patch 1934255 by Peter Kolb (DG);
* 25-Nov-2008 : Added bug fix 2201869 by Fawad Halim (DG);
* 21-Jan-2009 : Check tickUnit for minor tick count (DG);
* 19-Mar-2009 : Added entity support - see patch 2603321 by Peter Kolb (DG);
* 08-Feb-2012 : Bugfix for endless-loop, bug 3484403 by rbrabe (MH);
* 25-Jul-2013 : Update event notification to use fireChangeEvent() (DG);
* 01-Aug-2013 : Added attributedLabel override to support superscripts, subscripts and more (DG);
* 12-Sep-2013 : Prevent exception when zooming in below 1 millisecond (DG);
* 23-Nov-2013 : Deprecated DEFAULT_DATE_TICK_UNIT to fix bug #977 (DG);
* 10-Mar-2014 : Add get/setLocale() methods (DG);
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* Arnaud Lelievre;
* Daniel Gredler;
* Changes:
* -------
* 24-Nov-2005 : Version 1, based on PlotPropertyEditPanel.java (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
*                Jess Thrysoee (DG);
* 27-Feb-2009 : Fixed bug 2612649, NullPointerException (DG);
* 03-Nov-2011 : Added support for DefaultPolarPlotEditor (MH);
* /
* Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/editor/DefaultPlotEditor.java
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 * 
 * Original Author:  David Browning;
 * Contributor(s):  David Gilbert (for Object Refinery Limited);
 * 
 * Changes
 * ------
 * 05-Aug-2003 : Version 1, contributed by David Browning (DG);
 * 13-Aug-2003 : Implemented Cloneable (DG);
 * 28-Aug-2003 : Updated for changes in dataset API (DG);
 * 25-Feb-2004 : Renamed XYToolTipGenerator --> XYItemLabelGenerator (DG);
 * 27-Feb-2004 : Renamed BoxAndWhiskerItemLabelGenerator -->
 *     BoxAndWhiskerXYItemLabelGenerator, and modified to use
 *     MessageFormat (DG);
 * 15-Jul-2004 : Switched getX() with getXValue() and getY() with
 *     getYValue() (DG);
 * 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/BoxAndWhiskerXYToolTipGenerator.java
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* (C) Copyright 2003-2014, by Sylvain Vieujot and Contributors.
* *
* Original Author: Sylvain Vieujot;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Simon Legner (GitHub #298);
* *
* Changes
* ------
* 18-Feb-2004: Version 1 contributed by Sylvain Vieujot (DG);
* 04-Feb-2014: Make direction strings user-definable (SL);
Open Source Used In Data Center Network Manager 11.5(1) 24229

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/axis/CompassFormat.java

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 * Original Author: David Gilbert (for Object Refinery Limited);
 * Contributor(s): -;
 *
 * Changes (from 24-Aug-2001)
 * --------------------------
 * 24-Aug-2001 : Added standard source header. Fixed DOS encoding problem (DG);
 * 07-Nov-2001 : Updated header (DG);
 * 14-Oct-2002 : Now extends EventListener (DG);
 */
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 *
 * Original Author: Richard Atkinson;
 * Contributors: David Gilbert (for Object Refinery Limited);
 *
 * Changes:
 * --------
 * 05-Aug-2002 : Version 1, contributed by Richard Atkinson;
 * 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
 * 07-Mar-2003 : Modified to use KeyedValuesDataset and added pieIndex
 *               parameter (DG);
 * 24-Apr-2003 : Switched around PieDataset and KeyedValuesDataset (DG);
 * -------------- JFREECHART 1.0.x ------------------------------------------
 */
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/urls/PieURLGenerator.java
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 *
 * Original Author:  Hari (ourhari@hotmail.com);
 * Contributor(s):  David Gilbert (for Object Refinery Limited);
 * Richard Atkinson;
 * Christian W. Zuckschwerdt;
 * Martin Krauskopf;
 *
 * Changes:
* 03-Apr-2002 : Version 1, contributed by Hari. This class is based on the
  StandardXYItemRenderer class (DG);
* 09-Apr-2002 : Removed the translated zero from the drawItem method -
  overridden the initialise() method to calculate it (DG);
* 30-May-2002 : Added tool tip generator to constructor to match super
  class (DG);
* 25-Jun-2002 : Removed unnecessary local variable (DG);
* 05-Aug-2002 : Small modification to drawItem method to support URLs for HTML
  image maps (RA);
* 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 07-Nov-2002 : Renamed AreaXYItemRenderer --> XYAreaRenderer (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 01-May-2003 : Modified drawItem() method signature (DG);
* 27-Jul-2003 : Made line and polygon properties protected rather than
  private (RA);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 07-Oct-2003 : Added renderer state (DG);
* 08-Dec-2003 : Modified hotspot for chart entity (DG);
* 10-Feb-2004 : Changed the drawItem() method to make cut-and-paste overriding
easier. Also moved state class into this class (DG);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState. Renamed
  XYToolTipGenerator --> XYItemLabelGenerator (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
gGetYValue() (DG);
* 11-Nov-2004 : Now uses ShapeUtilities to translate shapes (DG);
* 19-Jan-2005 : Now accesses primitives only from dataset (DG);
* 21-Mar-2005 : Override getLegendItem() and equals() methods (DG);
* 20-Apr-2005 : Use generators for legend tooltips and URLs (DG);
* 06-Feb-2007 : Fixed bug 1086307, crosshairs with multiple axes (DG);
* 14-Feb-2007 : Fixed bug in clone() (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
* 04-May-2007 : Set processVisibleItemsOnly flag to false (DG);
* 17-May-2007 : Set datasetIndex and seriesIndex in getLegendItem() (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 17-Jun-2008 : Apply legend font and paint attributes (DG);
* 31-Dec-2008 : Fix for bug 2471906 - dashed outlines performance issue (DG);
* 11-Jun-2009 : Added a useFillPaint flag and a GradientPaintTransformer for
  the paint under the series (DG);
* 06-Oct-2011 : Avoid GeneralPath methods requiring Java 1.5 (MK);
* 03-Jul-2013 : Use ParamChecks (DG);
*
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* Changes
* -------
* 28-Nov-2005 : Version 1 (DG);
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 *
 * Original Author:  Martin Hoeller;
 * Contributor(s):  -;
 *
 * Changes
 * ------
 *
 * 03-Nov-2011 : Version 1 (MH);
 *
 */

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* ------------
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* 
* Original Author:  Achilleus Mantzios;
* Contributor(s):  David Gilbert (for Object Refinery Limited);
* 
* Changes
* -------
* 06-Feb-2002 : Version 1, based on code contributed by Achilleus
* Mantzios (DG);
* 
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*
* Original Author:  David Gilbert (for Object Refinery Limited);
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* Changes
* ------
* 28-Aug-2003 : Version 1 (DG);
* 17-Nov-2003 : Fixed bug in calculations of outliers and median (DG);
* 10-Jan-2005 : Removed deprecated methods in preparation for 1.0.0
*               release (DG);
* _______________ JFREECHART 1.0.x ________________________________
* 15-Nov-2006 : Cleaned up handling of null arguments, and null or NaN items
*               in the list (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
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* Contributor(s): Peter Kolb (patch 2809117);
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* Changes:
* --------
* 29-Jul-2005 : Version 1, based on CategoryTextAnnotation (DG);
* 06-Mar-2007 : Reimplemented hashCode() (DG);
* 23-Apr-2008 : Implemented PublicCloneable (DG);
* 24-Jun-2009 : Now extends AbstractAnnotation (see patch 2809117 by PK) (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
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* Changes
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* 18-Mar-2014 : Version 1 (DG);
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* Contributor(s): David Gilbert (for Object Refinery Limited);
* *
* Changes
* -----
* 25-Nov-2003 : Version 1 contributed by Robert Redburn (with some
* modifications to match style conventions) (DG);
* ------------ JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* *
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 * Contributors: David Gilbert (for Object Refinery Limited);
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 * Changes:
 * --------
 * 05-Aug-2002 : Version 1, contributed by Richard Atkinson;
 * 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
 * 07-Mar-2003 : Modified to use KeyedValuesDataset and added pieIndex
 *   parameter (DG);
 * 21-Mar-2003 : Implemented Serializable (DG);
 * 24-Apr-2003 : Switched around PieDataset and KeyedValuesDataset (DG);
 * 31-Mar-2004 : Added an optional 'pieIndex' parameter (DG);
 * 13-Jan-2005 : Fixed for compliance with XHTML 1.0 (DG);
 * 24-Nov-2006 : Fixed equals() method and added argument checks (DG);
* 17-Apr-2007 : Encode section key in generateURL() (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

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    * Contributor(s):  Andrew Mickish (patch 1868745);
    *                  Peter Kolb (patches 1934255 and 2603321);
    *
    * Changes
    *
    * 24-Aug-2006 : Version 1 (DG);
* 22-Mar-2007 : Use defaultAutoArrange attribute (DG);
* 02-Aug-2007 : Fixed zooming bug, added support for margins (DG);
* 14-Feb-2008 : Changed default minorTickCount to 9 - see bug report 1892419 (DG);
* 15-Feb-2008 : Applied a variation of patch 1868745 by Andrew Mickish to fix a labelling bug when the axis appears at the top or right of the chart (DG);
* 19-Mar-2008 : Applied patch 1902418 by Andrew Mickish to fix bug in tick labels for vertical axis (DG);
* 26-Mar-2008 : Changed createTickLabel() method from private to protected - see patch 1918209 by Andrew Mickish (DG);
* 25-Sep-2008 : Moved minor tick fields up to superclass, see patch 1934255 by Peter Kolb (DG);
* 14-Jan-2009 : Fetch minor ticks from TickUnit, and corrected createLogTickUnits() (DG);
* 21-Jan-2009 : No need to call setMinorTickCount() in constructor (DG);
* 19-Mar-2009 : Added entity support - see patch 2603321 by Peter Kolb (DG);
* 30-Mar-2009 : Added pan(double) method (DG);
* 28-Oct-2011 : Fixed endless loop for 0 TickUnit, # 3429707 (MH);
* 02-Jul-2013 : Use ParamChecks (DG);
* 01-Aug-2013 : Added attributedLabel override to support superscripts, subscripts and more (DG);
* 18-Mar-2014 : Add support for super-scripted tick labels (DG);

*/

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KeyedValuesDataset.java

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Changes:
-------
05-Mar-2003 : Version 1 (DG);
24-Apr-2003 : Switched places with PieDataset (DG);

Found in path(s):

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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* -------
* 09-Nov-2004 : Version 1, draws out code from StandardPieItemLabelGenerator
*               and StandardPieToolTipGenerator (DG);
* 03-May-2006 : Fixed bug 1480978, a problem in the clone() method (DG);
* 23-Nov-2007 : Implemented hashCode() (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

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* Changes:
* --------
* 31-Oct-2002 : Version 1 (DG);
* 13-Mar-2003 : Added equals() method, and implemented Serializable (DG);
* 18-Aug-2003 : Implemented Cloneable (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.base (DG);
* 15-Sep-2004 : Added PublicCloneable interface (DG);
* --------------------- JFREECHART 1.0.x ---------------------------------------------
* 11-Jun-2007 : Added toString() method to help with debugging (DG);
* 15-Feb-2008 : Prevent null key (DG);
* 07-Apr-2008 : Removed to-do item (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
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* Original Author: Eric Thomas (www.isti.com);
* Contributor(s): David Gilbert (for Object Refinery Limited);
* 
* Changes:
* --------
* 21-Apr-2005 : Version 1 contributed by Eric Thomas (ET);
* 21-Nov-2007 : Implemented hashCode() (DG);
* 
*/

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* Changes:
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* 28-Oct-2002 : Version 1 (DG);
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* Original Author: Daniel Bridenbecker, Solution Engineering, Inc.;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Martin Hoeller (patch 2850344);
*
* Changes
* --------
* 19-Jan-2004 : Version 1, contributed by DB with minor changes by DG (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*                  getYValue() (DG);
* 04-Oct-2004 : Renamed BooleanUtils --> BooleanUtilities (DG);
* 20-Apr-2005 : Update for change to LegendItem class (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 04-Aug-2006 : Implemented equals() and clone() (DG);
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* 14-Mar-2007 : Fixed clone() method (DG);
* 04-May-2007 : Fixed lookup for series paint and stroke (DG);
* 18-May-2007 : Set dataset for LegendItem (DG);
* 03-Sep-2009 : Applied patch 2850344 by Martin Hoeller (DG);
* 27-Nov-2009 : Updated for modification to PolarItemRenderer interface (DG);
* 03-Oct-2011 : Fixed potential NPE in equals() (MH);
* 03-Oct-2011 : Added flag to connectFirstAndLastPoint (MH);
* 03-Oct-2011 : Added tooltip and URL generator support (MH);
* 03-Oct-2011 : Added some configuration options for the legend (MH);
* 03-Oct-2011 : Added support for PolarPlot's angleOffset and direction (MH);
* 16-Oct-2011 : Fixed serialization problems with fillComposite (MH);
* 18-Sep-2012 : Fixed bug 3508799: seriesKey always null in LegendItem (DG);
* 01-Jul-2013 : Remove deprecated method calls (DG);
* 04-Jul-2013 : Fix rendering bug when axis is inverted (DG);
* */

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 * -------------------
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 *
 * Original Author:  Bryan Scott; Andy
 * Contributor(s):  David Gilbert (for Object Refinery Limited);
 * Thomas Morgner;
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 * Changes
 * -------
 * 26-Apr-2002 : Creation based on JdbcXYDataSet, but extending
 * DefaultPieDataset (BS);
 * 24-Jun-2002 : Removed unnecessary import and local variable (DG);
 * 13-Aug-2002 : Updated Javadoc comments and imports, removed default
 * constructor (DG);
 * 18-Sep-2002 : Updated to support BIGINT (BS);
 * 21-Jan-2003 : Renamed JdbcPieDataset --> JDBCPieDataset (DG);
 * 03-Feb-2003 : Added Types.DECIMAL (see bug report 677814) (DG);
* 05-Jun-2003 : Updated to support TIME, optimised executeQuery method (BS);
* 30-Jul-2003 : Added empty constructor and executeQuery(connection,string) method (BS);
* 02-Dec-2003 : Throwing exceptions allows to handle errors, removed default constructor, as without a connection, a query can never be executed (TM);
* 04-Dec-2003 : Added missing Javadocs (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
* 
* /*
* .endDate: 23-Jan-2008
* */

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* Changes
* ------
* 03-Sep-2002 : Updated Javadoc comments (DG);
* 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 08-Nov-2002 : Moved to new package com.jrefinery.chart.axis (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 13-May-2003 : Renamed HorizontalMarkerAxisBand --> MarkerAxisBand (DG);
* 29-Oct-2003 : Added workaround for font alignment in PDF output (DG);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 07-Apr-2004 : Changed text bounds calculation (DG);
* /

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* Changes
* ------
* 05-Aug-2003 : Version 1, contributed by David Browning (DG);
* 01-Sep-2003 : Made storage internal rather than extending ArrayList (DG);
* ------------ JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* */

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* Changes
* -------
* 20-Oct-2006 : Version 1 (DG);
* 20-Feb-2007 : Added getYHighValue() and getYLowValue() methods (DG);
* 09-Jan-2014 : Added add(YIntervalDataItem, boolean) method (DG);
* */

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* Changes
* -------
* 11-May-2004 : Version 1 (DG);
* 20-Apr-2005 : Renamed StandardCategoryLabelGenerator
*       --> StandardCategoryItemLabelGenerator (DG);
* -------------- JFREECHART 1.0.0 -----------------------------
* 03-May-2005 : Added equals() implementation, to fix bug 1481087 (DG);
* /

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* Changes
* ------
* 21-Mar-2002 : Version 1 (DG);
* 17-Oct-2002 : Fixed errors reported by Checkstyle (DG);
*
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* Changes
* -------
* 29-Apr-2004 : Version 1 (DG);
* 07-Jul-2004 : Added a group list to ensure group index is consistent, fixed
  cloning problem (DG);
* 18-Aug-2005 : Added casts in clone() method to suppress 1.5 compiler
  warnings - see patch 1260587 (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* /
* /

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* ------------------------------
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* -------
* 20-Oct-2006 : Version 1 (DG);
* 27-Nov-2006 : Added clone() override (DG);
* 18-Jan-2008 : Added removeSeries() and removeAllSeries() methods (DG);
* 22-Apr-2008 : Implemented PublicCloneable (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/xy/XIntervalSeriesCollection.java
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 * DefaultLogAxisEditor.java
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*
* Original Author: Martin Hoeller;
* Contributor(s): -;
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* Changes
* -------
* 03-Nov-2011 : Version 1 (MH);
* 
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/editor/DefaultLogAxisEditor.java
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;

* Changes
* -------
* 13-Dec-2001 : Version 1 (DG);
* 16-Jan-2002 : Completed Javadocs (DG);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 24-Oct-2002 : Method now specifies category index (DG);
* 05-Nov-2002 : Replaced reference to CategoryDataset with TableDataset (DG);
* 21-Jan-2003 : TableDataset merged with CategoryDataset (DG);
* 10-Apr-2003 : Changed CategoryDataset --> KeyedValues2DDataset (DG);
* 01-May-2003 : Added generateValueLabel() method (with a plan to renaming this interface to reflect its more general use) (DG);
* 09-Jun-2003 : Renamed CategoryToolTipGenerator
*     --> CategoryItemLabelGenerator (DG);
* 13-Aug-2003 : Added clone() method (DG);
* 12-Feb-2004 : Removed clone() method (DG);
* 15-Apr-2004 : Moved generateToolTip() method into CategoryToolTipGenerator interface (DG);
* 11-May-2004 : Renamed CategoryItemLabelGenerator
*     --> CategoryLabelGenerator (DG);
* 31-Jan-2005 : Added generateRowLabel() and generateColumnLabel() methods (DG);
* 20-Apr-2005 : Reverted name change of 11-May-2004 (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/CategoryItemLabelGenerator.java
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CrosshairState.java

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Contributor(s): -;

Changes
-------
24-Jan-2002 : Version 1 (DG);
05-Mar-2002 : Added Javadoc comments (DG);
26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
19-Sep-2003 : Modified crosshair distance calculation (DG);
04-Dec-2003 : Crosshair anchor point now stored outside chart since it is dependent on the display target (DG);
25-Feb-2004 : Replaced CrosshairInfo --> CrosshairState (DG);
------------ JFREECHART 1.0.x ---------------------------------------------
13-Oct-2006 : Fixed initialisation of CrosshairState - see bug report 1565168 (DG);
06-Feb-2007 : Added new fields and methods to fix bug 1086307 (DG);
26-Jun-2008 : Now tracks dataset index (DG);

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-------------
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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): Peter Kolb (patch 2809117);

Changes:
--------
09-Feb-2005 : Version 1 (DG);
02-Jul-2013 : Use ParamChecks (DG);

*/

Found in path(s):
*/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/annotations/XYPolygonAnnotation.java
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*
* Original Author: Achilleus Mantzios;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* -------
* 06-Feb-2002 : Version 1, based on code contributed by Achilleus
*   Mantzios (DG);
* 05-May-2004 : Now extends AbstractXYDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*   getYValue() (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 22-Apr-2008 : Implemented PublicCloneable (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*="/n
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/xy/DefaultWindDataset.java
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MiddlePinNeedle.java

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Original Author: Bryan Scott (for the Australian Antarctic Division);
Contributor(s): David Gilbert (for Object Refinery Limited);

Changes:
--------
25-Sep-2002 : Version 1, contributed by Bryan Scott (DG);
27-Mar-2003 : Implemented Serializable (DG);
09-Sep-2003 : Added equals() method (DG);
08-Jun-2005 : Implemented Cloneable (DG);
22-Nov-2007 : Implemented hashCode() (DG);

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* Changes:
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* 09-Apr-2009 : Version 1 (DG);
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/event/OverlayChangeEvent.java
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Original Author: Peter Kolb;
Contributor(s): David Gilbert (for Object Refinery Limited);

Changes:
--------
21-Nov-2013 : Version 1, with modifications by DG (PK);

*/

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* Changes
* -----
* 03-Nov-2006 : Version 1 (DG);
* 08-Mar-2007 : Fix in hashCode() (DG);
* 17-Oct-2007 : Updated equals() (DG);
* 24-Oct-2007 : Added getAnchor() and setAnchor() methods (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

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*
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* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* -------
* 18-Oct-2001 : Version 1, thanks to Mark Watson (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc (DG);
* 06-May-2004 : Added methods that return double primitives (DG);
* 15-Sep-2009 : Added clarifications to API docs (DG);
*
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  * Original Author: Matthias Rose (based on XYAreaRenderer.java);
  * Contributor(s): David Gilbert (for Object Refinery Limited);
  * Lukasz Rzeszotarski;
  *
  * Changes:
  * -------
  * 07-Oct-2003 : Version 1, contributed by Matthias Rose (DG);
  * 10-Feb-2004 : Added some getter and setter methods (DG);
  * 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState. Renamed
  *    XYTooltipGenerator --> XYItemLabelGenerator (DG);
  * 15-Jul-2004 : Switched getX() with getXValue() and getY() with
  *    getYValue() (DG);
  * 11-Nov-2004 : Now uses ShapeUtilities to translate shapes (DG);
  * 06-Jul-2005 : Renamed get/setPlotShapes() --> get/setShapesVisible() (DG);
  * ------------- JFREECHART 1.0.x -------------------------------
  * 06-Jul-2006 : Modified to call dataset methods that return double
  *    primitives only (DG);
  * 06-Feb-2007 : Fixed bug 1086307, crosshairs with multiple axes (DG);
  * 14-Feb-2007 : Added equals() method override (DG);
  * 04-May-2007 : Set processVisibleItemsOnly flag to false (DG);
  * 14-May-2008 : Call addEntity() from within drawItem() (DG);
  * 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
  * 05-Dec-2013 : Added setStepPoint() method (LR);
  *
  */
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/renderer/xy/XYStepAreaRenderer.java
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 * Changes
 * -------
 * 04-Dec-2006 : Version 1 (DG);
 * 17-Jun-2009 : Added remove(int) method (DG);
 * 21-Nov-2013 : Added add(OHLCItem) method - feature request #385 (DG);
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 * Contributor(s): David Gilbert (for Object Refinery Limited);
 * Martin Hoeller (patches 1871902 and 2850344);
 * Changes
 * -------
 * 19-Jan-2004 : Version 1, contributed by DB with minor changes by DG (DG);
 * 07-Apr-2004 : Changed text bounds calculation (DG);
 * 05-May-2005 : Updated draw() method parameters (DG);
 * 09-Jun-2005 : Fixed getDataRange() and equals() methods (DG);
 * 25-Oct-2005 : Implemented Zoomable (DG);
 * JFREECHART 1.0.x ..........................
 * 07-Feb-2007 : Fixed bug 1599761, data value less than axis minimum (DG);
* 21-Mar-2007 : Fixed serialization bug (DG);
* 24-Sep-2007 : Implemented new zooming methods (DG);
* 17-Feb-2007 : Added angle tick unit attribute (see patch 1871902 by
  Martin Hoeller) (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
  Jess Thrysoee (DG);
* 03-Sep-2009 : Applied patch 2850344 by Martin Hoeller (DG);
* 27-Nov-2009 : Added support for multiple datasets, renderers and axes (DG);
* 09-Dec-2009 : Extended getLegendItems() to handle multiple datasets (DG);
* 25-Jun-2010 : Better support for multiple axes (MH);
* 03-Oct-2011 : Added support for angleOffset and direction (MH);
* 12-Nov-2011 : Fixed bug 3432721, log-axis doesn't work (MH);
* 12-Dec-2011 : Added support for radiusMinorGridlinesVisible (MH);
* 02-Jul-2013 : Use ParamChecks (DG);
* 05-Jul-2013 : Fire change event from setRadiusMinorGridlinesVisible (DG);
*
*/

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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* -------
* 15-Nov-2001 : Version 1 (DG);
* 26-Jun-2003 : Now extends EventListener so we can use the EventListenerList
*               mechanism (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/general/SeriesChangeListener.java
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* -------
* 23-Jul-2003 : Version 1 (DG);
* 22-Feb-2005 : Now extends XYLineAndShapeRenderer (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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*
* Original Author: David M. O'Donnell;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes (from 23-Jan-2003)
* --------------------------
* 23-Jan-2003 : Added standard header (DG);
* 20-May-2003 : removed member vars numX and numY, which were never used (TM);
* 06-May-2004 : Now extends AbstractXYZDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue(), getY() with getYValue() and
*               getZ() with getZValue() methods (DG);
* ------------- JFREECHART 1.0.x --------------------------------------------
* 31-Jan-2007 : Deprecated (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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 * Contributor(s):   -;
 *
 * Changes
 * -------
 * 23-Jan-2003 : Version 1 (DG);
 *
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/data/xml/ItemHandler.java

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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;
*
* Changes
* -------
* 05-Sep-2006 : Version 1 (DG);
*
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Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
* jar/org/jfree/chart/event/MarkerChangeEvent.java
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Nicolas Brodu;
*
* Changes:
* ---------
* 16-May-2003 : Version 1 (DG);
* 08-Aug-2003 : Adjusted totalWeight in remove() method (DG);
* 19-Aug-2003 : Added equals() method, implemented Cloneable and
  *    Serializable (DG);
* 11-Sep-2003 : Fix cloning support (subplots) (NB);
* 15-Sep-2003 : Implemented PublicCloneable (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 17-Sep-2003 : Updated handling of 'clicks' (DG);
* 04-May-2004 : Added getter/setter methods for 'gap' attribute (DG);
* 12-Nov-2004 : Implemented the Zoomable interface (DG);
* 25-Nov-2004 : Small update to clone() implementation (DG);
* 21-Feb-2005 : The getLegendItems() method now returns the fixed legend
  *    items if set (DG);
* 05-May-2005 : Updated draw() method parameters (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 13-Sep-2006 : Updated API docs (DG);
* 30-Oct-2006 : Added new getCategoriesForAxis() override (DG);
* 17-Apr-2007 : Added null argument checks to findSubplot() (DG);
* 14-Nov-2007 : Updated setFixedRangeAxisSpaceForSubplots() method (DG);
* 27-Mar-2008 : Add documentation for getDataRange() method (DG);
* 31-Mar-2008 : Updated getSubplots() to return EMPTY_LIST for null
  *    subplots, as suggested by Richard West (DG);
* 28-Apr-2008 : Fixed zooming problem (see bug 1950037) (DG);
* 26-Jun-2008 : Fixed crosshair support (DG);
* 11-Aug-2008 : Don't store totalWeight of subplots, calculate it as
  *    required (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/plot/CombinedDomainCategoryPlot.java
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---------------
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---------------

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Original Author:  David M. O'Donnell;
Contributor(s):  David Gilbert (for Object Refinery Limited);

Changes
-------
26-Nov-2002 : Version 1 contributed by David M. O'Donnell (DG);
26-Mar-2003 : Implemented Serializable (DG);
14-Aug-2003 : Implemented Cloneable (DG);
------------- JFREECHART 1.0.x ---------------------------------------------
31-Jan-2007 : Deprecated (DG);

Found in path(s):
/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/ColorPalette.java

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* Original Author: Richard Atkinson;
* Contributor(s): J?rgen Hoffman;
* David Gilbert (for Object Refinery Limited);
* Douglas Clayton;
*
* Changes
* -------
* 19-Aug-2002 : Version 1;
* 20-Apr-2003 : Added additional sendTempFile method to allow MIME type
* specification and modified original sendTempFile method to
* automatically set MIME type for JPEG and PNG files
* 23-Jun-2003 : Added additional sendTempFile method at the request of
* J?rgen Hoffman;
* 07-Jul-2003 : Added more header information to streamed images;
* 19-Aug-2003 : Forced images to be stored in the temporary directory defined
* by System property java.io.tmpdir, rather than default (RA);
* 24-Mar-2004 : Added temp filename prefix attribute (DG);
* 09-Mar-2005 : Added "one time" file option (DG);
* JFREECHART 1.0.x RELEASED -------------------------------
* 10-Jan-2006 : Updated API docs and reformatted (DG);
* 13-Sep-2006 : Format date in response header in English, not locale default
* (see bug 1557141) (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/servlet/ServletUtilities.java
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 * 28-Feb-2014 : Version 1 (DG);
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 *
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 *
 * Changes
 * ------
 * 03-Feb-2003 : Version 1 (DG);
 * 25-Feb-2004 : Renamed XYZToolTipGenerator --> XYZItemLabelGenerator (DG);
 * 11-May-2004 : Reverted to XYZToolTipGenerator (DG);
 *
 */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/CenterTextMode.java
jar/org/jfree/chart/labels/XYZToolTipGenerator.java

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* *
* Original Author: David Gilbert (for Object Refinery Limited);
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* Changes:
* -----------
* 02-Aug-2007 : Version 1 (DG);
* *
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* Changes:
* --------
* 01-Aug-2013 : Version 1, backported from JFreeChart-FSE (DG);
* 18-Mar-2014 : Added getTextBounds() method (DG);
* *
*/

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* *
* Changes
* -------
* 17-Nov-2001 : Version 1 (DG);
* 28-Mar-2002 : Implemented SeriesChangeListener interface (DG);
* 04-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 04-Feb-2003 : Removed redundant methods (DG);
* 27-Mar-2003 : Implemented Serializable (DG);
* *
* /*

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* 19-Dec-2001: Added new constructors as suggested by Paul English (DG);
* 26-Feb-2002: Added new getStart() and getEnd() methods (DG);
* 29-Mar-2002: Fixed bug in getStart(), getEnd() and compareTo() methods (DG);
* 10-Sep-2002: Added getSerialIndex() method (DG);
* 07-Oct-2002: Fixed errors reported by Checkstyle (DG);
* 10-Jan-2003: Changed base class and method names (DG);
* 13-Mar-2003: Moved to com.jrefinery.data.time package and implemented
* Serializable (DG);
* 21-Oct-2003: Added hashCode() method (DG);
* 05-Oct-2006: Updated API docs (DG);
* 06-Oct-2006: Refactored to cache first and last millisecond values (DG);
* 04-Apr-2007 : In Millisecond(Date, TimeZone), peg milliseconds to the
* specified zone (DG);
* 06-Jun-2008 : Added handling for general RegularTimePeriod in compareTo()
* method:
* see http://www.jfree.org/phpBB2/viewtopic.php?t=24805 (DG);
* 16-Sep-2008 : Deprecated DEFAULT_TIME_ZONE (DG);
* 02-Mar-2009 : Added new constructor with Locale (DG);
* 05-Jul-2012 : Replaced getTime().getTime() with getTimeInMillis() (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/data/time/Millisecond.java
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* Original Author: Peter Kolb (patch 2809117);
* Contributor(s): ;
*
* Changes:
* -------
* 20-Jun-2009 : Version 1 (PK);
* *
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/event/AnnotationChangeEvent.java

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  * Original Author:  David Gilbert (for Object Refinery Limited);
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  * Changes
* -------
* 24-Nov-2005 : Version 1 (DG);
*
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 * Changes
 * -------
 * 20-Nov-2002 : Version 1 (DG);
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/xml/DatasetReader.java

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 *
 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  -;
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 * Changes
 * -------
 * 09-May-2008 : Version 1 (DG);
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 * Original Author:  David Forslund;
 * Contributor(s):  David Gilbert (for Object Refinery Limited);
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 * Changes
 * ------
 * 08-Oct-2007 : Version 1, see patch 1780779 (DG);
 * 06-Nov-2007 : Return EMPTY_LIST not null from getValues() (DG);
 * 02-JUL-2013 : Use ParamChecks (DG);
 *
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 * Original Author:  Jeremy Bowman;
 * Contributor(s):  David Gilbert (for Object Refinery Limited);
 *                 Christian W. Zuckschwerdt;
 *                 Peter Kolb (patch 2497611, 2791407);
 *
 * Changes
 * ------
 * 29-Apr-2002 : Version 1, contributed by Jeremy Bowman (DG);
 * 11-May-2002 : Use CategoryPlot.getLabelsVisible() (JB);
 * 29-May-2002 : Added constructors (DG);
 * 26-Jun-2002 : Added axis to initialise method (DG);
 * 20-Sep-2002 : Added basic support for chart entities (DG);
 * 24-Oct-2002 : Amendments for changes in CategoryDataset interface and
 *                 CategoryToolTipGenerator interface (DG);
* 05-Nov-2002 : Base dataset is now TableDataset not CategoryDataset (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 19-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* 08-Sep-2003 : Added checks for null values (DG);
* 07-Oct-2003 : Added renderer state (DG);
* 21-Oct-2003 : Bar width moved into renderer state (DG);
* 23-Dec-2003 : Removed the deprecated MultiIntervalCategoryDataset
* interface (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 20-Apr-2005 : Renamed CategoryLabelGenerator
* --> CategoryItemLabelGenerator (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 24-Jun-2008 : Added new barPainter mechanism (DG);
* 07-Oct-2008 : Override equals() method to fix minor bug (DG);
* 14-Jan-2009 : Added support for seriesVisible flags (PK);
* 16-May-2009 : The findRangeBounds() method needs to include the dataset
* interval (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
* 30-Oct-2011 : Fixed alignment when setMaximumBarWidth is applied (DG);
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Changes
* -------
* 07-Feb-2002 : Version 1 (DG);
* 24-Sep-2002 : Added get(int) and getItemCount() methods (DG);
* 02-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 18-Apr-2005 : Added equals() method and implemented Cloneable and
*                Serializable (DG);
* 23-Apr-2008 : Fixed clone() method (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Changes:
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* Changes:
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* 28-Sep-2013 : Version 1 (RW);
* 
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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Original Author: Sergei Ivanov;
Contributor(s): David Gilbert (for Object Refinery Limited);

Changes
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26-Sep-2007 : Version 1, contributed by Sergei Ivanov (see patch
1772932) (DG);

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* Changes:
* --------
* 30-Apr-2004 : Version 1 (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*    getYValue() (DG);
* 10-Sep-2004 : Removed getRangeType() method (DG);
* 06-Jan-2004 : Renamed getRangeExtent() --> findRangeBounds (DG);
* 28-Mar-2005 : Use getXValue() and getYValue() from dataset (DG);
* 03-Oct-2005 : Add entity generation to drawItem() method (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 22-Aug-2006 : Handle null and empty datasets correctly in the
*    findRangeBounds() method (DG);
* 22-Sep-2006 : Added a flag to allow rounding of x-coordinates (after
*    translation to Java2D space) in order to avoid the striping
*    that can result from anti-aliasing (thanks to Doug
*    Clayton) (DG);
* 30-Nov-2006 : Added accessor methods for the roundXCoordinates flag (DG);
* 02-Jun-2008 : Fixed bug with PlotOrientation.HORIZONTAL (DG);
* *
* /

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* Changes (from 24-Aug-2001)
* --------------
* 24-Aug-2001 : Added standard source header. Fixed DOS encoding problem (DG);
* 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
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* Changes
* -------
* 03-Nov-2006 : Version 1 (DG);
* 17-Oct-2007 : Updated equals() (DG);
* 24-Oct-2007 : Added default constructor and missing event notification (DG);
* 09-Jun-2009 : Improved indicator resizing, fixes bug 2802014 (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

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* Changes
* ------
* 29-Apr-2002 : Version 1, contributed by Jeremy Bowman (DG);
* 24-Oct-2002 : Amendments for changes made to the dataset interface (DG);
* ---------------- JFREECHART 1.0.x -----------------------------
* 08-Mar-2007 : Added equals() and clone() overrides (DG);
* 25-Feb-2008 : Fix for the special case where the dataset is empty, see bug 1897580 (DG)
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by Jess Thrysoee (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1.0-19-sources.jar/org/jfree/data/category/DefaultIntervalCategoryDataset.java

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* *
* Changes
* -------
* 11-May-2004 : Version 1 (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------
* 03-May-2006 : Added equals() method to fix bug 1481087 (DG);
* *
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*
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* Changes:
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* 10-Mar-2009 : Version 1 (DG);
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
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* Changes
* -------
* 02-Feb-2007 : Version 1 (DG);
* 03-Sep-2008 : Moved from experimental to main (DG);
*
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* Changes
* -------
* 16-Jan-2003 : Version 1 (DG);
* 17-Jan-2003 : Added stroke method, renamed DefaultPaintSupplier
*                --> DefaultDrawingSupplier (DG)
* 27-Jan-2003 : Incorporated code from SeriesShapeFactory, originally
*                contributed by Jeremy Bowman (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* ------------ JFREECHART 1.0.x ---------------------------------------------
* 13-Jun-2007 : Added fillPaintSequence (DG);
*
*/

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* 30-Jun-2014 : Version 1 (DG);
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--------------
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Changes
-------
21-Jan-2003 : Added standard header (DG);
------------- JFREECHART 1.0.x ---------------------------------------------
31-Jan-2007 : Deprecated (DG);

*/

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* Original Author:  Bryan Scott (based on MeterPlot by Hari).
* Contributor(s):   David Gilbert (for Object Refinery Limited).
*                   Arnaud Lelievre;
*                   Julien Henry (see patch 1769088) (DG);
* 
* Changes
* -------
* 11-Apr-2002 : Version 1, contributed by Bryan Scott;
* 15-Apr-2002 : Changed to implement VerticalValuePlot;
* 29-Apr-2002 : Added getVerticalValueAxis() method (DG);
* 25-Jun-2002 : Removed redundant imports (DG);
* 17-Sep-2002 : Reviewed with Checkstyle utility (DG);
* 18-Sep-2002 : Extensive changes made to API, to iron out bugs and
*               inconsistencies (DG);
* 13-Oct-2002 : Corrected error datasetChanged which would generate exceptions
*               when value set to null (BRS).
* 23-Jan-2003 : Removed one constructor (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 02-Jun-2003 : Removed test for compatible range axis (DG);
* 01-Jul-2003 : Added additional check in draw method to ensure value not
*               null (BRS);
* 08-Sep-2003 : Added internationalization via use of properties
*               resourceBundle (RFE 690236) (AL);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 29-Sep-2003 : Updated draw to set value of cursor to non-zero and allow
*               painting of axis. An incomplete fix and needs to be set for
*               left or right drawing (BRS);
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* 19-Nov-2003 : Added support for value labels to be displayed left of the thermometer
* 19-Nov-2003 : Improved axis drawing (now default axis does not draw axis line and is closer to the bulb). Added support for the positioning of the axis to the left or right of the bulb. (BRS);
* 03-Dec-2003 : Directly mapped deprecated setData()/getData() method to get/setDataset() (TM);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 07-Apr-2004 : Changed string width calculation (DG);
* 12-Nov-2004 : Implemented the new Zoomable interface (DG);
* 06-Jan-2004 : Added getOrientation() method (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
* 29-Mar-2005 : Fixed equals() method (DG);
* 05-May-2005 : Updated draw() method parameters (DG);
* 09-Jun-2005 : Fixed more bugs in equals() method (DG);
* 10-Jun-2005 : Fixed minor bug in setDisplayRange() method (DG);
* ------------- JFREECHART 1.0.x -------------------------------
* 14-Nov-2006 : Fixed margin when drawing (DG);
* 03-May-2007 : Fixed datasetChanged() to handle null dataset, added null argument check and event notification to setRangeAxis(), added null argument check to setPadding(), setValueFont(), setValuePaint(), setValueFormat() and setMercuryPaint(), deprecated get/setShowValueLines(), deprecated getMinimum/MaximumVerticalDataValue(), and fixed serialization bug (DG);
* 24-Sep-2007 : Implemented new methods in Zoomable interface (DG);
* 08-Oct-2007 : Added attributes for thermometer dimensions - see patch 1769088 by Julien Henry (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by Jess Thrysoee (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* */

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* Changes:
* *******
* 25-Sep-2002: Version 1, contributed by Bryan Scott (DG);
* 27-Mar-2003: Implemented Serializable (DG);
* 09-Sep-2003: Added equals() method (DG);
* 08-Jun-2005: Implemented Cloneable (DG);
* 22-Nov-2007: Added hashCode() implementation (DG);
*
*/

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-------------------
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Original Author: Roger Studner;
Contributor(s): David Gilbert (for Object Refinery Limited);
               Matthias Rose;
               Gerald Struck (fix for bug 1569094);
               Ulrich Voigt (patch 1874890);
               Martin Hoeller (contribution to patch 1874890);

Changes
-------
13-May-2002 : Version 1, contributed by Roger Studner (DG);
25-Jun-2002 : Updated import statements (DG);
22-Jul-2002 : Added check for null data items (DG);
25-Mar-2003 : Implemented Serializable (DG);
01-May-2003 : Modified drawItem() method signature (DG);
20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
28-Oct-2003 : Added tooltips, code contributed by Matthias Rose (RFE 824857) (DG);
10-Feb-2004 : Removed working line (use line from state object instead) (DG);
25-Feb-2004 : Replaced CrosshairInfo with CrosshairState. Renamed XYToolTipGenerator --> XYItemLabelGenerator (DG);
19-Jan-2005 : Now accesses only primitives from dataset (DG);
15-Mar-2005 : Fix silly bug in drawItem() method (DG);
19-Sep-2005 : Extend XYLineAndShapeRenderer (fixes legend shapes), added
* support for series visibility, and use getDefaultEntityRadius()
* for entity hotspot size (DG);
* ------------------ JFREECHART 1.0.x ---------------------------------------------
* 15-Jun-2006 : Added basic support for item labels (DG);
* 11-Oct-2006 : Fixed rendering with horizontal orientation (see bug 1569094),
*    thanks to Gerald Struck (DG);
* 06-Feb-2007 : Fixed bug 1086307, crosshairs with multiple axes (DG);
* 14-Feb-2008 : Applied patch 1874890 by Ulrich Voigt (with contribution from
*    Martin Hoeller) (DG);
* 14-May-2008 : Call addEntity() in drawItem() (DG);
* 24-Sep-2008 : Fixed bug 2113627 by utilising second pass to draw item
*    labels (DG);
* */

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* Changes
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* 09-Jan-2009 : Version 1 (DG);
* 
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* Changes
* -------
* 27-Feb-2004 : Version 1 (DG);
* 12-May-2004 : Moved default tool tip format to
*                StandardXYToolTipGenerator (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*                getYValue() (DG);
* 08-Oct-2004 : Modified createItemArray() method to handle null values (DG);
* 10-Jan-2005 : Updated createItemArray() to use x, y primitives if
*                possible (DG);
* ------------- JFREECHART 1.0.x --------------------------------------------
* 26-Jan-2006 : Minor API doc update (DG);
* 25-Jan-2007 : Added new constructor and fixed bug in clone() method (DG);
* 16-Oct-2007 : Removed redundant code (DG);
* 23-Nov-2007 : Implemented hashCode() (DG);
* 26-May-2008 : Added accessor methods for nullYString and updated equals()
*                method (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* 
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* RegularTimePeriod.java

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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;

* Changes

* 11-Oct-2001 : Version 1 (DG);
* 26-Feb-2002 : Changed getStart(), getMiddle() and getEnd() methods to evaluate with reference to a particular time zone (DG);
* 29-May-2002 : Implemented MonthConstants interface, so that these constants are conveniently available (DG);
* 10-Sep-2002 : Added getSerialIndex() method (DG);
* 10-Jan-2003 : Renamed TimePeriod --> RegularTimePeriod (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package (DG);
* 29-Apr-2004 : Changed getMiddleMillisecond() methods to fix bug 943985 (DG);
* 25-Nov-2004 : Added utility methods (DG);

* JFREECHART 1.0.x ---------------------------------------------
* 06-Oct-2006 : Deprecated the WORKING CALENDAR field and several methods, added new peg() method (DG);
* 16-Sep-2008 : Deprecated DEFAULT_TIME_ZONE (DG);
* 23-Feb-2014 : Added getMillisSecond() method (DG);

* /

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/time/RegularTimePeriod.java

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* ContourPlot.java
* ------------
*
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*
* Original Author: David M. O'Donnell;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Arnaud Lelievre;
* Nicolas Brodu;
*
* Changes
* -------
* 26-Nov-2002: Version 1 contributed by David M. O'Donnell (DG);
* 14-Jan-2003: Added crosshair attributes (DG);
* 23-Jan-2003: Removed two constructors (DG);
* 21-Mar-2003: Bug fix 701744 (DG);
* 26-Mar-2003: Implemented Serializable (DG);
* 09-Jul-2003: Changed ColorBar from extending axis classes to enclosing
* them (DG);
* 05-Aug-2003: Applied changes in bug report 780298 (DG);
* 08-Sep-2003: Added internationalization via use of properties
* resourceBundle (RFE 690236) (AL);
* 11-Sep-2003: Cloning support (NB);
* 16-Sep-2003: Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 17-Jan-2004: Removed references to DefaultContourDataset class, replaced
* with ContourDataset interface (with changes to the interface).
* See bug 741048 (DG);
* 21-Jan-2004: Update for renamed method in ValueAxis (DG);
* 25-Feb-2004: Replaced CrosshairInfo with CrosshairState (DG);
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/ContourPlot.java
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* AxisSpace.java
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* ------
* 03-Jul-2003 : Version 1 (DG);
* 14-Aug-2003 : Implemented Cloneable (DG);
* 18-Aug-2003 : Implemented Serializable (DG);
* 17-Mar-2004 : Added a toString() method for debugging (DG);
* 07-Jan-2005 : Updated equals() method (DG);
* 11-Jan-2005 : Removed deprecated methods in preparation for 1.0.0
* release (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* -----------------
* JThermometer.java
* -----------------
* A plot that displays a single value in a thermometer type display.
*
* (C) Copyright 2000-2008, Australian Antarctic Division and Contributors.
*
* Original Author:  Bryan Scott.
* Contributor(s):  David Gilbert (for Object Refinery Limited);
*                 Irv Thomae;
*
* Changes (from 17-Sep-2002)
* --------------------------
* 17-Sep-2002 : Reviewed with Checkstyle utility (DG);
* 18-Sep-2003 : Integrated new methods contributed by Irv Thomae (DG);
* 08-Jan-2004 : Renamed AbstractTitle --> Title and moved to new package (DG);
* 31-May-2005 : Fixed typo in method name (DG);
*
*/

Found in path(s):
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*  XYDotRenderer.java
*  ------------------
*  (C) Copyright 2002-2014, by Object Refinery Limited.

* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Christian W. Zuckschwerdt;

*  Changes (from 29-Oct-2002)
  --------------------------
*  29-Oct-2002: Added standard header (DG);
*  25-Mar-2003: Implemented Serializable (DG);
*  01-May-2003: Modified drawItem() method signature (DG);
*  30-Jul-2003: Modified entity constructor (CZ);
*  20-Aug-2003: Implemented Cloneable and PublicCloneable (DG);
*  16-Sep-2003: Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
*  25-Feb-2004: Replaced CrosshairInfo with CrosshairState (DG);
*  19-Jan-2005: Now uses only primitives from dataset (DG);
  *  JFREECHART 1.0.x ---------------------------------------------
*  10-Jul-2006: Added dotWidth and dotHeight attributes (DG);
*  06-Feb-2007: Fixed bug 1086307, crosshairs with multiple axes (DG);
*  09-Nov-2007: Added legend shape attribute, plus override for
  *     getLegendItem() (DG);
  *  17-Jun-2008: Apply legend shape, font and paint attributes (DG);
*  03-Jul-2013: Use ParamChecks (DG);

*  */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/renderer/xy/XYDotRenderer.java
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* AnnotationChangeListener.java
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* (C) Copyright 2009, by Object Refinery Limited and Contributors.
*
* Original Author: Peter Kolb (patch 2809117);
* Contributor(s): ;
*
* Changes:
* _______
* 20-Jun-2009 : Version 1 (PK);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* ---------------
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* 
* Original Author: David M. O'Donnell;
* Contributor(s):  David Gilbert (for Object Refinery Limited);
* 
* Changes
* ------
* 26-Nov-2002 : Version 1 contributed by David M. O'Donnell (DG);
* 
*/

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* ----------------------------
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*
* Original Author: Eduard Martinescu;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* ------
* 19-Mar-2002 : Version 1 contributed by Eduard Martinescu. The interface
*     name and method names have been renamed to be consistent with
*     existing interfaces (DG);
* 06-Jun-2002 : Updated Javadoc comments (DG);
* 24-Oct-2002 : Categories and series are now indexed by int or Comparable,
*     following changes made to the CategoryDataset interface (DG);
* 12-May-2008 : Updated API docs (DG);
*
*/

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GridArrangement.java

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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): -;

Changes:
--------
08-Feb-2005 : Version 1 (DG);
03-Dec-2008 : Implemented missing methods, and fixed bugs reported in
patch 2370487 (DG);

*/

Found in path(s):
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* BoxAndWhiskerCategoryDataset.java
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*
* Original Author: David Browning (for Australian Institute of Marine
* Science);
* Contributor(s): -;
*
* Changes
* -------
* 05-Aug-2003 : Version 1, contributed by David Browning (DG);
* 27-Aug-2003 : Renamed getAverageValue --> getMeanValue, changed
*               getAllOutliers to return a List rather than an array (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* *
*/

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* Changes
* -------
* 17-Sep-2008 : Version 1 (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* 
*/

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---------------------------
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---------------------------
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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): Peter Kolb (patch 2809117);

Changes:
--------
02-Apr-2003 : Version 1 (DG);
02-Jul-2003 : Added new text alignment and rotation options (DG);
04-Jul-2003 : Added a category anchor option (DG);
19-Aug-2003 : Added equals() method and implemented Cloneable (DG);
21-Jan-2004 : Update for renamed method in ValueAxis (DG);
30-Sep-2004 : Moved drawRotatedString() from RefineryUtilities --> TextUtilities (DG);

---------- JFREECHART 1.0.x -------------------------------------------
06-Mar-2007 : Implemented hashCode() (DG);
23-Apr-2008 : Implemented PublicCloneable (DG);
24-Jun-2009 : Fire change events (see patch 2809117 by PK) (DG);
02-Jul-2013 : Use ParamChecks (DG);

*/

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* Changes:
* -------
* 02-Apr-2003: Version 1 (DG);
* 02-Jul-2003: Eliminated Annotation base interface (DG);
* 24-Jun-2009: Now extends Annotation (see patch 2809117 by PK) (DG);
*
* */

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* Contributor(s):  Chuanhao Chiu;
*                  Bill Kelemen;
*                  Nicolas Brodu;
*                  Sergei Ivanov;
*
* Changes (from 23-Jun-2001)
* --------------------------
* 22-Apr-2002 : Version 1, loosely based by code by Bill Kelemen (DG);
* 30-Apr-2002 : Added getLength() and getCentralValue() methods. Changed
*               argument check in constructor (DG);
* 13-Jun-2002 : Added contains(double) method (DG);
* 22-Aug-2002 : Added fix to combine method where both ranges are null, thanks
*               to Chuanhao Chiu for reporting and fixing this (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 14-Aug-2003 : Added equals() method (DG);
* 27-Aug-2003 : Added toString() method (BK);
* 11-Sep-2003 : Added Clone Support (NB);
* 23-Sep-2003 : Fixed Checkstyle issues (DG);
* 25-Sep-2003 : Oops, Range immutable, clone not necessary (NB);
* 05-May-2004 : Added constrain() and intersects() methods (DG);
* 18-May-2004 : Added expand() method (DG);
* -------------- JFreeChart 1.0.x -----------------------------------------
* 11-Jan-2006 : Added new method expandToInclude(Range, double) (DG);
* 18-Dec-2007 : New methods intersects(Range) and scale(...) thanks to Sergei
*        Ivanov (DG);
* 08-Jan-2012 : New method combineIgnoringNaN() (DG);
* 23-Feb-2014 : Added isNaNRange() method (DG);
* /

Found in path(s):
* /opt/cola/permits/1001218797_165402912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/Range.java
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* 
* Changes
* -------
* 19-Nov-2004 : Version 1 (DG);
* 18-Apr-2005 : Use StringBuffer (DG);
* 20-Feb-2007 : Fixed for equals() and cloning() (DG);
* 31-Mar-2008 : Added hashCode() method to appease FindBugs (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* 
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;

* Changes
* -------
* 03-Nov-2006 : Version 1 (DG);
* 17-Oct-2007 : Updated equals() method (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/plot/dial/DialCap.java

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* Changes (from 18-Sep-2001)
* --------------------------
* 18-Sep-2001 : Added standard header and fixed DOS encoding problem (DG);
* 15-Oct-2001 : Moved to a new package (com.jrefinery.data.*) (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* 17-Nov-2001 : Now extends SeriesDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
* getYValue() (DG);
* 29-Jul-2004 : Added getDomainOrder() method (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.xy (DG);
* *
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/data/xy/XYDataset.java
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*
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes:
* --------
* 19-Jun-2008 : Version 1 (DG);
* 15-Aug-2008 : Use outline paint and shadow paint (DG);
* 17-Sep-2013 : Fix coordinate error in gradient (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/renderer/category/GradientBarPainter.java
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* Contributor(s): David Gilbert (for Object Refinery Limited);
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*                  Matthias Rose;
* 
* Changes 
* -------
* 24-Jan-2003 : Version 1, contributed by Paolo Cova (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 01-May-2003 : Modified drawItem() method signature (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 07-Oct-2003 : Added renderer state (DG);
* 03-Nov-2003 : In draw method added state parameter and y==null value handling (MR);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with getYValue() (DG);
* 01-Oct-2004 : Fixed bug where 'drawBarOutline' flag is ignored (DG);
* 16-May-2005 : Fixed to used outline stroke for bar outlines. Removed some redundant code with the result that the renderer now respects the 'base' setting from the super-class. Added an equals() method (DG);
* 19-May-2005 : Added minimal item label implementation - needs improving (DG);
* ----------------- JFREECHART 1.0.x -------------------------------
* 11-Dec-2006 : Added support for GradientPaint (DG);
* 12-Jun-2007 : Added override to findDomainBounds() to handle cluster offset, fixed rendering to handle inverted axes, and simplified entity generation code (DG);
* 24-Jun-2008 : Added new barPainter mechanism (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/renderer/xy/ClusteredXYBarRenderer.java
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* Original Author:  David Gilbert (for Object Refinery Limited);
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* Changes
* -------
* 30-Jan-2007 : Version 1 (DG);
* 24-May-2007 : Added getVector(), renamed getDeltaX() --> getVectorX(),
* and likewise for getDeltaY() (DG);
* 25-May-2007 : Moved from experimental to the main source tree (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/xy/VectorDataItem.java
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* Contributor(s):  Chris Boek;
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* Changes
*  -------
* 08-Nov-2002 : Moved to new package com.jrefinery.chart.axis (DG);
* 27-Nov-2002 : Added IllegalArgumentException to getMillisecondCount()
*       method (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 12-Nov-2003 : Added roll fields that can improve the labelling on segmented
*       date axes (DG);
* 03-Dec-2003 : DateFormat constructor argument is now filled with an default
*       if null (TM);
* 07-Dec-2003 : Fixed bug (null pointer exception) in constructor (DG);
* 21-Mar-2007 : Added toString() for debugging (DG);
* 04-Apr-2007 : Added new methods addToDate(Date, TimeZone) and rollDate(Date,
*       TimeZone) (CB);
* 09-Jun-2008 : Deprecated addToDate(Date) (DG);
* 09-Jan-2009 : Replaced the unit and rollUnit fields with an enumerated
*       type (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/axis/DateTickUnit.java

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 * Contributor(s):   David Gilbert (for Object Refinery Limited);
 *                   Thomas Morgner;
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 * Changes
 * ------
 * 26-Apr-2002 : Creation based on JdbcXYDataSet, using code contributed from
 * Andy;
 * 13-Aug-2002 : Updated Javadocs, import statements and formatting (DG);
DialShape.java

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Changes:
-------
20-Aug-2003 : Version 1 (DG);
12-Nov-2007 : Implemented hashCode() (DG);
*/

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LegendGraphic.java

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Changes
-------
26-Oct-2004 : Version 1 (DG);
21-Jan-2005 : Modified return type of RectangleAnchor.coordinates() method (DG);
20-Apr-2005 : Added new draw() method (DG);
13-May-2005 : Fixed to respect margin, border and padding settings (DG);
01-Sep-2005 : Implemented PublicCloneable (DG);
------------- JFREECHART 1.0.x ---------------------------------------------
13-Dec-2006 : Added fillPaintTransformer attribute, so legend graphics can
display gradient paint correctly, updated equals() and
corrected clone() (DG);
01-Aug-2007 : Updated API docs (DG);
03-Jul-2013 : Use ParamChecks (DG);

/

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 * 
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 * Changes
 * -------
 * 01-Aug-2004 : Initial version (RA);
 * 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
 * 
 */

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* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* -----
* 25-Nov-2003 : Version 1 contributed by Robert Redburn (DG);
* 05-May-2005 : Updated draw() method parameters (DG);
* 10-Jun-2005 : Changed private --> protected for drawChipGrid(),
*               drawWaferEdge() and getWaferEdge() (DG);
* 16-Jun-2005 : Added default constructor and setDataset() method (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
*               Jess Thrysoee (DG);
*
*/

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* Changes
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* 07-Nov-2003 : Version 1 (DG);
* 02-Aug-2007 : Added new constructor with tick type (DG);
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*  *                  Center);
*  *
*  * Changes:
*  * -------
*  * 25-Sep-2002 : Version 1, contributed by Bryan Scott (DG);
*  * 07-Nov-2002 : Fixed errors reported by Checkstyle (DG);
*  * 01-Sep-2003 : Implemented Serialization (NB);
*  * 16-Mar-2004 : Changed transform from private to protected (BRS);
*  * 08-Jun-2005 : Fixed equals() method to handle GradientPaint (DG);
*  * 22-Nov-2007 : Implemented hashCode() (DG);
*  *
* /

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/needle/MeterNeedle.java
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* 
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* 
* Changes
* -------
* 23-Jan-2003 : Version 1 (DG);
* 
* */

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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Arnaud Lelievre;
* Daniel Gredler;
*
* Changes
* -------
* 24-Nov-2005 : New class, based on ChartPropertyEditPanel.java (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
* Jess Thrysoe (DG);
*
*/*

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*
* Changes:
* --------
* 22-Oct-2004 : Version 1 (DG);
* 04-Feb-2005 : Added equals() and implemented Serializable (DG);
*
*
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* _______________________
* URLTagFragmentGenerator.java
* _______________________
*
* Original Author: Richard Atkinson;
 *
* Changes
* ------
* 12-Aug-2003 : Version 1 (RA);
* 13-Dec-2007 : Updated API docs (DG);
*
*/

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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Aaron Metzger;
*
* Changes
* -------
* 15-Nov-2001 : Version 1 (DG);
* 03-Apr-2002 : Added change listener code (DG);
* 29-Apr-2002 : Added removeSeries, removeAllSeries methods (ARM);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 04-Aug-2003 : Added getSeries() method (DG);
* 31-Mar-2004 : Modified to use an XYIntervalDelegate.
* 05-May-2004 : Now extends AbstractIntervalXYDataset (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.xy (DG);
* 17-Nov-2004 : Updated for changes to DomainInfo interface (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
* 28-Mar-2005 : Fixed bug in getSeries(int) method (1170825) (DG);
* 05-Oct-2005 : Made the interval delegate a dataset listener (DG);
* 10-Jun-2009 : Overridden getDomainOrder() to detect when all series are
*    sorted in ascending order (DG);
* 06-Mar-2009 : Implemented RangeInfo (DG);
* 06-Mar-2009 : Fixed equals() implementation (DG);
* 10-Jun-2009 : Simplified code in getX() and getY() methods (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 21-Nov-2013 : Fixed bug where removeSeries(int) was not deregistering
*    vetoable listener (DG);
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/xy/XYSeriesCollection.java

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 * Changes:
 * ---------
 * 21-May-2003 : Version 1 (DG);
 * 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
 * 30-Sep-2004 : Added support for tool tips and URLs (DG);
 * 18-Jun-2008 : Added scaling factor (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/annotations/XYDrawableAnnotation.java
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    * Original Author: David Gilbert (for Object Refinery Limited);
    * Contributor(s): Eric Penfold (patch 2006826);
    *
    * Changes
    * ------
    * 19-Nov-2004 : Version 1 (DG);
    * 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
    * 04-Feb-2005 : Implemented MAXIMUM_WIDTH in calculateSize (DG);
* 20-Apr-2005 : Added new draw() method (DG);
* 03-May-2005 : Implemented equals() method (DG);
* 02-Jul-2008 : Applied patch 2006826 by Eric Penfold, to enable chart
  entities to be generated (DG);
* 09-Jul-2008 : Added backgroundPaint field (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
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 */
* Changes (from 24-Aug-2001)
* ________________________
* 24-Aug-2001 : Added standard source header. Fixed DOS encoding problem (DG);
* 07-Nov-2001 : Updated header (DG);
* 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 17-Jan-2003 : Moved plot classes to a separate package (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* *
* Original Author: Pascal Collet;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Changes
* --------
* 21-Aug-2002 : Version 1, contributed by Pascal Collet (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 05-Feb-2003 : Revised implementation to use KeyedObjects2D (DG);
* 28-Aug-2003 : Moved from org.jfree.data --> org.jfree.data.statistics (DG);
* 06-Oct-2003 : Removed incorrect Javadoc text (DG);
* 18-Nov-2004 : Updated for changes in RangeInfo interface (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
* release (DG);
* 01-Feb-2005 : Changed minimumRangeValue and maximumRangeValue from Double
* to double (DG);
* 05-Feb-2005 : Implemented equals() method (DG);
* 08-Aug-2006 : Reworked implementation of RangeInfo methods (DG);
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* 28-Sep-2007 : Fixed cloning bug (DG);
* 02-Oct-2007 : Fixed bug updating cached range values (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
* 20-Oct-2011 : Fixed getRangeBounds() bug 3072674 (DG);
* /

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  * 18-Feb-2005 : Version 1 (DG);
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02-Jul-2013: Use ParamChecks (DG);

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Changes

07-Dec-2001 : Version 1 (DG);
13-Mar-2003 : Moved to com.jrefinery.data.time package (DG);

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* 19-Apr-2005 : Version 1 (DG);
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  Peter Kolb (patches 1934255 and 2603321);

* Changes
* ------
* 18-Sep-2001 : Added standard header and fixed DOS encoding problem (DG);
* 22-Sep-2001 : Changed setMinimumAxisValue() and setMaximumAxisValue() so
  that they clear the autoRange flag (DG);
* 27-Nov-2001 : Removed old, redundant code (DG);
* 30-Nov-2001 : Added accessor methods for the standard tick units (DG);
* 08-Jan-2002 : Added setAxisRange() method (since renamed setRange()) (DG);
* 16-Jan-2002 : Added setTickUnit() method. Extended ValueAxis to support an
  optional cross-hair (DG);
* 08-Feb-2002 : Fixes bug to ensure the autorange is recalculated if the
  setAutoRangeIncludesZero flag is changed (DG);
* 25-Feb-2002 : Added a new flag autoRangeStickyZero to provide further
  control over margins in the auto-range mechanism. Updated
  constructors. Updated import statements. Moved the
  createStandardTickUnits() method to the TickUnits class (DG);
* 19-Apr-2002 : Updated Javadoc comments (DG);
* 01-May-2002 : Updated for changes to TickUnit class, removed valueToString()
  method (DG);
* 25-Jul-2002 : Moved the lower and upper margin attributes, and the
  auto-range minimum size, up one level to the ValueAxis
  class (DG);
* 05-Sep-2002 : Updated constructor to match changes in Axis class (DG);
* 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 04-Oct-2002 : Moved standardTickUnits from NumberAxis --> ValueAxis (DG);
* 24-Oct-2002 : Added a number format override (DG);
* 08-Nov-2002 : Moved to new package com.jrefinery.chart.axis (DG);
* 19-Nov-2002 : Removed grid settings (now controlled by the plot) (DG);
* 14-Jan-2003 : Changed autoRangeMinimumSize from Number --> double, and moved
  crosshair settings to the plot classes (DG);
* 20-Jan-2003 : Removed the monolithic constructor (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 16-Jul-2003 : Reworked to allow for multiple secondary axes (DG);
* 13-Aug-2003 : Implemented Cloneable (DG);
* 07-Oct-2003 : Fixed bug (815028) in the auto range calculation (DG);
* 29-Oct-2003 : Added workaround for font alignment in PDF output (DG);
* 07-Nov-2003 : Modified to use NumberTick class (DG);
* 21-Jan-2004 : Renamed translateJava2DToValue --> java2DToValue, and
  translateValueToJava2D --> valueToJava2D (DG);
* 03-Mar-2004 : Added plotState to draw() method (DG);
* 07-Apr-2004 : Changed string width calculation (DG);
* 11-Jan-2005 : Removed deprecated methods in preparation for 1.0.0
  release (DG);
* 28-Mar-2005: Renamed autoRangeIncludesZero() --> getAutoRangeIncludesZero()
* and autoRangeStickyZero() --> getAutoRangeStickyZero() (DG);
* 21-Apr-2005: Removed redundant argument from selectAutoTickUnit() (DG);
* 22-Apr-2005: Renamed refreshHorizontalTicks --> refreshTicksHorizontal
* (and likewise the vertical version) for consistency with
* other axis classes (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------
* 10-Feb-2006: Added some API doc comments in respect of bug 821046 (DG);
* 20-Feb-2006: Modified equals() method to check rangeType field (fixes bug
* 1435461) (DG);
* 04-Sep-2006: Fix auto range calculation for the case where all data values
* are constant and large (see bug report 1549218) (DG);
* 11-Dec-2006: Fix bug in auto-tick unit selection with tick format override,
* see bug 1608371 (DG);
* 22-Mar-2007: Use new defaultAutoRange attribute (DG);
* 25-Sep-2008: Added minor tick support, see patch 1934255 by Peter Kolb (DG);
* 21-Jan-2009: Default minor tick counts will now come from the tick unit
* collection (DG);
* 19-Mar-2009: Added entity support - see patch 2603321 by Peter Kolb (DG);
* 02-Jul-2013: Use ParamChecks (DG);
* 01-Aug-2013: Added attributedLabel override to support superscripts,
* subscripts and more (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/axis/NumberAxis.java
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* PlotChangeListener.java
* -----------------------
*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes (from 24-Aug-2001)
* --------------------------
* 24-Aug-2001: Added standard source header. Fixed DOS encoding problem (DG);
* 07-Nov-2001: Updated header (DG);
* 09-Oct-2002: Fixed errors reported by Checkstyle (DG);
* 14-Oct-2002: Now extends EventListener (DG);
*
*/

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*
* Original Author: David Gilbert (for Object Refinery Limited);
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*
* Changes
* -------
* 09-Mar-2005 : Version 1, copied from the demo collection that ships with
* the JFreeChart Developer Guide (DG);
*
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* jar/org/jfree/chart/demo/PieChartDemo1.java
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RangeInfo.java

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Changes (from 18-Sep-2001)
--------------------------
18-Sep-2001 : Added standard header and fixed DOS encoding problem (DG);
15-Nov-2001 : Moved to package com.jrefinery.data.* (DG);
               Updated Javadoc comments (DG);
22-Apr-2002 : Added getValueRange() method (DG);
17-Nov-2004 : Replaced getMinimumRangeValue() --> getRangeLowerBound(),
               getMaximumRangeValue() --> getRangeUpperBound(),
               getValueRange() --> getRangeBounds().
11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0 release (DG);

*/

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AbstractOverlay.java

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Changes:
--------
09-Apr-2009 : Version 1 (DG);
02-Jul-2013 : Use ParamChecks (DG);

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* Contributor(s): David Gilbert (for Object Refinery Limited);
*                   Richard Atkinson;
*                   Christian W. Zuckschwerdt;
*                   Martin Krauskopf;
*
* Changes:
* --------
* 03-Apr-2002 : Version 1, contributed by Hari. This class is based on the
*                StandardXYItemRenderer class (DG);
* 09-Apr-2002 : Removed the translated zero from the drawItem method -
*                overridden the initialise() method to calculate it (DG);
* 30-May-2002 : Added tool tip generator to constructor to match super
*                class (DG);
* 25-Jun-2002 : Removed unnecessary local variable (DG);
* 05-Aug-2002 : Small modification to drawItem method to support URLs for
*                HTML image maps (RA);
* 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 07-Nov-2002 : Renamed AreaXYItemRenderer --> XYAreaRenderer (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 01-May-2003 : Modified drawItem() method signature (DG);
* 27-Jul-2003 : Made line and polygon properties protected rather than
*                private (RA);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 07-Oct-2003 : Added renderer state (DG);
* 08-Dec-2003 : Modified hotspot for chart entity (DG);
* 10-Feb-2004 : Changed the drawItem() method to make cut-and-paste
*                overriding easier. Also moved state class into this
*                class (DG);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState. Renamed
*                XYToolTipGenerator --> XYItemLabelGenerator (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*                getYValue() (DG);
* 11-Nov-2004 : Now uses ShapeUtilities to translate shapes (DG);
* 19-Jan-2005 : Now accesses only primitives from the dataset (DG);
* 21-Mar-2005 : Override getLegendItem() (DG);
* 20-Apr-2005 : Use generators for legend tooltips and URLs (DG);
* 30-Nov-2006 : Fixed equals() and clone() implementations (DG);
* 06-Feb-2007 : Fixed bug 1086307, crosshairs with multiple axes (DG);
* 20-Apr-2007 : Updated getLegendItem() and drawItem() for renderer change (DG);
* 17-May-2007 : Set datasetIndex and seriesIndex in getLegendItem() (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 17-Jun-2008 : Apply legend font and paint attributes (DG);
* 06-Oct-2011 : Avoid GeneralPath methods requiring Java 1.5 (MK);
* 03-Jul-2013 : Use ParamChecks (DG);
* /

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/renderer/xy/XYAreaRenderer2.java
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* Changes
* -------
* 05-Feb-2003 : Version 1 (DG);
* 01-Mar-2004 : Added equals() and clone() methods and implemented
*   Serializable (DG);
* 03-Oct-2007 : Updated getObject() to handle modified behaviour in
*   KeyedObjects class, added clear() method (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* *
*/

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* Changes
* -------
* 22-Nov-2001 : Version 1 (DG);
* 08-Jan-2001 : Added chartPanel attribute (DG);
* 24-May-2002 : Renamed JFreeChartFrame --> ChartFrame (DG);
* 
* /*

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* Changes
* -------
* 04-Mar-2003 : Version 1 (DG);
* 13-Mar-2003 : Implemented Serializable (DG);
* /

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* Contributor(s):  David Gilbert (for Object Refinery Limited);
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* Changes
* ------
* 20-Oct-2003 : Version 1, contributed by Darshan Shah (DG);
* 06-Nov-2003 : Changed order of parameters in constructor, and added support
*               for GradientPaint (DG);
* 10-Feb-2004 : Updated drawItem() method to make cut-and-paste overriding
*               easier. Also fixed a bug that meant the minimum bar length
*               was being ignored (DG);
* 04-Oct-2004 : Reworked equals() method and renamed PaintUtils
*               --> PaintUtilities (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 07-Jan-2005 : Renamed getRangeExtent() --> findRangeBounds (DG);
* 23-Feb-2005 : Added argument checking (DG);
* 20-Apr-2005 : Renamed CategoryLabelGenerator
*               --> CategoryItemLabelGenerator (DG);
* 09-Jun-2005 : Use addItemEntity() from superclass (DG);
* 27-Mar-2008 : Fixed error in findRangeBounds() method (DG);
* 26-Sep-2008 : Fixed bug with bar alignment when maximumBarWidth is
*               applied (DG);
* 04-Feb-2009 : Updated findRangeBounds to handle null dataset consistently
*               with other renderers (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* /

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* Changes
* -------
* 13-Mar-2003 : Version 1 (copied from DefaultCategoryDataset) (DG);
* 23-Apr-2003 : Moved implementation into the DefaultCategoryDataset
* class (DG);
*
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 * Changes
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 * 15-Apr-2004 : Version 1, split from PieItemLabelGenerator (DG);
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* Changes
* -------
* 27-Oct-2003 : Version 1 (DG);
* 19-Feb-2004 : Moved to org.jfree.chart.labels, updated Javadocs and argument
*   checking (DG);
* 26-Feb-2004 : Added new constructor (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* 
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Found in path(s):
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* -----------------
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*
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  Peter Kolb (patch 2809117);
*
* Changes:
* --------
* 28-Aug-2002 : Version 1 (DG);
* 07-Nov-2002 : Fixed errors reported by Checkstyle (DG);
* 13-Jan-2003 : Reviewed Javadocs (DG);
* 09-May-2003 : Added plot to draw() method (DG);
* 02-Jul-2003 : Eliminated the Annotation base interface (DG);
* 29-Sep-2004 : Added 'rendererIndex' and 'info' parameter to draw() method
*              to support chart entities (tool tips etc) (DG);
* 24-Jun-2009 : Now extends Annotation (see patch 2809117 by PK) (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/annotations/XYAnnotation.java
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s):  Jonathan Nash;
* Nicolas Brodu (for Astrium and EADS Corporate Research
* Center);
* Peter Kolb (patch 1934255);
* Andrew Mickish (patch 1870189);

* Changes
* -------
* 18-Sep-2001 : Added standard header and fixed DOS encoding problem (DG);
* 23-Nov-2001 : Overhauled standard tick unit code (DG);
* 04-Dec-2001 : Changed constructors to protected, and tidied up default
* values (DG);
* 12-Dec-2001 : Fixed vertical gridlines bug (DG);
* 16-Jan-2002 : Added an optional crosshair, based on the implementation by
* Jonathan Nash (DG);
* 23-Jan-2002 : Moved the minimum and maximum values to here from NumberAxis,
* and changed the type from Number to double (DG);
* 25-Feb-2002 : Added default value for autoRange. Changed autoAdjustRange
* from public to protected. Updated import statements (DG);
* 23-Apr-2002 : Added setRange() method (DG);
* 29-Apr-2002 : Added range adjustment methods (DG);
* 13-Jun-2002 : Modified setCrosshairValue() to notify listeners only when the
* crosshairs are visible, to avoid unnecessary repaints, as
* suggested by Kees Kuip (DG);
* 25-Jul-2002 : Moved lower and upper margin attributes from the NumberAxis
class (DG);
* 05-Sep-2002 : Updated constructor for changes in Axis class (DG);
* 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 04-Oct-2002 : Moved standardTickUnits from NumberAxis --> ValueAxis (DG);
* 08-Nov-2002 : Moved to new package com.jrefinery.chart.axis (DG);
* 19-Nov-2002 : Removed grid settings (now controlled by the plot) (DG);
* 04-Oct-2002 : Moved the 'inverted' attribute from NumberAxis to
*       ValueAxis (DG);
* 03-Jan-2003 : Small fix to ensure auto-range minimum is observed
*               immediately (DG);
* 14-Jan-2003 : Changed autoRangeMinimumSize from Number --> double (DG);
* 20-Jan-2003 : Replaced monolithic constructor (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 09-May-2003 : Added AxisLocation parameter to translation methods (DG);
* 13-Aug-2003 : Implemented Cloneable (DG);
* 01-Sep-2003 : Fixed bug 793167 (setMaximumAxisValue exception) (DG);
* 02-Sep-2003 : Fixed bug 795366 (zooming on inverted axes) (DG);
* 08-Sep-2003 : Completed Serialization support (NB);
* 08-Sep-2003 : Renamed get/setMinimumValue --> get/setLowerBound,
*               and get/setMaximumValue --> get/setUpperBound (DG);
* 27-Oct-2003 : Changed DEFAULT_AUTO_RANGE_MINIMUM_SIZE value - see bug ID
*               829606 (DG);
* 07-Nov-2003 : Changes to tick mechanism (DG);
* 06-Jan-2004 : Moved axis line attributes to Axis class (DG);
* 21-Jan-2004 : Removed redundant axisLineVisible attribute. Renamed
*       translateJava2DToValue --> java2DToValue, and
*       translateValueToJava2D --> valueToJava2D (DG);
* 23-Jan-2004 : Fixed setAxisLinePaint() and setAxisLineStroke() which had no
*       effect (andreas.gawecki@coremedia.com);
* 07-Apr-2004 : Changed text bounds calculation (DG);
* 26-Apr-2004 : Added getter/setter methods for arrow shapes (DG);
* 18-May-2004 : Added methods to set axis range *including* current
*               margins (DG);
* 02-Jun-2004 : Fixed bug in setRangeWithMargins() method (DG);
* 30-Sep-2004 : Moved drawRotatedString() from RefineryUtilities
*               -- TextUtilities (DG);
* 11-Jan-2005 : Removed deprecated methods in preparation for 1.0.0
*               release (DG);
* 21-Apr-2005 : Replaced Insets with RectangleInsets (DG);
* 10-Oct-2006 : Source reformatting (DG);
* 22-Mar-2007 : Added new defaultAutoRange attribute (DG);
* 02-Aug-2007 : Check for major tick when drawing label (DG);
* 25-Sep-2008 : Added minor tick support, see patch 1934255 by Peter Kolb (DG);
* 21-Jan-2009 : Updated default behaviour of minor ticks (DG);
* 18-Mar-2008 : Added resizeRange2() method which provides more natural
*               anchored zooming for mouse wheel support (DG);
* 26-Mar-2009 : In equals(), only check current range if autoRange is
* false (DG);
* 30-Mar-2009 : Added pan(double) method (DG);
* 03-Sep-2012 : Fix reserveSpace() method, bug 3555275 (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 18-Mar-2014 : Updates to support attributed tick labels for LogAxis (DG);
* 29-Jul-2014 : Add hints to normalise axis line and tick marks (DG);
*
*/

Found in path(s):
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*
* Original Author: Richard Atkinson;
* Contributor(s): Christian W. Zuckschwerdt;
* David Gilbert (for Object Refinery Limited);
Changes:
-------
27-Jul-2003 : Initial version (RA);
30-Jul-2003 : Modified entity constructor (CZ);
18-Aug-2003 : Now handles null values (RA);
20-Aug-2003 : Implemented Cloneable, PublicCloneable and Serializable (DG);
22-Sep-2003 : Changed to be a two pass renderer with optional shape Paint
              and Stroke (RA);
07-Oct-2003 : Added renderer state (DG);
10-Feb-2004 : Updated state object and changed drawItem() method to make
              overriding easier (DG);
25-Feb-2004 : Replaced CrosshairInfo with CrosshairState. Renamed
              XYSnowtipGenerator --> XYItemLabelGenerator (DG);
15-Jul-2004 : Switched getX() with getXValue() and getY() with
              getYValue() (DG);
10-Sep-2004 : Removed getRangeType() method (DG);
11-Nov-2004 : Now uses ShapeUtilities to translate shapes (DG);
06-Jan-2005 : Override equals() (DG);
07-Jan-2005 : Update for method name changes in DatasetUtilities (DG);
28-Mar-2005 : Use getXValue() and getYValue() from dataset (DG);
06-Jun-2005 : Fixed null pointer exception, plus problems with equals() and
              serialization (DG);
---------- JFREECHART 1.0.x -----------------------------------------------
10-Nov-2006 : Fixed bug 1593156, NullPointerException with line
              plotting (DG);
02-Feb-2007 : Fixed bug 1649686, crosshairs don't stack y-values (DG);
06-Feb-2007 : Fixed bug 1086307, crosshairs with multiple axes (DG);
22-Mar-2007 : Fire change events in setShapePaint() and setShapeStroke()
              methods (DG);
20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
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* Original Author: Jon Iles;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Christian W. Zuckschwerdt;
*
* Changes:
* -------
* 21-May-2002 : Version 1, contributed by John Iles (DG);
* 29-May-2002 : Now extends AbstractCategoryItemRenderer (DG);
* 11-Jun-2002 : Updated Javadoc comments (DG);
* 25-Jun-2002 : Removed unnecessary imports (DG);
* 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 10-Oct-2002 : Added constructors and basic entity support (DG);
* 24-Oct-2002 : Amendments for changes in CategoryDataset interface and
* CategoryToolTipGenerator interface (DG);
* 05-Nov-2002 : Replaced references to CategoryDataset with TableDataset (DG);
* 06-Nov-2002 : Renamed drawCategoryItem() \rightarrow drawItem() and now using axis
* for category spacing. Renamed AreaCategoryItemRenderer
* \rightarrow AreaRenderer (DG);
* 17-Jan-2003 : Moved plot classes into a separate package (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 10-Apr-2003 : Changed CategoryDataset to KeyedValues2DDataset in
* drawItem() method (DG);
* 12-May-2003 : Modified to take into account the plot orientation (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 13-Aug-2003 : Implemented Cloneable (DG);
* 07-Oct-2003 : Added renderer state (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 20-Apr-2005 : Apply tooltips and URLs to legend items (DG);
* 09-Jun-2005 : Use addItemEntity() method from superclass (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 11-Oct-2006 : Fixed bug in equals() method (DG);
* 30-Nov-2006 : Added checks for series visibility (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
* 17-May-2007 : Set datasetIndex and seriesIndex in getLegendItem() (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
* 26-Jun-2008 : Added crosshair support (DG);
* 26-May-2009 : Support AreaRendererEndType.LEVEL (DG);
* 27-May-2009 : Fixed item label anchor for horizontal orientation (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/renderer/category/AreaRenderer.java
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XYShapeAnnotation.java

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Original Author:  Greg Steckman (for Ondax, Inc.);
Contributor(s):  David Gilbert (for Object Refinery Limited);
Peter Kolb (patch 2809117);

Changes:

15-Aug-2003 : Version 1, adapted from
org.jfree.chart.annotations.XYLineAnnotation (GS);
21-Jan-2004 : Update for renamed method in ValueAxis (DG);
20-Apr-2004 : Added new constructor and fixed bug 934258 (DG);
29-Sep-2004 : Added 'fillPaint' to allow for colored shapes, now extends
AbstractXYAnnotation to add tool tip and URL support, and
implemented equals() and Cloneable (DG);
21-Jan-2005 : Modified constructor for consistency with other
constructors (DG);
06-Jun-2005 : Fixed equals() method to handle GradientPaint (DG);
------------- JFREECHART 1.0.x ---------------------------------------------
24-Oct-2006 : Calculate AffineTransform on shape's bounding rectangle
rather than sample points (0, 0) and (1, 1) (DG);
06-Mar-2007 : Implemented hashCode() (DG);
02-Jul-2013 : Use ParamChecks (DG);
/

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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* -------
* 02-Mar-2004 : Version 1 (DG);
* 05-May-2004 : Now extends AbstractIntervalXYDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*                 getYValue() (DG);
* ------------ JFREECHART 1.0.x ---------------------------------------------
* 25-Jan-2007 : Added some accessor methods, plus new equals() and clone()
*                 overrides (DG);
* 30-Jan-2007 : Added method overrides to prevent unnecessary object
*                 creation (DG);
* 22-Apr-2008 : Implemented PublicCloneable (DG);
* */

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StandardCategorySeriesLabelGenerator.java
-----------------------------------------
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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): -;

Changes
-------
20-Apr-2005 : Version 1 (DG);
------------ JFREECHART 1.0.x ---------------------------------------------
03-May-2006 : Fixed equals() method (bug 1481102) (DG);
31-Mar-2008 : Added hashCode() method to appease FindBugs (DG);
03-Jul-2013 : Use ParamChecks (DG);

*/

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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Luke Quinane;
*
* Changes
* ------
* 23-Jan-2003 : Version 1 (DG);
* 25-Nov-2003 : Patch to handle 'NaN' values (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_165402912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s): Peter Kolb (patch 2809117);
*
* Changes:
* --------
* 02-Oct-2006 : Version 1 (DG);
* 06-Mar-2007 : Implemented hashCode() (DG);
* 24-Jun-2009 : Fire change events (see patch 2809117 by PK) (DG);
* 30-Mar-2010 : Correct calculation of pointer line (see patch 2954302) (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/

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GanttCategoryDataset.java

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Contributor(s): -;

Changes
-------
16-Sep-2003: Version 1, based on MultiIntervalCategoryDataset (DG);
23-Sep-2003: Fixed Checkstyle issues (DG);
12-May-2008: Updated API docs (DG);

*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/gantt/GanttCategoryDataset.java
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* Original Author:  Cameron Riley;
* Contributor(s):  David Gilbert (for Object Refinery Limited);
*
* Changes
* -------
* 23-Jan-2003 : Version 1, contributed by Cameron Riley (DG);
* 25-Nov-2004 : Changed first 7 colors to softer shades (DG);
* 03-Nov-2005 : Removed orange color, too close to yellow - see bug
* report 1328408 (DG);
* ---------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* *
* /

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* --------------------------
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* -------
* 31-Oct-2003 : Version 1 (DG);
* 17-Feb-2004 : Added new constructor (DG);
* 23-Mar-2004 : Added width calculation parameters (DG);
* 07-Jan-2005 : Fixed bug in equals() method (DG);
* 11-Jan-2005 : Removed deprecated constructor in preparation for the 1.0.0
* release (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/*

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* /opt/ cola/ permits/1001218797_1654022912.9656126/0/jfreechart-1.0-19-sources- jar/org/jfree/chart/axis/CategoryLabelPosition.java
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* Original Author:  David Gilbert (for Object Refinery Limited);
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*
* Changes
* -------
* 03-Nov-2006 : Version 1 (DG);
*
* /

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/dial/DialFrame.java
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*
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):   -;
*
* Changes
* ------
* 30-Jan-2007 : Version 1 (DG);
* 24-May-2007 : Renamed getDeltaXValue() as getVectorXValue(), and likewise
*               for getDeltaYValue(), and replaced getDeltaX()/getDeltaY()
*               with getVector() (DG);
* 25-May-2007 : Moved from experimental to the main source tree (DG);
* /
*
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/data/xy/VectorXYDataset.java
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Changes
-------
23-Jan-2003 : Version 1 (DG);

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/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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*
* Original Author: David Browning (for Australian Institute of Marine
* Science);
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* -------
* 05-Aug-2003 : Version 1, contributed by David Browning (DG);
* 12-Aug-2003 : Added new methods: getMaxNonOutlierValue
*               getMaxNonFaroutValue
*               getOutlierCoefficient
*               setOutlierCoefficient
*               getFaroutCoefficient
*               setFaroutCoefficient
*               getInterquartileRange (DB)
* 27-Aug-2003 : Renamed BoxAndWhiskerDataset --> BoxAndWhiskerXYDataset, and
*               cut down methods (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/data/statistics/BoxAndWhiskerXYDataset.java
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*
* Original Author: Richard Atkinson;
* Contributors: David Gilbert (for Object Refinery Limited);
*
* Changes:
* -------
* 05-Aug-2002: Version 1, contributed by Richard Atkinson;
* 09-Oct-2002: Fixed errors reported by Checkstyle (DG);
* 10-Apr-2003: Replaced reference to CategoryDataset with
* KeyedValues2DDataset (DG);
* 23-Apr-2003: Switched around CategoryDataset and KeyedValues2DDataset
* (again) (DG);
* 13-Aug-2003: Added clone() method (DG);
* 14-Jun-2004: Removed clone() method - classes that implement the interface
* should implement the PublicCloneable interface instead,
* wherever possible (DG);
* 02-Feb-2007: Removed author tags from all over JFreeChart sources (DG);
* 13-Dec-2007: Updated API docs (DG);
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Found in path(s):
*/
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/urls/CategoryURLGenerator.java

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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* Changes
* --------
* 05-Aug-2003 : Renamed XYDataPair --> XYDataItem (DG);
* 03-Feb-2004 : Fixed bug in equals() method (DG);
* 21-Feb-2005 : Added setY(double) method (DG);
* 30-Nov-2007 : Implemented getXValue() and getYValue(), plus toString() for
* debugging use (DG);
* 10-Jun-2009 : Reimplemented cloning (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* *
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Changes:
* --------
* 09-Apr-2009 : Version 1 (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/panel/CrosshairOverlay.java
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    * BarChartDemo1.java
    * ==================
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    * Original Author: David Gilbert (for Object Refinery Limited);
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    * Changes
    * -------
    * 09-Mar-2005 : Version 1 (DG);
    * 11-Mar-2014 : Use new ChartFactory method (DG);
* 25-Jun-2014 : Update to use real data (DG);

*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/demo/BarChartDemo1.java
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* -----------------------

* StackedBarRenderer.java
* -----------------------

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* Contributor(s): Richard Atkinson;
* Thierry Saura;
* Christian W. Zuckschwerdt;
* Peter Kolb (patch 2511330);

* Changes
* -------
* 19-Oct-2001 : Version 1 (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* 23-Oct-2001 : Changed intro and trail gaps on bar plots to use percentage of
  available space rather than a fixed number of units (DG);
* 15-Nov-2001 : Modified to allow for null data values (DG);
* 22-Nov-2001 : Modified to allow for negative data values (DG);
* 13-Dec-2001 : Added tooltips (DG);
* 16-Jan-2002 : Fixed bug for single category datasets (DG);
* 15-Feb-2002 : Added isStacked() method (DG);
* 14-Mar-2002 : Modified to implement the CategoryItemRenderer interface (DG);
* 24-May-2002 : Incorporated tooltips into chart entities (DG);
* 11-Jun-2002 : Added check for (permitted) null info object, bug and fix
  reported by David Basten. Also updated Javadocs. (DG);
* 25-Jun-2002 : Removed redundant import (DG);
* 26-Jun-2002 : Small change to entity (DG);
* 05-Aug-2002 : Small modification to drawCategoryItem method to support URLs
  for HTML image maps (RA);
* 08-Aug-2002 : Added optional linking lines, contributed by Thierry Saura (DG);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 24-Oct-2002 : Amendments for changes in CategoryDataset interface and
  CategoryToolTipGenerator interface (DG);
* 05-Nov-2002 : Replaced references to CategoryDataset with TableDataset (DG);
* 26-Nov-2002 : Replaced isStacked() method with getRangeType() method (DG);
* 17-Jan-2003 : Moved plot classes to a separate package (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 12-May-2003 : Merged horizontal and vertical stacked bar renderers (DG);
* 30-Jul-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 21-Oct-2003 : Moved bar width into renderer state (DG);
* 26-Nov-2003 : Added code to respect maxBarWidth attribute (DG);
* 05-Nov-2004 : Changed to a two-pass renderer so that item labels are not
  overwritten by other bars (DG);
* 07-Jan-2005 : Renamed getRangeExtent() --> findRangeBounds() (DG);
* 29-Mar-2005 : Modified drawItem() method so that a zero value is handled
  within the code for positive rather than negative values (DG);
* 20-Apr-2005 : Renamed CategoryLabelGenerator
  --> CategoryItemLabelGenerator (DG);
* 17-May-2005 : Added flag to allow rendering values as percentages - inspired
  by patch 1200886 submitted by John Xiao (DG);
* 09-Jun-2005 : Added accessor methods for the renderAsPercentages flag,
  provided equals() method, and use addItemEntity from
  superclass (DG);
* 09-Jun-2005 : Added support for GradientPaint - see bug report 1215670 (DG);
* 22-Sep-2005 : Renamed getMaxBarWidth() --> getMaximumBarWidth() (DG);
* 29-Sep-2005 : Use outline stroke in drawItem method - see bug report
  1304139 (DG);
/* ---------------- JFREECHART 1.0.x ---------------------------------------------
 * 11-Oct-2006 : Source reformatting (DG);
 * 24-Jun-2008 : Added new barPainter mechanism (DG);
 * 04-Feb-2009 : Added support for hidden series (PK);
 * */

Found in path(s):
/* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/renderer/category/StackedBarRenderer.java
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* 15-Nov-2001 : Version 1 (DG);
* 26-Mar-2002 : Modified to extend RuntimeException rather than Exception (DG);
* 18-Aug-2003 : Implemented Serializable (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/general/SeriesException.java

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* Changes
* -------
* 23-Sep-2003 : Version 1 (DG);
25-Oct-2007: Implemented Serializable and equals() method (DG);

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* Contributor(s): Sylvain Vieujot;
* Jeremy Bowman;
* Andreas Schneider;
* Gideon Krause;
* Nicolas Brodu;
* Michal Krause;
* Richard West, Advanced Micro Devices, Inc.;
Changes

21-Jun-2001: Removed redundant JFreeChart parameter from constructors (DG);
18-Sep-2001: Updated header info and fixed DOS encoding problem (DG);
19-Oct-2001: Moved series paint and stroke methods from JFreeChart
class (DG);
23-Oct-2001: Created renderer for LinePlot class (DG);
07-Nov-2001: Changed type names for ChartChangeEvent (DG);
Tidied up some Javadoc comments (DG);
13-Nov-2001: Changes to allow for null axes on plots such as PiePlot (DG);
Added plot/axis compatibility checks (DG);
12-Dec-2001: Changed constructors to protected, and removed unnecessary
'throws' clauses (DG);
13-Dec-2001: Added tooltips (DG);
22-Jan-2002: Added handleClick() method, as part of implementation for
crosshairs (DG);
Moved tooltips reference into ChartInfo class (DG);
23-Jan-2002: Added test for null axes in chartChanged() method, thanks
to Barry Evans for the bug report (number 506979 on
SourceForge) (DG);
Added a zoom() method (DG);
05-Feb-2002: Updated setBackgroundPaint(), setOutlineStroke() and
setOutlinePaint() to better handle null values, as suggested
by Sylvain Vieujot (DG);
06-Feb-2002: Added background image, plus alpha transparency for background
and foreground (DG);
06-Mar-2002: Added AxisConstants interface (DG);
26-Mar-2002: Changed zoom method from empty to abstract (DG);
23-Apr-2002: Moved dataset from JFreeChart class (DG);
11-May-2002: Added ShapeFactory interface for getShape() methods,
contributed by Jeremy Bowman (DG);
28-May-2002: Fixed bug in setSeriesPaint(int, Paint) for subplots (AS);
25-Jun-2002: Removed redundant imports (DG);
30-Jul-2002: Added 'no data' message for charts with null or empty
datasets (DG);
21-Aug-2002: Added code to extend series array if necessary (refer to
SourceForge bug id 594547 for details) (DG);
17-Sep-2002: Fixed bug in getSeriesOutlineStroke() method, reported by
Andreas Schroeder (DG);
23-Sep-2002: Added getLegendItems() abstract method (DG);
24-Sep-2002: Removed firstSeriesIndex, subplots now use their own paint
settings, there is a new mechanism for the legend to collect
the legend items (DG);
27-Sep-2002: Added dataset group (DG);
14-Oct-2002: Moved listener storage into EventListenerList. Changed some
abstract methods to empty implementations (DG);
* 28-Oct-2002: Added a getBackgroundImage() method (DG);
* 21-Nov-2002: Added a plot index for identifying subplots in combined and overlaid charts (DG);
* 22-Nov-2002: Changed all attributes from 'protected' to 'private'. Added dataAreaRatio attribute from David M O'Donnell's code (DG);
* 09-Jan-2003: Integrated fix for plot border contributed by Gideon Krause (DG);
* 17-Jan-2003: Moved to com.jrefinery.chart.plot (DG);
* 23-Jan-2003: Removed one constructor (DG);
* 26-Mar-2003: Implemented Serializable (DG);
* 14-Jul-2003: Moved the dataset and secondaryDataset attributes to the CategoryPlot and XYPlot classes (DG);
* 21-Jul-2003: Moved DrawingSupplier from CategoryPlot and XYPlot up to this class (DG);
* 20-Aug-2003: Implemented Cloneable (DG);
* 11-Sep-2003: Listeners and clone (NB);
* 29-Oct-2003: Added workaround for font alignment in PDF output (DG);
* 03-Dec-2003: Modified draw method to accept anchor (DG);
* 12-Mar-2004: Fixed clipping bug in drawNoDataMessage() method (DG);
* 07-Apr-2004: Modified string bounds calculation (DG);
* 04-Nov-2004: Added default shapes for legend items (DG);
* 25-Nov-2004: Some changes to the clone() method implementation (DG);
* 23-Feb-2005: Implemented new LegendItemSource interface (and also PublicCloneable) (DG);
* 21-Apr-2005: Replaced Insets with RectangleInsets (DG);
* 05-May-2005: Removed unused draw() method (DG);
* 06-Jun-2005: Fixed bugs in equals() method (DG);
* 01-Sep-2005: Moved dataAreaRatio from here to ContourPlot (DG);
* ---------------- JFREECHART 1.0.x ---------------------------------------------
* 30-Jun-2006: Added background image alpha - see bug report 1514904 (DG);
* 05-Sep-2006: Implemented the MarkerChangeListener interface (DG);
* 11-Jan-2007: Added some argument checks, event notifications, and many API doc updates (DG);
* 03-Apr-2007: Made drawBackgroundImage() public (DG);
* 07-Jun-2007: Added new fillBackground() method to handle GradientPaint taking into account orientation (DG);
* 25-Mar-2008: Added fireChangeEvent() method - see patch 1914411 (DG);
* 15-Aug-2008: Added setDrawingSupplier() method with notify flag (DG);
* 13-Jan-2009: Added notify flag (DG);
* 19-Mar-2009: Added entity support - see patch 2603321 by Peter Kolb (DG);
* 24-Jun-2009: Implemented AnnotationChangeListener (see patch 2809117 by PK) (DG);
* 13-Jul-2009: Plot background image should be clipped if necessary (DG);
* 02-Jul-2013: Use ParamChecks (DG);
* 29-Jul-2014: Add hint to normalise stroke for plot border (DG);
* */
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* Changes:
* --------
* 24-Mar-2004 : Version 1 (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
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* Contributor(s):  Rune Fauske;
* 
* Changes
* -------
* 12-Nov-2004 : Version 1 (DG);
* 26-Jan-2004 : Added getOrientation() method (DG);
* 04-Sep-2006 : Added credit for Rune Fauske, see patch 1050659 (DG);
* 21-Sep-2007 : Added new zooming methods with 'useAnchor' flag. This breaks
* the API, but is the cleanest way I can think of to fix a
* long-standing bug (DG);
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 *
 * Original Author:  Barak Naveh;
 * Contributor(s):  David Gilbert (for Object Refinery Limited);
 *
 * Changes
 * ------
 * 10-Jul-2003 : Version 1 contributed by Barak Naveh (DG);
 * 05-May-2004 : Now extends AbstractXYZDataset (DG);
 * 15-Jul-2004 : Switched getZ() and getZValue() methods (DG);
 * ------------- JFREECHART 1.0.x ---------------------------------------------
 * 27-Nov-2006 : Added clone() override (DG);
 * 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
 * 22-Apr-2008 : Implemented PublicCloneable (DG);
Found in path(s):
  * /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/xy/MatrixSeriesCollection.java

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 * Changes
 * ------
 * 05-Jul-2006 : Version 1 (DG);
 * 31-Jan-2007 : Fixed serialization support (DG);
 * 09-Mar-2007 : Fixed cloning (DG);
 * 14-Jun-2007 : Use double primitive in PaintItem (DG);
 * 28-Mar-2009 : Made PaintItem inner class static (DG);
* 03-Jul-2013: Use ParamChecks (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/renderer/LookupPaintScale.java
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 * Original Author: David Gilbert (for Object Refinery Limited);
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 *
 * Changes
 * ------
 * 11-May-2004: Version 1, split from IntervalCategoryItemLabelGenerator (DG);
 *
 */
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/IntervalCategoryItemLabelGenerator.java
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* Original Author: Pascal Collet;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Changes
* ------
* 21-Aug-2002 : Version 1, contributed by Pascal Collet (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 24-Oct-2002 : Amendments in line with changes to the CategoryDataset
* interface (DG);
* ------------ JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/statistics/StatisticalCategoryDataset.java
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08-Jun-2007: Added Greek symbols, and support for reversing the date - see patch 1577221 (DG);
02-Jul-2013: Use ParamChecks (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/axis/QuarterDateFormat.java
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 * Changes
 * ------
 * 05-May-2004: Version 1 (DG);
* 15-Jul-2004 : Switched getStartX() and getStartXValue() methods and
*        others (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.xy (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Changes:
* __________
* 31-Oct-2002 : Version 1 (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.base (DG);
*
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/ * HistogramBin.java
/ * ===============
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/ *
/ * Original Author: Jelai Wang (jelaiw AT mindspring.com);
/ * Contributor(s): David Gilbert (for Object Refinery Limited);
/ *
/ * Changes
/ * -------
/ * 06-Jul-2003 : Version 1, contributed by Jelai Wang (DG);
/ * 07-Jul-2003 : Changed package and added Javadocs (DG);
/ * 01-Mar-2004 : Moved from org.jfree.data --> org.jfree.data.statistics (DG);
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* -------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* */

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* Changes
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* 18-Sep-2001 : Added standard header and fixed DOS encoding problem (DG);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 08-Nov-2002 : Moved to new package com.jrefinery.chart.axis (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 12-Sep-2003 : Implemented Cloneable (NB);
* 07-Nov-2003 : Added subclasses for particular types of ticks (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*

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*                 Andreas Schroeder;
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* Changes
* -------
* 13-Dec-2001 : Version 1 (DG);
* 16-Jan-2002 : Completed Javadocs (DG);
* 29-Aug-2002 : Changed to format numbers using default locale (RA);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 30-Oct-2002 : Changed PieToolTipGenerator interface (DG);
* 21-Mar-2003 : Implemented Serializable (DG);
* 13-Aug-2003 : Implemented Cloneable (DG);
* 19-Aug-2003 : Renamed StandardPieToolTipGenerator -->
* StandardPieItemLabelGenerator (DG);
* 10-Mar-2004 : Modified to use MessageFormat class (DG);
* 31-Mar-2004 : Added javadocs for the MessageFormat usage (AS);
* 15-Apr-2004 : Split PieItemLabelGenerator interface into
* PieSectionLabelGenerator and PieToolTipGenerator (DG);
* 25-Nov-2004 : Moved some code into abstract super class (DG);
* 29-Jul-2005 : Removed implementation of PieSectionLabelGenerator
* interface (DG);
* 10-Jul-2007 : Added constructors with locale argument (DG);
* */

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*  
* Changes
* -------
* 08-Nov-2004 : Version 1 (DG);
* 22-Feb-2005 : Renamed DonutPlot --> RingPlot (DG);
* 06-Jun-2005 : Added default constructor and fixed equals() method to handle
* GradientPaint (DG);
*  
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 20-Dec-2005 : Fixed problem with entity shape (bug 1386328) (DG);
* 27-Sep-2006 : Updated drawItem() method for new lookup methods (DG);
* 12-Oct-2006 : Added configurable section depth (DG);
* 14-Feb-2007 : Added notification in setSectionDepth() method (DG);
* 23-Sep-2008 : Fix for bug 2121818 by Christoph Beck (DG);
* 13-Jul-2009 : Added support for shadow generator (DG);
* 11-Oct-2011 : Check sectionOutlineVisible - bug 3237879 (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 28-Feb-2014 : Add center text feature (DG);
*  
*/

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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes:
* -------
* 13-Mar-2003 : Version 1 (DG);
* 23-Apr-2003 : Switched CategoryDataset and KeyedValues2DDataset so that
*               CategoryDataset is the super interface (DG);
* 
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/general/KeyedValues2DDataset.java
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* Contributor(s): -;
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* Changes:
* --------
* 22-Oct-2004: Version 1 (DG);
* 04-Feb-2005: Implemented equals() and made serializable (DG);
* 08-Feb-2005: Updated for changes in RectangleConstraint (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/block/FlowArrangement.java

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*
* Original Author: Richard Atkinson;
* Contributor(s): -;
*
* Changes
* ------
* 01-Aug-2004 : Initial version (RA);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/encoders/ImageFormat.java
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08-Feb-2004 : Version 1 (DG);
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* 
* Original Author: Richard Atkinson;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Fawad Halim - bug 2690293;
* 
* Changes
* -------
* 02-Aug-2004 : Initial version (RA);
* 13-Jan-2005 : Renamed ImageMapUtilities (DG);
* 19-Jan-2005 : Reversed order of tags for chart entities to get correct
* layering (DG);
* 06-Feb-2006 : API doc updates (DG);
* 04-Dec-2007 : Added htmlEscape() method, and escape 'name' in
* getImageMap() (DG);
* 19-Mar-2009 : Added javascriptEscape() method - see bug 2690293 by FH (DG);
* 25-Mar-2009 : Reimplemented javascriptEscape() (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* */

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* 
* Original Author: Bill Kelemen;
* Contributor(s): -;
* 
* Changes
* ------
* 06-Dec-2001 : Version 1 (BK);
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* 
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XYURLGenerator.java

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Original Author: Richard Atkinson;
Contributors: David Gilbert (for Object Refinery Limited);

Changes:
--------
05-Aug-2002: Version 1, contributed by Richard Atkinson;
09-Oct-2002: Fixed errors reported by Checkstyle (DG);
20-Jan-2005: Minor Javadoc update (DG);
------------- JFREECHART 1.0.x -----------------------------
02-Feb-2007: Removed author tags from all over JFreeChart sources (DG);
13-Dec-2007: Updated API docs (DG);

/*

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author: David Gilbert (for Object Refinery Limited);
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* Changes
* -----
* 30-Jan-2007 : Version 1 (DG);
* 25-May-2007 : Moved from experimental to the main source tree (DG);
*
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/xy/XYCoordinate.java
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* Original Author: David Gilbert (for Object Refinery Limited);
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* Changes:
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* 25-Nov-2009 : Version 1 (DG);
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*[Original Author: David Gilbert (for Object Refinery Limited);
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* ______
* 27-Jun-2014 : Version 1 (DG);
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* -------------------------
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Richard West, Advanced Micro Devices, Inc. (major rewrite of difference drawing algorithm);
* Patrick Schlott
* Christoph Schroeder
* Martin Hoeller

* Changes:
* ________
* 30-Apr-2003 : Version 1 (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 09-Feb-2004 : Updated to support horizontal plot orientation (DG);
* 10-Feb-2004 : Added default constructor, setter methods and updated Javadocs (DG);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState (DG);
* 30-Mar-2004 : Fixed bug in getNegativePaint() method (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with getYValue() (DG);
* 25-Aug-2004 : Fixed a bug preventing the use of crosshairs (DG);
* 11-Nov-2004 : Now uses ShapeUtilities to translate shapes (DG);
* 19-Jan-2005 : Now accesses only primitive values from dataset (DG);
* 22-Feb-2005 : Override getLegendItem(int, int) to return "line" items (DG);
* 13-Apr-2005 : Fixed shape positioning bug (id = 1182062) (DG);
* 20-Apr-2005 : Use generators for legend tooltips and URLs (DG);
* 04-May-2005 : Override equals() method, renamed get/setPlotShapes() --> get/setShapesVisible (DG);
* 09-Jun-2005 : Updated equals() to handle GradientPaint (DG);
* 16-Jun-2005 : Fix bug (1221021) affecting stroke used for each series (DG);
* ________ JFREECHART 1.0.x ---------------------------------------------
* 24-Jan-2007 : Added flag to allow rounding of x-coordinates, and fixed bug in clone() (DG);
* 05-Feb-2007 : Added an extra call to updateCrosshairValues() in
drawItemPass1(), to fix bug 1564967 (DG);
* 06-Feb-2007 : Fixed bug 1086307, crosshairs with multiple axes (DG);
* 08-Mar-2007 : Fixed entity generation (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
* 23-Apr-2007 : Rewrite of difference drawing algorithm to allow use of
  * series with disjoint x-values (RW);
* 04-May-2007 : Set processVisibleItemsOnly flag to false (DG);
* 17-May-2007 : Set datasetIndex and seriesIndex in getLegendItem() (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 05-Nov-2007 : Draw item labels if visible (RW);
* 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
* 13-Feb-2012 : Applied patch 3450234 for bug 3425881 by Patrick Schlott and
  * Christoph Schroeder (MH);
* 03-Jul-2013 : Use ParamChecks (DG);
*
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* Changes:
* --------
* 01-Oct-2002 : Version 1 (DG);
* 28-May-2009 : Added accessor methods for co-efficients, implemented
* equals() and hashCode(), and added Serialization support (DG);
* 
* */

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    * DomainOrder.java
* Original Author: Richard Atkinson;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* -------
* 22-Sep-2003 : Changed to be an interface. Previous functionality moved to
*                DefaultTableXYDataset;
* 16-Feb-2004 : Updated Javadocs (DG);
* /

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* Changes
* 16-Nov-2004 : Version 1 (DG);
* 24-Nov-2006 : Fixed equals() method and updated API docs (DG);
* 31-Mar-2008 : Added hashCode() method to appease FindBugs (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
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 * ---------------
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 * 
 * Original Author: David Gilbert (for Object Refinery Limited);
 * Contributor(s): -;
Changes:
--------
22-Oct-2004 : Version 1 (DG);
04-Feb-2005 : Now cloneable and serializable (DG);
20-Apr-2005 : Added new draw() method (DG);
08-Apr-2008 : Added support for margin and border (DG);
08-May-2008 : Updated arrange() method to recognise incoming constraint (DG);
/
/

Found in path(s):
*/
*/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/block/EmptyBlock.java
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 * MouseWheelHandler.java
 * ----------------------
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 *
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  Ulrich Voigt - patch 2686040;
  Jim Goodwin - bug fix;
*
* Changes
* -------
* 18-Mar-2009 : Version 1, based on ideas by UV in patch 2686040 (DG);
* 26-Mar-2009 : Implemented Serializable (DG);
* 10-Sep-2009 : Bug fix by Jim Goodwin to respect domain/rangeZoomable flags
  in the ChartPanel (DG);
* 04-Nov-2009 : Pass mouse wheel notification to PiePlot (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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 * --------------------------
 * OverlayChangeListener.java
 * --------------------------
* Contributor(s): Bill Kelemen;
  * Nicolas Brodu;
  * Peter Kolb (patches 1934255 and 2603321);
  * Andrew Mickish (patch 1870189);

* Changes
* ------
* 21-Aug-2001: Added standard header, fixed DOS encoding problem (DG);
* 18-Sep-2001: Updated header (DG);
* 07-Nov-2001: Allow null axis labels (DG);
  * : Added default font values (DG);
* 13-Nov-2001: Modified the setPlot() method to check compatibility between
  * the axis and the plot (DG);
* 30-Nov-2001: Changed default font from "Arial" --> "SansSerif" (DG);
* 06-Dec-2001: Allow null in setPlot() method (BK);
* 06-Mar-2002: Added AxisConstants interface (DG);
* 23-Apr-2002: Added a visible property. Moved drawVerticalString to
  * RefineryUtilities. Added fixedDimension property for use in
  * combined plots (DG);
* 25-Jun-2002: Removed unnecessary imports (DG);
* 05-Sep-2002: Added attribute for tick mark paint (DG);
* 18-Sep-2002: Fixed errors reported by Checkstyle (DG);
* 07-Nov-2002: Added attributes to control the inside and outside length of
  * the tick marks (DG);
* 08-Nov-2002: Moved to new package com.jrefinery.chart.axis (DG);
* 18-Nov-2002: Added axis location to refreshTicks() parameters (DG);
* 15-Jan-2003: Removed monolithic constructor (DG);
* 17-Jan-2003: Moved plot classes to separate package (DG);
* 26-Mar-2003: Implemented Serializable (DG);
* 03-Jul-2003: Modified reserveSpace method (DG);
* 13-Aug-2003: Implemented Cloneable (DG);
* 11-Sep-2003: Took care of listeners while cloning (NB);
* 29-Oct-2003: Added workaround for font alignment in PDF output (DG);
* 06-Nov-2003: Modified refreshTicks() signature (DG);
* 06-Jan-2004: Added axis line attributes (DG);
* 16-Mar-2004: Added plot state to draw() method (DG);
* 07-Apr-2004: Modified text bounds calculation (DG);
* 18-May-2004: Eliminated AxisConstants.java (DG);
* 30-Sep-2004: Moved drawRotatedString() from RefineryUtilities -->
  * TextUtilities (DG);
* 04-Oct-2004: Modified getLabelEnclosure() method to treat an empty String
  * the same way as a null string - see bug 1026521 (DG);
* 21-Apr-2005: Replaced Insets with RectangleInsets (DG);
* 26-Apr-2005: Removed LOGGER (DG);
* 01-Jun-2005: Added hasListener() method for unit testing (DG);
* 08-Jun-2005: Fixed equals() method to handle GradientPaint (DG);
* ------------ JFREECHART 1.0.x -------------------------------
* 22-Aug-2006: API doc updates (DG);
* 06-Jun-2008 : Added setTickLabelInsets(RectangleInsets, boolean) (DG);
* 25-Sep-2008 : Added minor tick support, see patch 1934255 by Peter Kolb (DG);
* 26-Sep-2008 : Added fireChangeEvent() method (DG);
* 19-Mar-2009 : Added entity support - see patch 2603321 by Peter Kolb (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 01-Aug-2013 : Added attributedLabel override to support superscripts, subscripts and more (DG);
* 29-Jul-2014 : Add hint to normalise stroke for axis line (DG);
* */

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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  -;
Changes

28-Oct-2002 : Version 1 (DG);
12-Jan-2005 : Updated Javadocs (DG);

/* *
* Changes
* -------
* 28-Oct-2002 : Version 1 (DG);
* 12-Jan-2005 : Updated Javadocs (DG);
*
*/

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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Andrzej Porebski;
*     David Li;
*     Wolfgang Irler;
* Christian W. Zuckschwerdt;
* Klaus Rheinwald;
* Nicolas Brodu;
* Peter Kolb (patch 2603321);

* NOTE: The above list of contributors lists only the people that have
* contributed to this source file (JFreeChart.java) - for a list of ALL
* contributors to the project, please see the README.txt file.

* Changes (from 20-Jun-2001)
* --------------------------
* 20-Jun-2001 : Modifications submitted by Andrzej Porebski for legend
* placement;
* 21-Jun-2001 : Removed JFreeChart parameter from Plot constructors (DG);
* 22-Jun-2001 : Multiple titles added (original code by David Berry, with
* reworkings by DG);
* 18-Sep-2001 : Updated header (DG);
* 15-Oct-2001 : Moved data source classes into new package
* com.jrefinery.data.* (DG);
* 18-Oct-2001 : New factory method for creating VerticalXYBarChart (DG);
* 19-Oct-2001 : Moved series paint and stroke methods to the Plot class (DG);
* Moved static chart creation methods to new ChartFactory
* class (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* Fixed bug where chart isn't registered with the dataset (DG);
* 07-Nov-2001 : Fixed bug where null title in constructor causes
* exception (DG);
* Tidied up event notification code (DG);
* 17-Nov-2001 : Added getLegendItemCount() method (DG);
* 21-Nov-2001 : Set clipping in draw method to ensure that nothing gets drawn
* outside the chart area (DG);
* 11-Dec-2001 : Added the createBufferedImage() method, taken from the
* JFreeChartServletDemo class (DG);
* 13-Dec-2001 : Added tooltips (DG);
* 16-Jan-2002 : Added handleClick() method (DG);
* 22-Jan-2002 : Fixed bug correlating legend labels with pie data (DG);
* 05-Feb-2002 : Removed redundant tooltips code (DG);
* 19-Feb-2002 : Added accessor methods for the backgroundImage and
* backgroundImageAlpha attributes (DG);
* 21-Feb-2002 : Added static fields for INFO, COPYRIGHT, LICENCE, CONTRIBUTORS
* and LIBRARIES. These can be used to display information about
* JFreeChart (DG);
* 06-Mar-2002 : Moved constants to JFreeChartConstants interface (DG);
* 18-Apr-2002 : PieDataset is no longer sorted (oldman);
* 23-Apr-2002 : Moved dataset to the Plot class (DG);
* 13-Jun-2002 : Added an extra draw() method (DG);
* 25-Jun-2002 : Implemented the Drawable interface and removed redundant
* imports (DG);
* 26-Jun-2002 : Added another createBufferedImage() method (DG);
* 18-Sep-2002 : Fixed issues reported by Checkstyle (DG);
* 23-Sep-2002 : Added new contributor (DG);
* 28-Oct-2002 : Created main title and subtitle list to replace existing title
  * list (DG);
* 08-Jan-2003 : Added contributor (DG);
* 17-Jan-2003 : Added new constructor (DG);
* 22-Jan-2003 : Added ChartColor class by Cameron Riley, and background image
  * alignment code by Christian W. Zuckschwerdt (DG);
* 11-Feb-2003 : Added flag to allow suppression of chart change events, based
  * on a suggestion by Klaus Rheinwald (DG);
* 04-Mar-2003 : Added small fix for suppressed chart change events (see bug id
  * 690865) (DG);
* 10-Mar-2003 : Added Benoit Xhenseval to contributors (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 15-Jul-2003 : Added an optional border for the chart (DG);
* 11-Sep-2003 : Took care of listeners while cloning (NB);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 22-Sep-2003 : Added nullpointer checks.
* 25-Sep-2003 : Added nullpointer checks too (NB).
* 03-Dec-2003 : Legends are now registered by this class instead of using the
  * old constructor way (TM);
* 03-Dec-2003 : Added anchorPoint to draw() method (DG);
* 08-Jan-2004 : Reworked title code, introducing line wrapping (DG);
* 09-Feb-2004 : Created additional createBufferedImage() method (DG);
* 05-Apr-2004 : Added new createBufferedImage() method (DG);
* 27-May-2004 : Moved constants from JFreeChartConstants.java back to this
  * class (DG);
* 25-Nov-2004 : Updates for changes to Title class (DG);
* 06-Jan-2005 : Change lookup for default background color (DG);
* 31-Jan-2005 : Added Don Elliott to contributors (DG);
* 02-Feb-2005 : Added clearSubtitles() method (DG);
* 03-Feb-2005 : Added Mofeed Shahin to contributors (DG);
* 08-Feb-2005 : Updated for RectangleConstraint changes (DG);
* 28-Mar-2005 : Renamed Legend --> OldLegend (DG);
* 12-Apr-2005 : Added methods to access legend(s) in subtitle list (DG);
* 13-Apr-2005 : Added removeLegend() and removeSubtile() methods (DG);
* 20-Apr-2005 : Modified to collect chart entities from titles and
  * subtitles (DG);
* 26-Apr-2005 : Removed LOGGER (DG);
* 06-Jun-2005 : Added addLegend() method and padding attribute, fixed equals()
  * method (DG);
* 24-Nov-2005 : Removed OldLegend and related code - don't want to support
  * this in 1.0.0 final (DG);
* --------------- JFREECHART 1.0.x ---------------------------------------------
* 27-Jan-2006 : Updated version number (DG);
* 07-Dec-2006 : Added some missing credits (DG);
* 17-Jan-2007 : Added Darren Jung to contributor list (DG);
* 05-Mar-2007 : Added Sergei Ivanov to the contributor list (DG);
* 16-Mar-2007 : Modified initial legend border (DG);
* 22-Mar-2007 : New methods for text anti-aliasing (DG);
* 16-May-2007 : Fixed argument check in getSubtitle(), copy list in
get/setSubtitles(), and added new addSubtitle(int, Title)
method (DG);
* 05-Jun-2007 : Add change listener to default legend (DG);
* 04-Dec-2007 : In createBufferedImage() methods, make the default image type
BufferedImage.TYPE_INT_ARGB (thanks to Klaus Rheinwald) (DG);
* 05-Dec-2007 : Fixed bug 1749124 (not registering as listener with
TextTitle) (DG);
* 23-Apr-2008 : Added new contributor (Diego Pierangeli) (DG);
* 16-May-2008 : Added new contributor (Michael Siemer) (DG);
* 19-Sep-2008 : Check for title visibility (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
Jess Thrysoee (DG);
* 19-Mar-2009 : Added entity support - see patch 2603321 by Peter Kolb (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
* 29-Jun-2009 : Check visibility flag in main title (DG);
* 02-Jul-2013 : Use ParamChecks class (DG);
* 21-Jun-2014 : Set default hint value for stroke control (DG);
*
*/

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ToolTipTagFragmentGenerator.java
---

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Original Author: Richard Atkinson;

Changes
-------
12-Aug-2003: Version 1 (RA);
05-Dec-2007: Updated API docs (DG);

*/

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AbstractRenderer.java

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Original Author:  David Gilbert (for Object Refinery Limited);
Contributor(s):  Nicolas Brodu;

Changes:

22-Aug-2002 : Version 1, draws code out of AbstractXYItemRenderer to share
with AbstractCategoryItemRenderer (DG);
01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
06-Nov-2002 : Moved to the com.jrefinery.chart.renderer package (DG);
21-Nov-2002 : Added a paint table for the renderer to use (DG);
17-Jan-2003 : Moved plot classes into a separate package (DG);
25-Mar-2003 : Implemented Serializable (DG);
29-Apr-2003 : Added valueLabelFont and valueLabelPaint attributes, based on
code from Arnaud Lelievre (DG);
29-Jul-2003 : Amended code that doesn't compile with JDK 1.2.2 (DG);
13-Aug-2003 : Implemented Cloneable (DG);
15-Sep-2003 : Fixed serialization (NB);
17-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
07-Oct-2003 : Moved PlotRenderingInfo into RendererState to allow for
multiple threads using a single renderer (DG);
20-Oct-2003 : Added missing setOutlinePaint() method (DG);
23-Oct-2003 : Split item label attributes into 'positive' and 'negative'
values (DG);
26-Nov-2003 : Added methods to get the positive and negative item label
positions (DG);
01-Mar-2004 : Modified readObject() method to prevent null pointer exceptions
after deserialization (DG);
19-Jul-2004 : Fixed bug in getItemLabelFont(int, int) method (DG);
04-Oct-2004 : Updated equals() method, eliminated use of NumberUtils,
renamed BooleanUtils --> BooleanUtilities, ShapeUtils -->
ShapeUtilities (DG);
15-Mar-2005 : Fixed serialization of baseFillPaint (DG);
16-May-2005 : Base outline stroke should never be null (DG);
01-Jun-2005 : Added hasListener() method for unit testing (DG);
08-Jun-2005 : Fixed equals() method to handle GradientPaint (DG);
02-Feb-2007 : Minor API doc update (DG);
19-Feb-2007 : Fixes for clone() method (DG);
* 28-Feb-2007 : Use cached event to signal changes (DG);
* 19-Apr-2007 : Deprecated seriesVisible and seriesVisibleInLegend flags (DG);
* 20-Apr-2007 : Deprecated paint, fillPaint, outlinePaint, stroke,
  * outlineStroke, shape, itemLabelsVisible, itemLabelFont,
  * itemLabelPaint, positiveItemLabelPosition,
  * negativeItemLabelPosition and createEntities override
  * fields (DG);
* 13-Jun-2007 : Added new autoPopulate flags for core series attributes (DG);
* 23-Oct-2007 : Updated lookup methods to better handle overridden
  * methods (DG);
* 04-Dec-2007 : Modified hashCode() implementation (DG);
* 29-Apr-2008 : Minor API doc update (DG);
* 17-Jun-2008 : Added legendShape, legendTextFont and legendTextPaint
  * attributes (DG);
* 18-Aug-2008 : Added clearSeriesPaints() and clearSeriesStrokes() (DG);
* 28-Jan-2009 : Equals method doesn't test Shape equality correctly (DG);
* 27-Mar-2009 : Added dataBoundsIncludesVisibleSeriesOnly attribute, and
  * updated renderer events for series visibility changes (DG);
* 01-Apr-2009 : Factored up the defaultEntityRadius field from the
  * AbstractXYItemRenderer class (DG);
* 28-Apr-2009 : Added flag to allow a renderer to treat the legend shape as
  * a line (DG);
* 05-Jul-2012 : No need for BooleanUtilities now that min JDK = 1.4.2 (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* 09-Apr-2014 : Remove use of ObjectList (DG);
* */

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*
* Original Author: I. H. Thomae (ithomae@ists.dartmouth.edu);
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Ricardo JL Rufino (patch #310);
*
* Changes
* -------
* 22-Nov-2002 : Initial version completed
*  Jan 2003 : Optimized advanceTime(), added implemtn' of RangeInfo intfc
*    (using cached values for min, max, and range); also added
*    getOldestIndex() and getNewestIndex() fnns so client classes
*    can use this class as the master "index authority".
* 22-Jan-2003 : Made this class stand on its own, rather than extending
*    class FastTimeSeriesCollection
* 31-Jan-2003 : Changed TimePeriod --> RegularTimePeriod (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package (DG);
* 29-Apr-2003 : Added small change to appendData method, from Irv Thomae (DG);
* 19-Sep-2003 : Added new appendData method, from Irv Thomae (DG);
* 05-May-2004 : Now extends AbstractIntervalXYDataset. This also required a
*    change to the return type of the getY() method - I'm slightly
*    unsure of the implications of this, so it might require some
*    further amendment (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*    getYValue() (DG);
* 11-Jan-2004 : Removed deprecated code in preparation for the 1.0.0
*    release (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 01-Jul-2014 : Add millisecond time period - see patch #310 by Ricardo JL
*    Rufino (DG);
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 *
 * DefaultBoxAndWhiskerXYDataset.java
 * ==============================================================
 *
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 *
 * Original Author:  David Browning (for Australian Institute of Marine
 *                   Science);
 * Contributor(s):  David Gilbert (for Object Refinery Limited);
 *
 * Changes
 * ------
 * 05-Aug-2003 : Version 1, contributed by David Browning (DG);
 * 08-Aug-2003 : Minor changes to comments (DB)
 *      Allow average to be null - average is a peculiar AIMS
 *      requirement which probably should be stripped out and overlaid
 *      if required...
 *      Added a number of methods to allow the max and min non-outlier
 *      and non-farout values to be calculated

* 12-Aug-2003 Changed the getYValue to return the highest outlier value
*     Added getters and setters for outlier and farout coefficients
* 27-Aug-2003 : Renamed DefaultBoxAndWhiskerDataset
*     --> DefaultBoxAndWhiskerXYDataset (DG);
* 06-May-2004 : Now extends AbstractXYDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*     getYValue() (DG);
* 18-Nov-2004 : Updated for changes in RangeInfo interface (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
*     release (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* 12-Nov-2007 : Implemented equals() and clone() (DG);
* *
=*/

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* 
* Original Author: David Gilbert (for Object Refinery Limited); 
* Contributor(s): -;
* 
* Changes:
* --------
* 25-Jun-2014 : Version 1 (DG);
* 19-Jul-2014 : Add clearRect() call for each draw (DG);
* *
*/

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/* ________________________________ */
/* CombinedRangeCategoryPlot.java */
/* ________________________________ */

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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Nicolas Brodu;

* Changes:
* 16-May-2003 : Version 1 (DG);
* 08-Aug-2003 : Adjusted totalWeight in remove() method (DG);
* 19-Aug-2003 : Implemented Cloneable (DG);
* 11-Sep-2003 : Fix cloning support (subplots) (NB);
* 15-Sep-2003 : Implemented PublicCloneable. Fixed errors in cloning and
* serialization (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 17-Sep-2003 : Updated handling of 'clicks' (DG);
* 04-May-2004 : Added getter/setter methods for 'gap' attributes (DG);
* 12-Nov-2004 : Implements the new Zoomable interface (DG);
* 25-Nov-2004 : Small update to clone() implementation (DG);
* 21-Feb-2005 : Fixed bug in remove() method (id = 1121172) (DG);
* 21-Feb-2005 : The getLegendItems() method now returns the fixed legend
* items if set (DG);
* 05-May-2005 : Updated draw() method parameters (DG);
* 14-Nov-2007 : Updated setFixedDomainAxisSpaceForSubplots() method (DG);
* 27-Mar-2008 : Add documentation for getDataRange() method (DG);
* 31-Mar-2008 : Updated getSubplots() to return EMPTY_LIST for null
* subplots, as suggested by Richard West (DG);
* 26-Jun-2008 : Fixed crosshair support (DG);
* 11-Aug-2008 : Don't store totalWeight of subplots, calculate it as
* required (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1.0-19-sources-
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes:
* --------
* 22-Oct-2004 : Version 1 (DG);
* 02-Feb-2005 : Added isEmpty() method (DG);
* 04-Feb-2005 : Added equals(), clone() and implemented Serializable (DG);
* 08-Feb-2005 : Updated for changes in RectangleConstraint (DG);
* 20-Apr-2005 : Added new draw() method (DG);
* ------------ JFREECHART 1.0.x ---------------------------------------------
* 20-Jul-2006 : Perform translation directly on drawing area, not via
* Graphics2D (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/

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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):   -;

* Changes:
* ______
* 02-Oct-2008 : Version 1 (DG);
* 28-Apr-2009 : Fixed bug in legend shape display, and deprecated
*    getLegendLine() and setLegendLine() - these methods
*    are unnecessary because a mechanism already exists in the
*    superclass for specifying a custom legend shape (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1.0-19-sources.jar/org/jfree/chart/renderer/xy/SamplingXYLineRenderer.java
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* 17-Nov-2005: Added change events and argument checks (DG);
* ---------------- JFREECHART 1.0.x -------------------------------
* 02-Feb-2007: Removed author tags all over JFreeChart sources (DG);
* 09-Mar-2007: Fixed problem with horizontal rendering (DG);
* 28-Sep-2007: Added equals() method override (DG);
* 02-Jul-2013: Use ParamChecks (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* *
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Arnaud Lelievre;
* Daniel Gredler;
Changes
-------
24-Nov-2005 : Version 1, based on TitlePropertyEditPanel.java (DG);
18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
Jess Thrysoee (DG);
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* Changes:
* --------
* 22-Oct-2004 : Version 1 (DG);
* 02-Feb-2005 : Added toString() method (DG);
* 08-Feb-2005 : Separated height and width constraints (DG);
* 13-May-2005 : Added convenience constructor and new methods for
  transforming constraints (DG);
* *
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  *
  * Original Author:  David Gilbert (for Object Refinery Limited);
  * Contributor(s):  -;
* Changes
* ------
* 05-Jul-2006 : Version 1 (DG);
* 31-Jan-2007 : Added getLowerBound() and getUpperBound() methods (DG);
* *
* /

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 *
 * Original Author:  Bryan Scott (for the Australian Antarctic Division);
 * Contributor(s):  David Gilbert (for Object Refinery Limited);
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* Changes:
  * .........
  * 25-Sep-2002 : Version 1, contributed by Bryan Scott (DG);
  * 09-Sep-2003 : Added equals() method (DG);
  * 22-Nov-2007 : Implemented hashCode() (DG)
  *
  */

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    *
    * Original Author: Dan Rivett (adapted from AreaRenderer);
    * Contributor(s): Jon Iles;
    * David Gilbert (for Object Refinery Limited);
Changes:
--------
20-Sep-2002: Version 1, contributed by Dan Rivett;
24-Oct-2002: Amendments for changes in CategoryDataset interface and
CategoryToolTipGenerator interface (DG);
01-Nov-2002: Added tooltips (DG);
06-Nov-2002: Renamed drawCategoryItem() --> drawItem() and now using axis
for category spacing. Renamed StackedAreaCategoryItemRenderer
--> StackedAreaRenderer (DG);
26-Nov-2002: Switched CategoryDataset --> TableDataset (DG);
26-Nov-2002: Replaced isStacked() method with getRangeType() method (DG);
17-Jan-2003: Moved plot classes to a separate package (DG);
25-Mar-2003: Implemented Serializable (DG);
13-May-2003: Modified to take into account the plot orientation (DG);
30-Jul-2003: Modified entity constructor (CZ);
07-Oct-2003: Added renderer state (DG);
29-Apr-2004: Added getRangeExtent() override (DG);
05-Nov-2004: Modified drawItem() signature (DG);
07-Jan-2005: Renamed getRangeExtent() --> findRangeBounds() (DG);
---------------- JFREECHART 1.0.x ---------------------------------------------
11-Oct-2006: Added support for rendering data values as percentages,
and added a second pass for drawing item labels (DG);
04-Feb-2009: Fixed support for hidden series, and bug in findRangeBounds()
method for null dataset (PK/DG);
04-Feb-2009: Added item label support, and generate entities only in first
pass (DG);
04-Feb-2009: Fixed bug for renderAsPercentages == true (DG);
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Changes
* -------
* 15-Nov-2001: Version 1 (DG);
* 29-Nov-2001: Added cloning and property change support (DG);
* 30-Jan-2002: Added a description attribute and changed the constructors to
* protected (DG);
* 07-Oct-2002: Fixed errors reported by Checkstyle (DG);
* 13-Mar-2003: Implemented Serializable (DG);
* 01-May-2003: Added equals() method (DG);
* 26-Jun-2003: Changed listener list to use EventListenerList - see bug
* 757027 (DG);
* 15-Oct-2003: Added a flag to control whether or not change events are sent
* to registered listeners (DG);
* 19-May-2005: Made abstract (DG);
* ----------- JFREECHART 1.0.x -------------------------------
* 04-May-2006: Updated API docs (DG);
* 26-Sep-2007: Added isEmpty() and getItemCount() methods (DG);
* 16-Oct-2011: Added vetoable property change support for series name (DG);
* 03-Jul-2013: Use ParamChecks (DG);
* */

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SunJPEGEncoderAdapter.java

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 *
* Original Author: Richard Atkinson;
* Contributor(s): David Gilbert (for Object Refinery Limited);
 *
* Changes
* -------
* 01-Aug-2004 : Initial version (RA);
* 01-Nov-2005 : To remove the dependency on non-supported APIs, use ImageIO
* adapter will only be available on JDK 1.4 or later (DG);
* 20-Jul-2006 : Pass quality setting to ImageIO. Also increased default
* value to 0.95 (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
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/*

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* Changes
* ------
* 11-May-2003 : Version 1, split from StandardXYZItemLabelGenerator (DG);
* 15-Jul-2004 : Switched getZ() and getZValue() methods (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
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*
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;
*
* Changes
* ----- 
* 03-Nov-2006 : Version 1 (DG);
* 08-Mar-2007 : Fix in hashCode() (DG);
* 17-Oct-2007 : Updated equals() (DG);
* 24-Oct-2007 : Added argument checks and API docs, and renamed
* StandardDialFrame --> ArcDialFrame (DG);
* */
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/dial/ArcDialFrame.java

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 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):   -;
 *
 * Changes
 * -------
 * 14-Jan-2003 : Version 1 (DG);
 * 20-Jan-2010 : Fixed bug in constructor (DG);
 *
 */
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/event/ChartProgressEvent.java
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*
* Original Author: Bryan Scott (for the Australian Antarctic Division);
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes:
* -------
* 25-Sep-2002 : Version 1, contributed by Bryan Scott (DG);
* 27-Mar-2003 : Implemented Serializable (DG);
* 09-Sep-2003 : Added equals() method (DG);
* 08-Jun-2005 : Implemented Cloneable (DG);
* 22-Nov-2007 : Implemented hashCode() (DG);
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 * MovingAverage.java
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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):   Benoit Xhenseval;
 *
 * Changes
 * -------
 * 28-Jan-2003 : Version 1 (DG);
 * 10-Mar-2003 : Added createPointMovingAverage() method contributed by Benoit
 *               Xhenseval (DG);
 * 01-Aug-2003 : Added new method for TimeSeriesCollection, and fixed bug in
 *               XYDataset method (DG);
15-Jul-2004: Switched getX() with getXValue() and getY() with
getYValue() (DG);
11-Jan-2005: Removed deprecated code in preparation for the 1.0.0
release (DG);
09-Jun-2009: Tidied up some calls to TimeSeries (DG);
02-Jul-2013: Use ParamChecks (DG);
*/

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//opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/data/time/MovingAverage.java
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* MouseHandlerFX.java
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*
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--------
25-Jun-2014: Version 1 (DG);

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/* XYItemRendererState.java */
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/* */
/* Original Author:  David Gilbert (for Object Refinery Limited); */
/* Contributor(s):  Ulrich Voigt; */
/*                 Greg Darke; */
/* */
/* Changes: */
/* --------
* 07-Oct-2003 : Version 1 (DG);
* 27-Jan-2004 : Added workingLine attribute (DG);
* -------------- JFREECHART 1.0.x -------------------------------
* 04-May-2007 : Added processVisibleItemsOnly flag (DG);
* 09-Jul-2008 : Added start/endSeriesPass() methods - see patch 1997549 by
*                  Ulrich Voigt (DG);
* 19-Sep-2008 : Added first and last item indices, based on patch by Greg
*                  Darke (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/renderer/xy/XYItemRendererState.java
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* Original Author:  David Gilbert (for Object Refinery Limited);
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* Changes:
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* 30-Apr-2003 : Version 1 (DG);
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
ar/jfree/chart/axis/DateTickMarkPosition.java
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 * Original Author: Peter Kolb;
 * Contributor(s): David Gilbert (for Object Refinery Limited);
 * *
 * Changes:
* --------
* 23-Mar-2009 : Version 1, patch 2795746 (PK);
* 28-May-2009 : Integrated in JFreeChart with modifications (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/function/PolynomialFunction2D.java
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* Changes:
* -------
* 28-Oct-2002 : Version 1 (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.base (DG);
* /

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/Value.java
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 * CustomXYURLGenerator.java
 * -------------------------
 *
 * Original Author: Richard Atkinson;
 * Contributors:  David Gilbert (for Object Refinery Limited);
 *
 * Changes:
 * -------
 * 05-Aug-2002 : Version 1, contributed by Richard Atkinson;
* 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 23-Mar-2003 : Implemented Serializable (DG);
* 20-Jan-2005 : Minor Javadoc update (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* 11-Apr-2008 : Implemented Cloneable, otherwise charts using this URL
*    generator will fail to clone (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* * Changes
* -------
* 07-Oct-2002 : Added Javadocs (DG);
* 10-Jan-2003 : Renamed TimeAllocation --> SimpleTimePeriod (DG);
* 13-Mar-2003 : Added equals() method, and Serializable interface (DG);
* 21-Oct-2003 : Added hashCode() method (DG);
* 27-Jan-2005 : Implemented Comparable, to enable this class to be used
* in the TimeTableXYDataset class (DG);
* 02-Jun-2008 : Fixed problem with fields being mutable (DG);
* /
*/

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* Changes
* -------
* 05-Nov-2002 : Version 1 (DG);
* 14-Nov-2002 : Modified to have independent x and y offsets (DG);
*
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* Changes
* -------
* 15-Apr-2004 : Extracted the generateToolTip() method from the
*               XYItemLabelGenerator interface and put it into this new
*               interface (DG);
*
*/

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* Contributor(s):  David Gilbert (for Object Refinery Limited);
* Changes
* """
* 19-Jan-2004 : Version 1, contributed by DB with minor changes by DG (DG);
* 03-Oct-2011: Added tooltip and URL generator support (MH);
*
*/

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 *
 * --------------
 * CategoryPlot.java
 * --------------

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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Jeremy Bowman;
* Arnaud Lelievre;
* Richard West, Advanced Micro Devices, Inc.;
* Ulrich Voigt - patch 2686040;
* Peter Kolb - patches 2603321 and 2809117;
*
* Changes
* 21-Jun-2001 : Removed redundant JFreeChart parameter from constructors (DG);
* 21-Aug-2001 : Added standard header. Fixed DOS encoding problem (DG);
* 18-Sep-2001 : Updated header (DG);
* 15-Oct-2001 : Data source classes moved to com.jrefinery.data.* (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* 23-Oct-2001 : Changed intro and trail gaps on bar plots to use percentage of
* available space rather than a fixed number of units (DG);
* 12-Dec-2001 : Changed constructors to protected (DG);
* 13-Dec-2001 : Added tooltips (DG);
* 16-Jan-2002 : Increased maximum intro and trail gap percents, plus added
* some argument checking code. Thanks to Taoufik Romdhane for
* suggesting this (DG);
* 05-Feb-2002 : Added accessor methods for the tooltip generator, incorporated
* alpha-transparency for Plot and subclasses (DG);
* 06-Mar-2002 : Updated import statements (DG);
* 14-Mar-2002 : Renamed BarPlot.java --> CategoryPlot.java, and changed code
* to use the CategoryItemRenderer interface (DG);
* 22-Mar-2002 : Dropped the getCategories() method (DG);
* 23-Apr-2002 : Moved the dataset from the JFreeChart class to the Plot
* class (DG);
* 29-Apr-2002 : New methods to support printing values at the end of bars,
* contributed by Jeremy Bowman (DG);
* 11-May-2002 : New methods for label visibility and overlaid plot support,
* contributed by Jeremy Bowman (DG);
* 06-Jun-2002 : Removed the tooltip generator, this is now stored with the
* renderer. Moved constants into the CategoryPlotConstants
* interface. Updated Javadoc comments (DG);
* 10-Jun-2002 : Overridden datasetChanged() method to update the upper and
* lower bound on the range axis (if necessary), updated
* Javadocs (DG);
* 25-Jun-2002 : Removed redundant imports (DG);
* 20-Aug-2002 : Changed the constructor for Marker (DG);
* 28-Aug-2002 : Added listener notification to setDomainAxis() and
* setRangeAxis() (DG);
* 23-Sep-2002 : Added getLegendItems() method and fixed errors reported by
* Checkstyle (DG);
* 28-Oct-2002 : Changes to the CategoryDataset interface (DG);
* 05-Nov-2002 : Base dataset is now TableDataset not CategoryDataset (DG);
* 07-Nov-2002 : Renamed labelXXX as valueLabelXXX (DG);
* 18-Nov-2002 : Added grid settings for both domain and range axis (previously
* these were set in the axes) (DG);
* 19-Nov-2002 : Added axis location parameters to constructor (DG);
* 17-Jan-2003 : Moved to com.jrefinery.chart.plot package (DG);
* 14-Feb-2003 : Fixed bug in auto-range calculation for secondary axis (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 02-May-2003 : Moved render() method up from subclasses. Added secondary
* range markers. Added an attribute to control the dataset
rendering order. Added a drawAnnotations() method. Changed
the axis location from an int to an AxisLocation (DG);
* 07-May-2003: Merged HorizontalCategoryPlot and VerticalCategoryPlot into
this class (DG);
* 02-Jun-2003: Removed check for range axis compatibility (DG);
* 04-Jul-2003: Added a domain gridline position attribute (DG);
* 21-Jul-2003: Moved DrawingSupplier to Plot superclass (DG);
* 19-Aug-2003: Added equals() method and implemented Cloneable (DG);
* 01-Sep-2003: Fixed bug 797466 (no change event when secondary dataset
changes) (DG);
* 02-Sep-2003: Fixed bug 795209 (wrong dataset checked in render2 method) and
790407 (initialise method) (DG);
* 08-Sep-2003: Added internationalization via use of properties
resourceBundle (RFE 690236) (AL);
* 08-Sep-2003: Fixed bug (wrong secondary range axis being used). Changed
ValueAxis API (DG);
* 10-Sep-2003: Fixed bug in setRangeAxis() method (DG);
* 15-Sep-2003: Fixed two bugs in serialization, implemented
PublicCloneable (DG);
* 23-Oct-2003: Added event notification for changes to renderer (DG);
* 26-Nov-2003: Fixed bug (849645) in clearRangeMarkers() method (DG);
* 03-Dec-2003: Modified draw method to accept anchor (DG);
* 21-Jan-2004: Update for renamed method in ValueAxis (DG);
* 10-Mar-2004: Fixed bug in axis range calculation when secondary renderer is
stacked (DG);
* 12-May-2004: Added fixed legend items (DG);
* 19-May-2004: Added check for null legend item from renderer (DG);
* 02-Jun-2004: Updated the DatasetRenderingOrder class (DG);
* 05-Nov-2004: Renamed getDatasetsMappedToRangeAxis()
---> datasetsMappedToRangeAxis(), and ensured that returned
list doesn't contain null datasets (DG);
* 12-Nov-2004: Implemented new Zoomable interface (DG);
* 07-Jan-2005: Renamed getRangeExtent() --> findRangeBounds() in
CategoryItemRenderer (DG);
* 04-May-2005: Fixed serialization of range markers (DG);
* 05-May-2005: Updated draw() method parameters (DG);
* 20-May-2005: Added setDomainAxes() and setRangeAxes() methods, as per
RFE 1183100 (DG);
* 01-Jun-2005: Upon deserialization, register plot as a listener with its
axes, dataset(s) and renderer(s) - see patch 1209475 (DG);
* 02-Jun-2005: Added support for domain markers (DG);
* 06-Jun-2005: Fixed equals() method for use with GradientPaint (DG);
* 09-Jun-2005: Added setRenderers(), as per RFE 1183100 (DG);
* 16-Jun-2005: Added getDomainAxisCount() and getRangeAxisCount() methods, to
match XYPlot (see RFE 1220495) (DG);
* ------------ JFREECHART 1.0.x ------------------------------------------
* 27-Jan-2006 : Added various null argument checks (DG);
* 18-Aug-2006 : Added getDatasetCount() method, plus a fix for bug drawing
category labels, thanks to Adriaan Joubert (1277726) (DG);
* 05-Sep-2006 : Added MarkerChangeEvent support (DG);
* 30-Oct-2006 : Added getDomainAxisIndex(), datasetsMappedToDomainAxis() and
getCategoriesForAxis() methods (DG);
* 22-Nov-2006 : Fire PlotChangeEvent from setColumnRenderingOrder() and
setRowRenderingOrder() (DG);
* 29-Nov-2006 : Fix for bug 1605207 (IntervalMarker exceeds bounds of data
area) (DG);
* 26-Feb-2007 : Fix for bug 1669218 (setDomainAxisLocation() notify argument
ignored) (DG);
* 13-Mar-2007 : Added null argument checks for setRangeCrosshairPaint() and
setRangeCrosshairStroke(), fixed clipping for
annotations (DG);
* 07-Jun-2007 : Override drawBackground() for new GradientPaint handling (DG);
* 10-Jul-2007 : Added getRangeAxisIndex(ValueAxis) method (DG);
* 24-Sep-2007 : Implemented new zoom methods (DG);
* 25-Oct-2007 : Added some argument checks (DG);
* 05-Nov-2007 : Applied patch 1823697, by Richard West, for removal of domain
and range markers (DG);
* 14-Nov-2007 : Added missing event notifications (DG);
* 25-Mar-2008 : Added new methods with optional notification - see patch
1913751 (DG);
* 07-Apr-2008 : Fixed NPE in removeDomainMarker() and
removeRangeMarker() (DG);
* 23-Apr-2008 : Fixed equals() and clone() methods (DG);
* 26-Jun-2008 : Fixed crosshair support (DG);
* 10-Jul-2008 : Fixed outline visibility for 3D renderers (DG);
* 12-Aug-2008 : Added rendererCount() method (DG);
* 25-Nov-2008 : Added facility to map datasets to multiples axes (DG);
* 15-Dec-2008 : Cleaned up grid drawing methods (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
Jess Thrysoee (DG);
* 21-Jan-2009 : Added rangeMinorGridlinesVisible flag (DG);
* 18-Mar-2009 : Modified anchored zoom behaviour (DG);
* 19-Mar-2009 : Implemented Pannable interface - see patch 2686040 (DG);
* 19-Mar-2009 : Added entity support - see patch 2603321 by Peter Kolb (DG);
* 24-Jun-2009 : Implemented AnnotationChangeListener (see patch 2809117 by
PK) (DG);
* 06-Jul-2009 : Fix for cloning of renderers - see bug 2817504 (DG)
* 10-Jul-2009 : Added optional drop shadow generator (DG);
* 27-Sep-2011 : Fixed annotation import (DG);
* 18-Oct-2011 : Fixed tooltip offset with shadow generator (DG);
* 20-Nov-2011 : Initialise shadow generator as null (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 12-Sep-2013 : Check for KEY_SUPPRESS_SHADOW_GENERATION rendering hint (DG);
* 10-Mar-2014 : Updated Javadocs for issue #1123 (DG);
09-Apr-2014 : Remove use of ObjectList (DG);

/*
* 09-Apr-2014 : Remove use of ObjectList (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/plot/CategoryPlot.java
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* -----------
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* *
* Original Author:  David M. O'Donnell;
* * Contributor(s):  David Gilbert (for Object Refinery Limited);
* *
* Changes
* *-------
* 26-Nov-2002 : Version 1 contributed by David M. O'Donnell (DG);
* 14-Jan-2003 : Changed autoRangeMinimumSize from Number --> double (DG);
* 17-Jan-2003 : Moved plot classes to separate package (DG);
* 20-Jan-2003 : Removed unnecessary constructors (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 09-Jul-2003 : Changed ColorBar from extending axis classes to enclosing them (DG);
* 05-Aug-2003 : Applied changes in bug report 780298 (DG);
* 14-Aug-2003 : Implemented Cloneable (DG);
* 08-Sep-2003 : Changed ValueAxis API (DG);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------
* 31-Jan-2007 : Deprecated (DG);
*
*/

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* Original Author: Richard Atkinson;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* -------
* 19-Aug-2002 : Version 1;
* 09-Mar-2005 : Added facility to serve up "one time" charts - see ServletUtilities.java (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 03-Dec-2011 : Fixed path disclosure vulnerability - see bug 2879650 (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.96561260/jfreechart-1-0-19-sources-jar/org/jfree/chart/servlet/DisplayChart.java
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* 
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* Contributor(s): -;
* 
* Changes
* -------
* 20-Oct-2006 : Version 1 (DG);
* 27-Nov-2006 : Added clone() override (DG);
* 20-Feb-2007 : Added getYValue(), getStartYValue() and getEndYValue() 
* methods (DG);
* 18-Jan-2008 : Added removeSeries() and removeAllSeries() methods (DG);
* 22-Apr-2008 : Implemented PublicCloneable (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/data/xy/YIntervalSeriesCollection.java

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 * Contributor(s):  Richard Atkinson;
 *                  Christian W. Zuckschwerdt;
 *
 * Changes:
 * --------
 * 23-May-2002 : Version 1 (DG);
 * 12-Jun-2002 : Added accessor methods and Javadoc comments (DG);
 * 26-Jun-2002 : Added getImageMapAreaTag() method (DG);
 * 05-Aug-2002 : Added new constructor to populate URLText
 *                Moved getImageMapAreaTag() to ChartEntity (superclass) (RA);
 * 03-Oct-2002 : Fixed errors reported by Checkstyle (DG);
 * 30-Jun-2003 : Added XYDataset reference (CZ);
 * 20-May-2004 : Added equals() and clone() methods and implemented
 *                Serializable (DG);
 * 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
 *
 */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/entity/XYItemEntity.java
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* *
* Original Author: Martin Hoeller (x Software + Systeme xS+S - Andreas
* Haumer);
* Contributor(s): David Gilbert (for Object Refinery Limited);
* *
* Changes:
* --------
* 17-Sep-2008: Version 1, based on a contribution from Martin Hoeller with
* amendments by David Gilbert (DG);
* 16-Feb-2010: Added findZBounds() (patch 2952086) (MH);
* 19-Oct-2011: Fixed NPE in findRangeBounds() (bug 3026341) (DG);
* 03-Jul-2013: Use ParamChecks (DG);
* *
* /

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* Changes
* ------
* 23-Sep-2003 : Version 1 (DG);
*
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/axis/TickUnitSource.java
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* Changes
* -------
* 22-Jan-2002 : Version 1 (DG);
* 05-Feb-2002 : Added a new constructor, completed Javadoc comments (DG);
* 05-Mar-2002 : Added a clear() method (DG);
* 23-May-2002 : Renamed DrawInfo --> ChartRenderingInfo (DG);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 17-Sep-2003 : Added PlotRenderingInfo (DG);
* 01-Nov-2005 : Updated equals() method (DG);
* 30-Nov-2005 : Removed get/setPlotArea() (DG);
* ------------ JFREECHART 1.0.x ---------------------------------------------
* 01-Dec-2006 : Fixed equals() and clone() (DG);
* *
* /

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*
* Changes:
* --------
* 31-Oct-2002 : Version 1 (DG);
* 11-Feb-2003 : Fixed bug in getValue(key) method for unrecognised key (DG);
* 05-Mar-2003 : Added methods to sort stored data 'by key' or 'by value' (DG);
* 13-Mar-2003 : Implemented Serializable (DG);
* 08-Apr-2003 : Modified removeValue(Comparable) method to fix bug 717049 (DG);
* 18-Aug-2003 : Implemented Cloneable (DG);
* 27-Aug-2003 : Moved SortOrder from org.jfree.data --> org.jfree.util (DG);
* 09-Feb-2004 : Modified getIndex() method - see bug report 893256 (DG);
* 15-Sep-2004 : Updated clone() method and added PublicCloneable interface (DG);
* 25-Nov-2004 : Small update to the clone() implementation (DG);
* 24-Feb-2005 : Added methods addValue(Comparable, double) and
* setValue(Comparable, double) for convenience (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 31-Jul-2006 : Added a clear() method (DG);
* 01-Aug-2006 : Added argument check to getIndex() method (DG);
* 30-Apr-2007 : Added insertValue() methods (DG);
* 31-Oct-2007 : Performance improvements by using separate lists for keys and
* values (TM);
* 21-Nov-2007 : Fixed bug in removeValue() method from previous patch (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
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 * --------
 * 22-Oct-2004 : Version 1 (DG);
 * 04-Feb-2005 : Added equals() and implemented Serializable (DG);
 * 23-Feb-2005 : Added attribute for border color (DG);
 * 06-May-2005 : Added new convenience constructors (DG);
 * JFREECHART 1.0.x ---------------------------------------------
 * 16-Mar-2007 : Implemented BlockFrame (DG);
 * 02-Jul-2013 : Use ParamChecks (DG);
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/block/BlockBorder.java
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* StandardURLTagFragmentGenerator.java
* Original Author: Richard Atkinson;
* Contributors: David Gilbert (for Object Refinery Limited);
* Changes
* 12-Aug-2003 : Version 1 (RA);
* 04-Dec-2007 : Encode URL text to fix bug 1400917 (DG);
* 13-Dec-2007 : Revert change from 04-Dec-2007 (DG);
* */
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* 
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;
* 
* Changes
* -------
* 10-Jan-2003 : Version 1 (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package (DG);
* 27-Jan-2005 : Implemented Comparable (DG);
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 * Changes
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 * 06-Nov-2006: Version 1 (DG);
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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  -;
 *
 * Changes:
 * --------
 * 25-Jun-2014 : Version 1 (DG);
 *
 */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/fxinteraction/AbstractMouseHandlerFX.java
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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):   -;
*
* Changes (from 24-Aug-2001)
* --------------------------
* 24-Aug-2001 : Added standard source header. Fixed DOS encoding problem (DG);
* 07-Nov-2001 : Updated header (DG);
* 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 14-Oct-2002 : Now extends java.util.EventListener (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/event/ChartChangeListener.java
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* IntervalMarker.java
* *-------------------*

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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;

* Changes
* *
* 20-Aug-2002: Added stroke to constructor in Marker class (DG);
* 02-Oct-2002: Fixed errors reported by Checkstyle (DG);
* 26-Mar-2003: Implemented Serializable (DG);
* ------------------- JFREECHART 1.0.x -------------------------------
* 05-Sep-2006: Added MarkerChangeEvent notification (DG);
* 18-Dec-2007: Added new constructor (DG);

*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/IntervalMarker.java
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* LegendRenderingOrder.java

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* Original Author: Angel;
* Contributor(s): David Gilbert (for Object Refinery Limited);

* Changes
* -------
* 26-Mar-2004 : Version 1 (DG);

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  Mark Watson (www.markwatson.com);
* Jeremy Bowman;
* Richard Atkinson;
* Christian W. Zuckschwerdt;
* Peter Kolb (patch 2497611);
*
* Changes
* ------
* 23-Oct-2001 : Version 1 (DG);
* 15-Nov-2001 : Modified to allow for null data values (DG);
* 16-Jan-2002 : Renamed HorizontalCategoryItemRenderer.java
* --> CategoryItemRenderer.java (DG);
* 05-Feb-2002 : Changed return type of the drawCategoryItem method from void
* to Shape, as part of the tooltips implementation (DG);
* 11-May-2002 : Support for value label drawing (JB);
* 29-May-2002 : Now extends AbstractCategoryItemRenderer (DG);
* 25-Jun-2002 : Removed redundant import (DG);
* 05-Aug-2002 : Small modification to drawCategoryItem method to support URLs
* for HTML image maps (RA);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 11-Oct-2002 : Added new constructor to incorporate tool tip and URL
* generators (DG);
* 24-Oct-2002 : Amendments for changes in CategoryDataset interface and
* CategoryToolTipGenerator interface (DG);
* 05-Nov-2002 : Base dataset is now TableDataset not CategoryDataset (DG);
* 06-Nov-2002 : Renamed drawCategoryItem() --> drawItem() and now using axis
* for category spacing (DG);
* 17-Jan-2003 : Moved plot classes to a separate package (DG);
* 10-Apr-2003 : Changed CategoryDataset to KeyedValues2DDataset in drawItem()
* method (DG);
* 12-May-2003 : Modified to take into account the plot orientation (DG);
* 29-Jul-2003 : Amended code that doesn't compile with JDK 1.2.2 (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 22-Sep-2003 : Fixed cloning (DG);
* 10-Feb-2004 : Small change to drawItem() method to make cut-and-paste
* override easier (DG);
* 16-Jun-2004 : Fixed bug (id=972454) with label positioning on horizontal
* charts (DG);
* 15-Oct-2004 : Updated equals() method (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 11-Nov-2004 : Now uses ShapeUtilities class to translate shapes (DG);
* 27-Jan-2005 : Changed attribute names, modified constructor and removed
* constants (DG);
* 01-Feb-2005 : Removed unnecessary constants (DG);
* 15-Mar-2005 : Fixed bug 1163897, concerning outlines for shapes (DG);
* 13-Apr-2005 : Check flags that control series visibility (DG);
* 20-Apr-2005 : Use generators for legend labels, tooltips and URLs (DG);
* 09-Jun-2005 : Use addItemEntity() method (DG);
* ----------------- JFREECHART 1.0.x -------------------------------
* 25-May-2006 : Added check to drawItem() to detect when both the line and
* the shape are not visible (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
* 17-May-2007 : Set datasetIndex and seriesIndex in getLegendItem() (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 24-Sep-2007 : Deprecated redundant fields/methods (DG);
* 27-Sep-2007 : Added option to offset series x-position within category (DG);
* 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
* 26-Jun-2008 : Added crosshair support (DG);
* 14-Jan-2009 : Added support for seriesVisible flags (PK);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/renderer/category/LineAndShapeRenderer.java
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* --------------------------
* DatasetRenderingOrder.java
* --------------------------
*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes:
* ______
* 02-May-2003 : Version 1 (DG);
* 02-Jun-2004 : Changed 'STANDARD' --> 'FORWARD' (DG);
* 21-Nov-2007 : Implemented hashCode() (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/plot/DatasetRenderingOrder.java
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* --------------------

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* Original Author: Richard Atkinson;
* Contributor(s): -;

* Changes
* ------
* 01-Aug-2004 : Initial version (RA);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);

*/

Found in path(s):
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* Original Author:  David Berry;
* Contributor(s):  David Gilbert (for Object Refinery Limited);
*                 Nicolas Brodu;
*                 
* Changes (from 21-Aug-2001)
* --------------------------
* 21-Aug-2001 : Added standard header (DG);
* 18-Sep-2001 : Updated header (DG);
* 14-Nov-2001 : Package com.jrefinery.common.ui.* changed to
*                com.jrefinery.ui.* (DG);
* 07-Feb-2002 : Changed blank space around title from Insets --> Spacer, to
*                allow for relative or absolute spacing (DG);
* 25-Jun-2002 : Removed unnecessary imports (DG);
* 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 14-Oct-2002 : Changed the event listener storage structure (DG);
* 11-Sep-2003 : Took care of listeners while cloning (NB);
* 22-Sep-2003 : Spacer cannot be null. Added nullpointer checks for this (TM);
* 08-Jan-2003 : Renamed AbstractTitle --> Title and moved to separate
*                package (DG);
* 26-Oct-2004 : Refactored to implement Block interface, and removed redundant
*                constants (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
* release (DG);
* 02-Feb-2005 : Changed Spacer --> RectangleInsets for padding (DG);
* 03-May-2005 : Fixed problem in equals() method (DG);
* 19-Sep-2008 : Added visibility flag (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* */

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 * Changes
 * ------
* 06-Jun-2002 : Version 1 (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 24-Oct-2002 : Added methods to get TimeAllocation by task index (DG);
* 10-Jan-2003 : Renamed GanttSeries --> TaskSeries (DG);
* 30-Jul-2004 : Added equals() method (DG);
* 09-May-2008 : Fixed cloning bug (DG);
* 03-Jul-2013 : Use ParamChecks (DG);

*/

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* Changes
* ------
* 09-Feb-2004 : Version 1 (DG);
* 16-Feb-2005 : Added new constructor (DG);
* 05-Sep-2006 : Added setValue() method (DG);
* 08-Oct-2007 : Fixed bug 1808376, constructor calling super with incorrect
  * values (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.96561260/jfreechart-l-0-19-sources-
  jar/org/jfree/chart/plot/ValueMarker.java
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 */
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* Contributor(s): David Gilbert (for Object Refinery Limited);

* Changes
* ------
* 26-Nov-2002 : Version 1 contributed by David M. O'Donnell (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------
* 31-Jan-2007 : Deprecated (DG);
*
*/

Found in path(s):
/ /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/plot/RainbowPalette.java

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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Peter Kolb (patch 2795746);
* Changes
* -------
* 30-Sep-2002 : Version 1 (DG);
* 18-Aug-2003 : Added 'abstract' (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*               getYValue() (DG);
* 29-May-2009 : Added support for polynomial regression, see patch 2795746
*               by Peter Kolb (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/statistics/Regression.java
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* ------------------------
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*
* Original Authors:  David Gilbert (for Object Refinery Limited);
*                    Sylvain Vieujot;
* Contributor(s):    Richard Atkinson;
*                    Christian W. Zuckschwerdt;
*                    Jerome Fisher;
*
* Changes
* ------
* 13-Dec-2001 : Version 1. Based on code in the (now redundant)
*            CandlestickPlot class, written by Sylvain Vieujot (DG);
* 23-Jan-2002 : Added DrawInfo parameter to drawItem() method (DG);
* 28-Mar-2002 : Added a property change listener mechanism so that renderers
*            no longer need to be immutable. Added properties for up and
*            down colors (DG);
* 04-Apr-2002 : Updated with new automatic width calculation and optional
*            volume display, contributed by Sylvain Vieujot (DG);
* 09-Apr-2002 : Removed translatedRangeZero from the drawItem() method, and
*            changed the return type of the drawItem method to void,
*            reflecting a change in the XYItemRenderer interface. Added
*            tooltip code to drawItem() method (DG);
* 25-Jun-2002 : Removed redundant code (DG);
* 05-Aug-2002 : Small modification to drawItem method to support URLs for HTML
*            image maps (RA);
* 19-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 01-May-2003 : Modified drawItem() method signature (DG);
* 30-Jun-2003 : Added support for PlotOrientation (for completeness, this
*            renderer is unlikely to be used with a HORIZONTAL
*            orientation) (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* 29-Aug-2003 : Moved maxVolume calculation to initialise method (see bug
*            report 796619) (DG);
* 02-Sep-2003 : Added maxCandleWidthInMilliseconds as workaround for bug
*            796621 (DG);
* 08-Sep-2003 : Changed ValueAxis API (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
*            calculations (DG);
* 23-Dec-2003 : Fixed bug where up and down paint are used incorrectly (DG);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*            getYValue() (DG);
* JFREECHART 1.0.x ---------------------------------------------
* 06-Jul-2006 : Swapped calls to getX() --> getXValue(), and the same for the
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/renderer/xy/CandlestickRenderer.java

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* Contributor(s): -;
*
* Changes
* --------
* 27-Mar-2009 : Version 1 (DG);
* *
*/

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 * *
 * Original Author: David Gilbert (for Object Refinery Limited);
 * Contributor(s): -;
* Changes:
* -------
* 10-Jul-2009 : Version 1 (DG);
* 29-Oct-2011 : Fixed Eclipse warnings (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* *
* /

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/util/DefaultShadowGenerator.java
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    * Original Author:  David Gilbert (for Object Refinery Limited);
    * Contributor(s):  Arnaud Lelievre;
    *                 Ulrich Voigt (patch #307);
    * Changes
    * -------
    * 29-Oct-2002 : Added standard header (DG);
    * 07-Nov-2002 : Fixed errors reported by Checkstyle (DG);
    * 26-Mar-2003 : Implemented Serializable (DG);
    ** 19-Aug-2003 : Implemented Cloneable (DG);
* 08-Sep-2003 : Added internationalization via use of properties
  * resourceBundle (RFE 690236) (AL);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 12-Nov-2003 : Implemented zooming (DG);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 26-Jan-2004 : Added domain and range grid lines (DG);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState (DG);
* 29-Sep-2004 : Removed hard-coded color (DG);
* 04-Oct-2004 : Reworked equals() method and renamed ArrayUtils
  * --> ArrayUtilities (DG);
* 12-Nov-2004 : Implemented the new Zoomable interface (DG);
* 05-May-2005 : Updated draw() method parameters (DG);
* 16-Jun-2005 : Added get/setData() methods (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 10-Nov-2006 : Fixed bug 1593150, by not allowing null axes, and added
  * setDomainAxis() and setRangeAxis() methods (DG);
* 24-Sep-2007 : Implemented new zooming methods (DG);
* 25-Mar-2008 : Make use of new fireChangeEvent() method (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
  * Jess Thrysoee (DG);
* 26-Mar-2009 : Implemented Pannable, and fixed bug in zooming (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 21-Jul-2014 : Fix panning (patch #307 by Ulrich Voigt) (DG);
* 29-Jul-2014 : Add rendering hint to normalise stroke for gridlines (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/FastScatterPlot.java

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* *
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* Contributor(s): David Gilbert (for Object Refinery Limited);
* *
* Changes:
* --------
* 25-Sep-2002 : Version 1, contributed by Bryan Scott (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 09-Sep-2003 : Added equals() method (DG);
* 08-Jun-2005 : Implemented Cloneable (DG);
* 22-Nov-2007 : Implemented hashCode() (DG);
* */

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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
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* Changes
* -------
* 01-Jun-2004 : Version 1 (DG);
* 23-Feb-2005 : Replaced Spacer with Insets (DG);
* 01-Mar-2005 : Modified constructors to accept DateFormat (DG);
* 20-May-2005 : Added default constants and null argument checks in the
*               constructor (DG);
* 02-Mar-2009 : Updated createInstance to use locale (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/

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* Changes
* ______
* 19-Oct-2006 : New class, based on XYDataItem (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
* /

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* Changes:
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* 20-Jun-2014 : Version 1 (DG);
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Year.java

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Changes

11-Oct-2001 : Version 1 (DG);
14-Nov-2001 : Override for toString() method (DG);
19-Dec-2001 : Added a new constructor as suggested by Paul English (DG);
29-Jan-2002 : Worked on parseYear() method (DG);
14-Feb-2002 : Fixed bug in Year(Date) constructor (DG);
26-Feb-2002 : Changed getStart(), getMiddle() and getEnd() methods to evaluate with reference to a particular time zone (DG);
19-Mar-2002 : Changed API for TimePeriod classes (DG);
10-Sep-2002 : Added getSerialIndex() method (DG);
04-Oct-2002 : Fixed errors reported by Checkstyle (DG);
10-Jan-2003 : Changed base class and method names (DG);
05-Mar-2003 : Fixed bug in getFirstMillisecond() picked up in JUnit tests (DG);
13-Mar-2003 : Moved to com.jrefinery.data.time package, and implemented Serializable (DG);
21-Oct-2003 : Added hashCode() method (DG);

------------- JFREECHART 1.0.x -------------------------------
05-Oct-2006 : Updated API docs (DG);
06-Oct-2006 : Refactored to cache first and last millisecond values (DG);
16-Sep-2008 : Extended range of valid years, and deprecated DEFAULT_TIME_ZONE (DG);
25-Nov-2008 : Added new constructor with Locale (DG);
05-Jul-2012 : Removed JRE 1.3.1 code (DG);

*/

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* Contributor(s):  David Gilbert (for Object Refinery Limited);
* *
* Changes (from 21-Aug-2001)
* --------------------------
* 29-Mar-2002 : First version (AB);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.xy (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* *
* */

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* Original Author: David Gilbert (for Object Refinery Limited);
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* *
* Changes
* -------
* 15-Apr-2004 : Separated tool tip method from CategoryItemLabelGenerator
* interface (DG);
* *
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/labels/CategoryToolTipGenerator.java
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*
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s): Richard Atkinson;
* Christian W. Zuckschwerdt;
*
* Changes:
* --------
* 23-May-2002 : Version 1 (DG);
* 12-Jun-2002 : Added Javadoc comments (DG);
* 26-Jun-2002 : Added getImageMapAreaTag() method (DG);
* 05-Aug-2002 : Added new constructor to populate URLText
*                  Moved getImageMapAreaTag() to ChartEntity (superclass) (RA);
* 03-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 30-Jul-2003 : Added CategoryDataset reference (CZ);
* 20-May-2004 : Added equals() and clone() methods, and implemented
*                  Serializable (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/entity/CategoryItemEntity.java
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* ---------------------
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* 
* Original Author:  Jelai Wang (jelaiw AT mindspring.com);
* Contributor(s):  David Gilbert (for Object Refinery Limited);
*                 Cameron Hayne;
*                 Rikard Bj?rklind;
*                 Thomas A Caswell (patch 2902842);
* 
* Changes
* ------
* 06-Jul-2003 : Version 1, contributed by Jelai Wang (DG);
* 07-Jul-2003 : Changed package and added Javadoc (DG);
* 15-Oct-2003 : Updated Javadoc and removed array sorting (JW);
* 09-Jan-2004 : Added fix by "Z." posted in the JFreeChart forum (DG);
* 01-Mar-2004 : Added equals() and clone() methods and implemented * Serializable. Also added new addSeries() method (DG);
* 06-May-2004 : Now extends AbstractIntervalXYDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with * getYValue() (DG);
* 20-May-2005 : Speed up binning - see patch 1026151 contributed by Cameron * Hayne (DG);
* 08-Jun-2005 : Fixed bug in getSeriesKey() method (DG);
* 22-Nov-2005 : Fixed cast in getSeriesKey() method - see patch 1329287 (DG);
* ----------- JFREECHART 1.0.x ---------------------------------------------
* 03-Aug-2006 : Improved precision of bin boundary calculation (DG);
* 07-Sep-2006 : Fixed bug 1553088 (DG);
* 22-May-2008 : Implemented clone() method override (DG);
* 08-Dec-2009 : Fire change event in addSeries() - see patch 2902842 * contributed by Thomas A Caswell (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* /

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources- jar/org/jfree/data/statistics/HistogramDataset.java
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*
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* Contributor(s): -;
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* Changes
* -------
* 07-Nov-2003 : Version 1 (DG);
* 07-Jan-2004 : Updated the createLabel() method (DG);
* 29-Jan-2004 : Added paint attribute (DG);
* 21-Mar-2007 : Implemented equals(), clone() and fixed serialization (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* -------
* 17-Nov-2001 : Version 1 (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 19-May-2005 : Changed getSeriesName() --> getSeriesKey() and added indexOf() method (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/data/general/SeriesDataset.java
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 *
* Original Author: David M. O'Donnell;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* ------
* 26-Nov-2002 : Version 1 contributed by David M. O'Donnell (DG);
* 22-Jul-2003 : Made this class abstract as there is no need to instantiate
*               it (DG);
* --------------- JFREECHART 1.0.x ---------------------------------------------
* 31-Jan-2007 : Deprecated (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/plot/ContourPlotUtilities.java
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* Original Author: Thomas Meier;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Changes
* -------
* 04-Apr-2002 : Version 1, translation by Thomas Meier (DG);
* 17-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* */

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* Changes
* -------
* 04-Dec-2006 : Version 1 (DG);
* 10-Jul-2008 : Added accessor methods for xPosition attribute (DG);
* 23-May-2009 : Added hashCode() implementation (DG);
* 26-Jun-2009 : Added removeSeries() methods (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/

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* Changes
* ------
* 23-Jan-2003 : Version 1 (DG);

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*
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* Contributor(s):  David Gilbert (for Object Refinery Limited);
*
* Changes (from 23-Jan-2003)
* --------------------------
* 23-Jan-2003 : Added standard header (DG);
* 17-Jan-2004 : Added methods from DefaultContourDataset that are referenced
*               by ContourPlot. See bug 741048 (DG);
* """"""
* Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
* jar/org/jfree/data/contour/ContourDataset.java
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* Changes
* ------
* 20-Oct-2006: Version 1 (DG);
*
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*
* Original Author: Serge V. Grachov;
* Contributor(s): David Gilbert (for Object Refinery Limited);
  * Tin Luu;
  * Milo Simpson;
  * Richard Atkinson;
  * Rich Unger;
  * Christian W. Zuckschwerdt;
  * DaveLaw (dave ATT davelaw DOTT de) - patch 3204823;

* Changes
* --------
* 31-Oct-2001 : First version, contributed by Serge V. Grachov (DG);
* 15-Nov-2001 : Modified to allow for null data values (DG);
* 13-Dec-2001 : Added tooltips (DG);
* 16-Jan-2002 : Added fix for single category or single series datasets,
  * pointed out by Taoufik Romdhane (DG);
* 24-May-2002 : Incorporated tooltips into chart entities (DG);
* 11-Jun-2002 : Added check for (permitted) null info object, bug and fix
  * reported by David Basten. Also updated Javadocs. (DG);
* 19-Jun-2002 : Added code to draw labels on bars (TL);
* 26-Jun-2002 : Added bar clipping to avoid PRExceptions (DG);
* 05-Aug-2002 : Small modification to drawCategoryItem method to support URLs
  * for HTML image maps (RA);
* 06-Aug-2002 : Value labels now use number formatter, thanks to Milo
  * Simpson (DG);
* 08-Aug-2002 : Applied fixed in bug id 592218 (DG);
* 20-Sep-2002 : Added fix for categoryPaint by Rich Unger, and fixed errors
  * reported by Checkstyle (DG);
* 24-Oct-2002 : Amendments for changes in CategoryDataset interface and
  * CategoryToolTipGenerator interface (DG);
* 05-Nov-2002 : Replaced references to CategoryDataset with TableDataset (DG);
* 06-Nov-2002 : Moved to the com.jrefinery.chart.renderer package (DG);
* 28-Jan-2003 : Added an attribute to control the shading of the left and
  * bottom walls in the plot background (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 10-Apr-2003 : Removed category paint usage (DG);
* 13-May-2003 : Renamed VerticalBarRenderer3D --> BarRenderer3D and merged with
  * HorizontalBarRenderer3D (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 19-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* 07-Oct-2003 : Added renderer state (DG);
* 08-Oct-2003 : Removed clipping (replaced with flag in CategoryPlot to
  * control order in which the data items are processed) (DG);
* 20-Oct-2003 : Fixed bug (outline stroke not being used for bar
  * outlines) (DG);
* 21-Oct-2003 : Bar width moved into CategoryItemRendererState (DG);
* 24-Nov-2003 : Fixed bug 846324 (item labels not showing) (DG);
* 27-Nov-2003 : Added code to respect maxBarWidth setting (DG);
* 02-Feb-2004 : Fixed bug where 'drawBarOutline' flag is not respected (DG);
* 10-Feb-2004 : Small change to drawItem() method to make cut-and-paste overriding easier (DG);
* 04-Oct-2004 : Fixed bug with item label positioning when plot alignment is horizontal (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 20-Apr-2005 : Renamed CategoryLabelGenerator
  --> CategoryItemLabelGenerator (DG);
* 25-Apr-2005 : Override initialise() method to fix bug 1189642 (DG);
* 09-Jun-2005 : Use addEntityItem from super class (DG);
* 07-Dec-2006 : Implemented equals() override (DG);
* 17-Jan-2007 : Fixed bug in drawDomainGridline() method (DG);
* 03-Apr-2007 : Fixed bugs in drawBackground() method (DG);
* 16-Oct-2007 : Fixed bug in range marker drawing (DG);
* 19-Mar-2009 : Override for drawRangeLine() method (DG);
* 11-Jun-2012 : Utilise new PaintAlpha class - patch 3204823 from DaveLaw (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* 11-Mar-2014 : Check visible series (DG);

*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/renderer/category/BarRenderer3D.java
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AbstractXYZDataset.java

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Changes

05-May-2004: Version 1 (DG);
15-Jul-2004: Switched getZ() and getZValue() (DG);

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*  
  09-Dec-2001 : Added standard header (DG);  
*  07-Nov-2001 : Separated the JCommon Class Library classes, JFreeChart now  
  requires jcommon.jar (DG);  
*  09-Jan-2002 : Updated Javadoc comments (DG);  
*  07-Feb-2002 : Changed Insets --> Spacer in AbstractTitle.java (DG);  
*  06-Mar-2002 : Updated import statements (DG);  
*  25-Jun-2002 : Removed redundant imports (DG);  
*  18-Sep-2002 : Fixed errors reported by Checkstyle (DG);  
*  28-Oct-2002 : Small modifications while changing JFreeChart class (DG);  
*  13-Mar-2003 : Changed width used for relative spacing to fix bug 703050 (DG);  
*  26-Mar-2003 : Implemented Serializable (DG);  
*  15-Jul-2003 : Fixed null pointer exception (DG);  
*  11-Sep-2003 : Implemented Cloneable (NB)  
*  22-Sep-2003 : Added checks for null values and throw nullpointer  
  exceptions (TM);  
  Background paint was not serialized.  
*  07-Oct-2003 : Added fix for exception caused by empty string in title (DG);  
*  29-Oct-2003 : Added workaround for text alignment in PDF output (DG);  
*  03-Feb-2004 : Fixed bug in getPreferredSize() method (DG);  
*  17-Feb-2004 : Added clone() method and fixed bug in equals() method (DG);  
*  01-Apr-2004 : Changed java.awt.geom.Dimension2D to org.jfree.ui.Size2D  
  because of JDK bug 4976448 which persists on JDK 1.3.1. Also  
  fixed bug in getPreferredSize() method (DG);  
*  29-Apr-2004 : Fixed bug in getPreferredSize() method - see bug id  
  944173 (DG);  
*  11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0  
  release (DG);  
*  08-Feb-2005 : Updated for changes in RectangleConstraint class (DG);  
*  11-Feb-2005 : Implemented PublicCloneable (DG);  
*  20-Apr-2005 : Added support for tooltips (DG);  
*  26-Apr-2005 : Removed LOGGER (DG);  
*  06-Jun-2005 : Modified equals() to handle GradientPaint (DG);  
*  06-Jul-2005 : Added flag to control whether or not the title expands to  


fit the available space (DG);
* 07-Oct-2005 : Added textAlignment attribute (DG);
* -------------- JFREECHART 1.0.x RELEASED -----------------------------
* 13-Dec-2005 : Fixed bug 1379331 - incorrect drawing with LEFT or RIGHT
* title placement (DG);
* 19-Dec-2007 : Implemented some of the missing arrangement options (DG);
* 28-Apr-2008 : Added option for maximum lines, and fixed minor bugs in 
* equals() method (DG);
* 19-Mar-2009 : Changed ChartEntity to TitleEntity - see patch 2603321 by 
* Peter Kolb (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/title/TextTitle.java
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* 
* Original Author: David Browning (for Australian Institute of Marine Science);
* Contributor(s): David Gilbert (for Object Refinery Limited);
* 
* Changes
* -------
* 05-Aug-2003 : Version 1, contributed by David Browning. Based on code in the CandlestickRenderer class. Additional modifications by David Gilbert to make the code work with 0.9.10 changes (DG);
* 08-Aug-2003 : Updated some of the Javadoc
*   Allowed BoxAndwhiskerDataset Average value to be null - the average value is an AIMS requirement
*   Allow the outlier and farout coefficients to be set - though at the moment this only affects the calculation of farouts.
*   Added artifactPaint variable and setter/getter
* 12-Aug-2003  Rewrote code to sort out and process outliers to take advantage of changes in DefaultBoxAndWhiskerDataset
*   Added a limit of 10% for width of box should no width be specified...maybe this should be setable???
* 20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* 08-Sep-2003 : Changed ValueAxis API (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState (DG);
* 23-Apr-2004 : Added fillBox attribute, extended equals() method and fixed serialization issue (DG);
* 29-Apr-2004 : Fixed problem with drawing upper and lower shadows - bug id 944011 (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with getYValue() (DG);
* 01-Oct-2004 : Renamed 'paint' --> 'boxPaint' to avoid conflict with inherited attribute (DG);
* 10-Jun-2005 : Updated equals() to handle GradientPaint (DG);
* 06-Oct-2005 : Removed setPaint() call in drawItem(), it is causing a loop (DG);
* -------------- JFREECHART 1.0.x -------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* 05-Feb-2007 : Added event notifications and fixed drawing for horizontal plot orientation (DG);
* 13-Jun-2007 : Replaced deprecated method call (DG);
* 03-Jan-2008 : Check visibility of average marker before drawing it (DG);
* 27-Mar-2008 : If boxPaint is null, revert to itemPaint (DG);
* 27-Mar-2009 : Added findRangeBounds() method override (DG);
* 08-Dec-2009 : Fix for bug 2909215, NullPointerException for null outliers (DG);
* */
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 * Original Author: David Gilbert (for Object Refinery Limited);
 * Contributor(s): -;
 *
 * Changes
 * -------
 * 21-Jan-2003 : Added standard header, and renamed DefaultCategoryDataset (DG);
 * 13-Mar-2003 : Inserted DefaultKeyedValues2DDataset into class hierarchy (DG);
 * 06-Oct-2003 : Added incrementValue() method (DG);
 * 05-Apr-2004 : Added clear() method (DG);
 * 18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.category (DG);
 */
* 26-Feb-2007 : Updated API docs (DG);
* 08-Mar-2007 : Implemented clone() (DG);
* 09-May-2008 : Implemented PublicCloneable (DG);
*
*/

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 * *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  Nicolas Brodu;
 * *
 * Changes
 * *
 * 20-May-2005 : Version 1 (DG);
* 19-Aug-2005: Implemented equals(), fixed bug in constructor (DG);
* ----------------- JFREECHART 1.0.x -------------------------------
* 05-Sep-2006: Added MarkerChangeListener support (DG);
* 02-Jul-2013: Use ParamChecks (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/CategoryMarker.java
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* Original Author: David Gilbert (for Object Refinery Limited);
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* Changes
* ------
* 30-Jan-2007 : Version 1 (DG);
* 24-May-2007 : Updated for method name changes (DG);
* 25-May-2007 : Moved from experimental to the main source tree (DG);
* 18-Feb-2008 : Fixed bug 1880114, arrows for horizontal plot
  * orientation (DG);
* 22-Apr-2008 : Implemented PublicCloneable (DG);
* 26-Sep-2008 : Added chart entity support (tooltips etc) (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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*
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  * Rob Eden;
  *
* Changes
* --------
* 01-Apr-2004 : Version 1 (AS);
* 05-May-2004 : Now implements AbstractIntervalXYDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
  * getYValue() (DG);
* 15-Sep-2004 : Added getXPosition(), setXPosition(), equals() and
  * clone() (DG);
* 17-Nov-2004 : Updated methods for changes in DomainInfo interface (DG);
* 25-Nov-2004 : Added getTimePeriod(int) method (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
  * release (DG);
* 27-Jan-2005 : Modified to use TimePeriod rather than RegularTimePeriod (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 25-Jul-2007 : Added clear() method by Rob Eden, see patch 1752205 (DG);
* 04-Jun-2008 : Updated Javadocs (DG);
* 26-May-2009 : Peg to time zone if RegularTimePeriod is used (DG);
* 02-Nov-2009 : Changed String to Comparable in add methods (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/time/TimeTableXYDataset.java
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TaskSeriesCollection.java

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Changes

06-Jun-2002 : Version 1 (DG);
07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
24-Oct-2002 : Amendments for changes in CategoryDataset interface and CategoryToolTipGenerator interface (DG);
10-Jan-2003 : Renamed GanttSeriesCollection --> TaskSeriesCollection (DG);
04-Sep-2003 : Fixed bug 800324 (DG);
16-Sep-2003 : Implemented GanttCategoryDataset (DG);
12-Jan-2005 : Fixed bug 1099331 (DG);
18-Jan-2006 : Added new methods getSeries(int) and getSeries(Comparable) (DG);
09-May-2008 : Fixed cloning bug (DG);
03-Jul-2013 : Use ParamChecks (DG);

*/

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* -----------
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*
* Changes
* --------
* 03-Nov-2006 : Version 1 (DG);
* 08-Mar-2007 : Fix in hashCode() (DG);
* 17-Oct-2007 : Fixed listener registration/deregistration bugs (DG);
* 24-Oct-2007 : Maintain pointers in their own list, so they can be
*               drawn after other layers (DG);
* 15-Feb-2008 : Fixed clipping bug (1873160) (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* *
* /

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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Contributor(s): -;

Changes
-------
03-Nov-2003 : Added standard header (DG);
07-Nov-2003 : Added 'max' attribute (DG);

*/

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*  
* Changes
* -------
* 03-Nov-2006: Version 1 (DG);
* 08-Mar-2007: Fix in hashCode() (DG);
* 29-Oct-2007: Renamed StandardDialFrame (DG);
* 03-Jul-2013: Use ParamChecks (DG);
*  
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*
* ----------------------------
* DataPackageResources_ru.java
* ----------------------------
*
* Original Author: Sergey Bondarenko;
* Contributor(s): -;
*
* Changes
* -------
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* */

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Changes
-------
03-Nov-2006 : Version 1 (DG);
17-Oct-2007 : Added equals() overrides (DG);
24-Oct-2007 : Implemented PublicCloneable, changed default radius,
and added argument checks (DG);
23-Nov-2007 : Added fillPaint and outlinePaint attributes to
DialPointer.Pointer (DG);
03-Jul-2013 : Use ParamChecks (DG);

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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Richard Atkinson;
* Focus Computer Services Limited;
* Tim Bardzil;
* Sergei Ivanov;
* Peter Kolb (patch 2809117);
* Martin Krauskopf;
*
* Changes:
* --------
* 15-Mar-2002 : Version 1 (DG);
* 09-Apr-2002 : Added a getToolTipGenerator() method reflecting the change in
* the XYItemRenderer interface (DG);
* 05-Aug-2002 : Added a urlGenerator member variable to support HTML image
* maps (RA);
* 20-Aug-2002 : Added property change events for the tooltip and URL
* generators (DG);
* 22-Aug-2002 : Moved property change support into AbstractRenderer class (DG);
* 23-Sep-2002 : Fixed errors reported by Checkstyle tool (DG);
* 18-Nov-2002 : Added methods for drawing grid lines (DG);
* 17-Jan-2003 : Moved plot classes into a separate package (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 01-May-2003 : Modified initialise() return type and drawItem() method
* signature (DG);
* 15-May-2003 : Modified to take into account the plot orientation (DG);
* 21-May-2003 : Added labels to markers (DG);
* 05-Jun-2003 : Added domain and range grid bands (sponsored by Focus Computer
* 27-Jul-2003 : Added getRangeType() to support stacked XY area charts (RA);
* 31-Jul-2003 : Deprecated all but the default constructor (DG);
* 13-Aug-2003 : Implemented Cloneable (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 29-Oct-2003 : Added workaround for font alignment in PDF output (DG);
* 05-Nov-2003 : Fixed marker rendering bug (833623) (DG);
* 11-Feb-2004 : Updated labelling for markers (DG);
* 25-Feb-2004 : Added updateCrosshairValues() method. Moved deprecated code to bottom of source file (DG);
* 16-Apr-2004 : Added support for IntervalMarker in drawRangeMarker() method - thanks to Tim Bardzil (DG);
* 05-May-2004 : Fixed bug (948310) where interval markers extend beyond axis range (DG);
* 03-Jun-2004 : Fixed more bugs in drawing interval markers (DG);
* 26-Aug-2004 : Added the addEntity() method (DG);
* 29-Sep-2004 : Added annotation support (with layers) (DG);
* 30-Sep-2004 : Moved drawRotatedString() from RefineryUtilities --> TextUtilities (DG);
* 06-Oct-2004 : Added findDomainBounds() method and renamed getRangeExtent() --> findRangeBounds() (DG);
* 07-Jan-2005 : Removed deprecated code (DG);
* 27-Jan-2005 : Modified getLegendItem() to omit hidden series (DG);
* 24-Feb-2005 : Added getLegendItems() method (DG);
* 08-Mar-2005 : Fixed positioning of marker labels (DG);
* 20-Apr-2005 : Renamed XYLabelGenerator --> XYItemLabelGenerator and added generators for legend labels, tooltips and URLs (DG);
* 01-Jun-2005 : Handle one dimension of the marker label adjustment automatically (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 20-Jul-2006 : Set dataset and series indices in LegendItem (DG);
* 24-Oct-2006 : Respect alpha setting in markers (see patch 1567843 by Sergei Ivanov) (DG);
* 24-Oct-2006 : Added code to draw outlines for interval markers (DG);
* 24-Nov-2006 : Fixed cloning for legend item generators (DG);
* 06-Feb-2007 : Added new updateCrosshairValues() method that takes into account multiple axis plots (see bug 1086307) (DG);
* 20-Feb-2007 : Fixed equals() method implementation (DG);
* 01-Mar-2007 : Fixed interval marker drawing (patch 1670686 thanks to Sergei Ivanov) (DG);
* 22-Mar-2007 : Modified the tooltip generator look up (DG);
* 23-Mar-2007 : Added drawDomainLine() method (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change, and deprecated itemLabelGenerator and toolTipGenerator override fields (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 12-Nov-2007 : Fixed domain and range band drawing methods (DG);
* 07-Apr-2008 : Minor API doc update (DG);
* 14-May-2008 : Updated addEntity() method to take plot orientation into
account when the incoming area is null (DG);
* 02-Jun-2008 : Added isPointInRect() method (DG);
* 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
* 09-Mar-2009 : Added getAnnotations() method (DG);
* 27-Mar-2009 : Added new findDomainBounds() and findRangeBounds() methods to
               take account of hidden series (DG);
* 01-Apr-2009 : Moved defaultEntityRadius up to superclass (DG);
* 28-Apr-2009 : Updated getLegendItem() method to observe new 'treatLegendShapeAsLine' flag (DG);
* 24-Jun-2009 : Added support for annotation events - see patch 2809117
               by PK (DG);
* 01-Sep-2009 : Bug 2840132 - set renderer index when drawing
               annotations (DG);
* 06-Oct-2011 : Add utility methods to work with 1.4 API in GeneralPath (MK)
* 03-Jul-2013 : Use ParamChecks (DG);
* 11-Jan-2014 : Fix error in fillDomainGridBand method (DG);
* 07-Apr-2014 : Don't use ObjectList anymore (DG);
* 29-Jul-2014 : Add rendering hint to normalise domain and range lines (DG);
* /

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/renderer/xy/AbstractXYItemRenderer.java
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 * XYInterval.java
 * ---------------
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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):   -;
 *
 * Changes
 * -------
 * 20-Oct-2006 : Version 1 (DG);
 *
 */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/data/xy/XYInterval.java

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* ------------------
(C) Copyright 2005-2014, by Heaps of Flavour Pty Ltd and Contributors.
* Company Info: http://www.i4-talent.com
* Original Author: Don Elliott;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Nina Jeliazkova;
* Changes
* ------
* 28-Jan-2005 : First cut - missing a few features - still to do:
* - needs tooltips/URL/label generator functions
* - ticks on axes / background grid?
* 31-Jan-2005 : Renamed SpiderWebPlot, added label generator support, and
* reformatted for consistency with other source files in
* JFreeChart (DG);
* 20-Apr-2005 : Renamed CategoryLabelGenerator
* --> CategoryItemLabelGenerator (DG);
* 05-May-2005 : Updated draw() method parameters (DG);
* 10-Jun-2005 : Added equals() method and fixed serialization (DG);
* 16-Jun-2005 : Added default constructor and get/setDataset() method (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 05-Apr-2006 : Fixed bug preventing the display of zero values - see patch
* 1462727 (DG);
* 05-Apr-2006 : Added support for mouse clicks, tool tips and URLs - see patch
* 1463455 (DG);
* 01-Jun-2006 : Fix bug 1493199, NullPointerException when drawing with null
* info (DG);
* 05-Feb-2007 : Added attributes for axis stroke and paint, while fixing
* bug 1651277, and implemented clone() properly (DG);
* 06-Feb-2007 : Changed getPlotValue() to protected, as suggested in bug
* 1605202 (DG);
* 05-Mar-2007 : Restore clip region correctly (see bug 1667750) (DG);
* 18-May-2007 : Set dataset for LegendItem (DG);
* 02-Jun-2008 : Fixed bug with chart entities using TableOrder.BY_COLUMN (DG);
* 02-Jun-2008 : Fixed bug with null dataset (DG);
* 01-Jun-2009 : Set series key in getLegendItems() (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*/

Found in path(s):
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jar/org/jfree/chart/plot/SpiderWebPlot.java
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 * =========
 * DateRange.java
 * =========
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 * (C) Copyright 2002-2008, by Object Refinery Limited and Contributors.
 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  Bill Kelemen;
 *
 * Changes
 * -------
 * 22-Apr-2002 : Version 1 based on code by Bill Kelemen (DG);
 * 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
 * 23-Sep-2003 : Minor Javadoc update (DG);
 * 28-May-2008 : Fixed problem with immutability (DG);
 * 01-Sep-2008 : Added getLowerMillis() and getUpperMillis() (DG);
 *
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 *
 * -------------------
 * ChartUtilities.java
 * -------------------
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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  Wolfgang Irler;
 * Richard Atkinson;
 * Xavier Poinsard;
 *
 * Changes
 * ------
 * 11-Dec-2001 : Version 1. The JPEG method comes from Wolfgang Irler's
 * JFreeChartServletDemo class (DG);
 * 23-Jan-2002 : Changed saveChartAsXXX() methods to pass IOExceptions back to
 * caller (DG);
 * 26-Jun-2002 : Added image map methods (DG);
 * 05-Aug-2002 : Added writeBufferedImage methods
* Modified writeImageMap method to support flexible image maps (RA);
* 26-Aug-2002 : Added saveChartAsJPEG and writeChartAsJPEG methods with info objects (RA);
* 05-Sep-2002 : Added writeImageMap() method to support OverLIB - http://www.bosrup.com/web/overlib (RA);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 17-Oct-2002 : Exposed JPEG quality setting and PNG compression level as parameters (DG);
* 25-Oct-2002 : Fixed writeChartAsJPEG() empty method bug (DG);
* 13-Mar-2003 : Updated writeImageMap method as suggested by Xavier Poinsard (see Feature Request 688079) (DG);
* 12-Aug-2003 : Added support for custom image maps using ToolTipTagFragmentGenerator and URLTagFragmentGenerator (RA);
* 02-Sep-2003 : Separated PNG encoding from writing chart to an OutputStream (RA);
* 04-Dec-2003 : Chart draw() method modified to include anchor point (DG);
* 20-Feb-2004 : Edited Javadocs and added argument checking (DG);
* 05-Apr-2004 : Fixed problem with buffered image type (DG);
* 01-Aug-2004 : Modified to use EncoderUtil for all image encoding (RA);
* 02-Aug-2004 : Delegated image map related functionality to ImageMapUtil (RA);
* 13-Jan-2005 : Renamed ImageMapUtil --> ImageMapUtilities, removed method writeImageMap(PrintWriter, String, ChartRenderingInfo) which exists in ImageMapUtilities (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 06-Feb-2006 : API doc update (DG);
* 19-Mar-2007 : Use try-finally to close output stream in saveChartAsXXX() methods (DG);
* 10-Jan-2008 : Fix bug 1868251 - don't create image with transparency when saving to JPEG format (DG);
* 02-Jul-2013 : Use ParamChecks class (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/ChartUtilities.java
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* -----------------------
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* -------
* 03-Dec-2003 : Version 1 (DG);
* 05-May-2004 : Now extends AbstractXYDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
*               getYValue() (DG);
* 29-Apr-2005 : Added equals() method (DG);
* 22-Apr-2008 : Implemented PublicCloneable, and fixed cloning bug (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/xy/DefaultOHLCDataset.java
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CustomPieURLGenerator.java

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Original Author:  David Basten;
Contributors:     -;

Changes:
--------
04-Feb-2004 : Version 1, contributed by David Basten based on
          CustomXYURLGenerator by Richard Atkinson (added to main source
tree on 25-May-2004);

*/

Found in path(s):
*/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/urls/CustomPieURLGenerator.java

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* Changes
* -------
* 05-Sep-2006 : Version 1 (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* 
* Changes (from 22-Jun-2001)
* --------------------------
* 22-Jun-2001 : Changed Title to AbstractTitle while incorporating
* David Berry's changes (DG);
* 24-Aug-2001 : Fixed DOS encoding problem (DG);
* 07-Nov-2001 : Updated header (DG);
* 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 08-Jan-2004 : Renamed AbstractTitle --> Title and moved to new package (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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*
* Changes
* -------
* 11-Oct-2001 : Version 1 (DG);
* 18-Dec-2001 : Changed order of parameters in constructor (DG);
* 19-Dec-2001 : Added a new constructor as suggested by Paul English (DG);
* 14-Feb-2002 : Fixed bug in Second(Date) constructor, and changed start of
* range to zero from one (DG);
* 26-Feb-2002 : Changed getStart(), getMiddle() and getEnd() methods to
* evaluate with reference to a particular time zone (DG);
* 13-Mar-2002 : Added parseSecond() method (DG);
* 10-Sep-2002 : Added getSerialIndex() method (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 10-Jan-2003 : Changed base class and method names (DG);
* 05-Mar-2003 : Fixed bug in getLastMillisecond() picked up in JUnit
* tests (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package and implemented
* Serializable (DG);
* 21-Oct-2003 : Added hashCode() method (DG);
* ------------ JFREECHART 1.0.x ---------------------------------------------
* 05-Oct-2006 : Updated API docs (DG);
* 06-Oct-2006 : Refactored to cache first and last millisecond values (DG);
* 16-Sep-2008 : Deprecated DEFAULT_TIME_ZONE (DG);
* 02-Mar-2009 : Added new constructor with Locale (DG);
* 05-Jul-2012 : Replaced getTime().getTime() with getTimeInMillis() (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

Found in path(s):
* /opt/cola/permissions/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* *
* Original Author:  David Berry;
* Contributor(s):  David Gilbert (for Object Refinery Limited);
* *
* Changes (from 18-Sep-2001)
* --------------------------
* 18-Sep-2001 : Added standard header (DG);
* 07-Nov-2001 : Separated the JCommon Class Library classes, JFreeChart now
* requires jcommon.jar (DG);
* 09-Jan-2002 : Updated Javadoc comments (DG);
* 07-Feb-2002 : Changed blank space around title from Insets --> Spacer, to
  allow for relative or absolute spacing (DG);
* 25-Jun-2002 : Updated import statements (DG);
* 23-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 26-Nov-2002 : Added method for drawing images at left or right (DG);
* 22-Sep-2003 : Added checks that the Image can never be null (TM).
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
  release (DG);
* 02-Feb-2005 : Changed padding mechanism for all titles (DG);
* 20-Apr-2005 : Added new draw() method (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 11-Apr-2008 : Added arrange() method override to account for margin, border
  and padding (DG);
* 21-Apr-2008 : Added equals() method override (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/title/ImageTitle.java

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*
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;
*
* Changes
* -------
* 27-Mar-2009 : Version 1 (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/data/category/CategoryRangeInfo.java
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* 
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* 
* Changes:
* ------------------
* 08-Nov-2001 : Version 1 (DG);
* 23-Oct-2002 : Renamed getValueCount --> getItemCount (DG);
* ------------------ JFREECHART 1.0.x ---------------------------------------------
* 02-May-2006 : Updated API docs (DG);
* 
* */

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* --------------
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* Original Author: Tomer Peretz;
* Contributor(s): Richard Atkinson;
* David Gilbert (for Object Refinery Limited);
* Xun Kang;
* Christian W. Zuckschwerdt;
* Arnaud Lelievre;
* Dave Crane;
* Martin Hoeller;
* DaveLaw (dave ATT davelaw DOTT de);
*
* Changes
* -------
* 21-Jun-2002 : Version 1;
* 31-Jul-2002 : Modified to use startAngle and direction, drawing modified so
* that charts render with foreground alpha < 1.0 (DG);
* 05-Aug-2002 : Small modification to draw method to support URLs for HTML
* image maps (RA);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 18-Oct-2002 : Added drawing bug fix sent in by Xun Kang, and made a couple
* of other related fixes (DG);
* 30-Oct-2002 : Changed the PieDataset interface. Fixed another drawing
* bug (DG);
* 12-Nov-2002 : Fixed null pointer exception for zero or negative values (DG);
* 07-Mar-2003 : Added workaround for bug id 620031 (DG);
* 08-Sep-2003 : Added internationalization via use of properties
* resourceBundle (RFE 690236) (AL);
* 29-Oct-2003 : Added workaround for font alignment in PDF output (DG);
* 20-Nov-2003 : Fixed bug 845289 (sides not showing) (DG);
* 25-Nov-2003 : Added patch (845095) to fix outline paint issues (DG);
* 10-Mar-2004 : Numerous changes to enhance labelling (DG);
* 31-Mar-2004 : Adjusted plot area when label generator is null (DG);
* 08-Apr-2004 : Added flag to PiePlot class to control the treatment of null
* values (DG);
* Added pieIndex to PieSectionEntity (DG);
* 15-Nov-2004 : Removed creation of default tool tip generator (DG);
* 16-Jun-2005 : Added default constructor (DG);
* Preserve JFREECHART 1.0.x ---------------------------------------------
* 27-Sep-2006 : Updated draw() method for new lookup methods (DG);
* 22-Mar-2007 : Added equals() override (DG);
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Richard Atkinson;
* Peter Kolb (patch 2497611);
*
* Changes:
* --------
* 29-May-2002 : Version 1 (DG);
* 06-Jun-2002 : Added accessor methods for the tool tip generator (DG);
* 11-Jun-2002 : Made constructors protected (DG);
* 26-Jun-2002 : Added axis to initialise method (DG);
* 05-Aug-2002 : Added urlGenerator member variable plus accessors (RA);
* 22-Aug-2002 : Added categoriesPaint attribute, based on code submitted by
  Janet Banks. This can be used when there is only one series,
  and you want each category item to have a different color (DG);
* 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 29-Oct-2002 : Fixed bug where background image for plot was not being
  drawn (DG);
* 05-Nov-2002 : Replaced references to CategoryDataset with TableDataset (DG);
* 26-Nov 2002 : Replaced the isStacked() method with getRangeType() (DG);
* 09-Jan-2003 : Renamed grid-line methods (DG);
* 17-Jan-2003 : Moved plot classes into separate package (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 12-May-2003 : Modified to take into account the plot orientation (DG);
* 12-Aug-2003 : Very minor javadoc corrections (DB)
* 13-Aug-2003 : Implemented Cloneable (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 05-Nov-2003 : Fixed marker rendering bug (833623) (DG);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 11-Feb-2004 : Modified labelling for markers (DG);
* 12-Feb-2004 : Updated clone() method (DG);
* 15-Apr-2004 : Created a new CategoryToolTipGenerator interface (DG);
* 05-May-2004 : Fixed bug (948310) where interval markers extend outside axis
  range (DG);
* 14-Jun-2004 : Fixed bug in drawRangeMarker() method - now uses 'paint' and
  'stroke' rather than 'outlinePaint' and 'outlineStroke' (DG);
* 15-Jun-2004 : Interval markers can now use GradientPaint (DG);
* 30-Sep-2004 : Moved drawRotatedString() from RefineryUtilities
  --> TextUtilities (DG);
* 01-Oct-2004 : Fixed bug 1029697, problem with label alignment in
  drawRangeMarker() method (DG);
* 07-Jan-2005 : Renamed getRangeExtent() --> findRangeBounds() (DG);
* 21-Jan-2005 : Modified return type of calculateRangeMarkerTextAnchorPoint() method (DG);
* 08-Mar-2005 : Fixed positioning of marker labels (DG);
* 20-Apr-2005 : Added legend label, tooltip and URL generators (DG);
* 01-Jun-2005 : Handle one dimension of the marker label adjustment automatically (DG);
* 09-Jun-2005 : Added utility method for adding an item entity (DG);
* 01-Mar-2006 : Updated getLegendItems() to check seriesVisibleInLegend flags (DG);
* 20-Jul-2006 : Set dataset and series indices in LegendItem (DG);
* 23-Oct-2006 : Draw outlines for interval markers (DG);
* 24-Oct-2006 : Respect alpha setting in markers, as suggested by Sergei Ivanov in patch 1567843 (DG);
* 30-Nov-2006 : Added a check for series visibility in the getLegendItem() method (DG);
* 07-Dec-2006 : Fix for equals() method (DG);
* 22-Feb-2007 : Added createState() method (DG);
* 01-Mar-2007 : Fixed interval marker drawing (patch 1670686 thanks to Sergei Ivanov) (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change, and deprecated itemLabelGenerator, toolTipGenerator and itemURLGenerator override fields (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
* 26-Jun-2008 : Added crosshair support (DG);
* 25-Nov-2008 : Fixed bug in findRangeBounds() method (DG);
* 14-Jan-2009 : Update initialise() to store visible series indices (PK);
* 21-Jan-2009 : Added drawRangeLine() method (DG);
* 27-Mar-2009 : Added new findRangeBounds() method to account for hidden series (DG);
* 01-Apr-2009 : Added new addEntity() method (DG);
* 09-Feb-2010 : Fixed bug 2947660 (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 08-Apr-2014 : Remove use of ObjectList (DG);
* 29-Jul-2014 : Add rendering hints to normalise range lines (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1.0.19-sources.jar/org/jfree/chart/renderer/category/AbstractCategoryItemRenderer.java
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* ---------------------
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*
* Original Author: Achilleus Mantzios;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* -------
* 06-Feb-2002 : Version 1, based on code contributed by Achilleus
* Mantzios (DG);
* 28-Mar-2002 : Added a property change listener mechanism so that renderers
* no longer need to be immutable. Changed StrictMath --> Math
* to retain JDK1.2 compatibility (DG);
* 09-Apr-2002 : Changed return type of the drawItem method to void, reflecting
* the change in the XYItemRenderer method (DG);
* 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 21-Jan-2003 : Added new constructor (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 01-May-2003 : Modified drawItem() method signature (DG);
* 20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState (DG);
* 15-Jul-2004 : Swiched getX() with getXValue() and getY() with
* getYValue() (DG);
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
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 * Contributor(s):  -;
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 * Changes
 * --------
 * 19-Mar-2002 : Version 1, based on original Millisecond implementation (DG);
 * 24-Jun-2002 : Removed unnecessary imports (DG);
 * 10-Sep-2002 : Added getSerialIndex() method (DG);
 * 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
 * 13-Mar-2003 : Moved to com.jrefinery.data.time package and implemented
 *               Serializable (DG);
 * 21-Oct-2003 : Added hashCode() method (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 06-Oct-2006 : Added peg() method (DG);
* 28-May-2008 : Fixed immutability problem (DG);
*
*/

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 * -------
 *
 * Day.java
 *
 * -------
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 * Changes
 *
 * -------
 *
 * 11-Oct-2001 : Version 1 (DG);
* 15-Nov-2001 : Updated Javadoc comments (DG);
* 04-Dec-2001 : Added static method to parse a string into a Day object (DG);
* 19-Dec-2001 : Added new constructor as suggested by Paul English (DG);
* 29-Jan-2002 : Changed getDay() method to getSerialDate() (DG);
* 26-Feb-2002 : Changed getStart(), getMiddle() and getEnd() methods to
  * evaluate with reference to a particular time zone (DG);
* 19-Mar-2002 : Changed the API for the TimePeriod classes (DG);
* 29-May-2002 : Fixed bug in equals method (DG);
* 24-Jun-2002 : Removed unnecessary imports (DG);
* 10-Sep-2002 : Added getSerialIndex() method (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 10-Jan-2003 : Changed base class and method names (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package, and implemented
  * Serializable (DG);
* 21-Oct-2003 : Added hashCode() method (DG);
* 30-Sep-2004 : Replaced getTime().getTime() with getTimeInMillis() (DG);
* 04-Nov-2004 : Reverted change of 30-Sep-2004, because it won't work for
  * JDK 1.3 (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 05-Oct-2006 : Updated API docs (DG);
* 06-Oct-2006 : Refactored to cache first and last millisecond values (DG);
* 16-Sep-2008 : Deprecated DEFAULT_TIME_ZONE (DG);
* 02-Mar-2009 : Added new constructor with Locale (DG);
* 05-Jul-2012 : Replaced getTime().getTime() with getTimeInMillis() (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

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*
* Changes
* -------
* 20-Oct-2006 : Version 1 (DG);
*
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*
* Original Author:  Bill Kelemen;
* Contributor(s):  Sylvain Vieujot;
*                   David Gilbert (for Object Refinery Limited);
*
* Changes
* 06-Dec-2001 : Version 1 (BK);
* 05-Feb-2002 : Added SignalsDataset (and small change to HighLowDataset
* interface) as requested by Sylvain Vieujot (DG);
* 28-Feb-2002 : Fixed bug: missing map[series] in IntervalXYDataset and
* SignalsDataset methods (BK);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 06-May-2004 : Now extends AbstractIntervalXYDataset (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
* getYValue() (DG);
* 29-Nov-2005 : Removed SignalsDataset (DG);
* ------------ JFREECHART 1.0.x -------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* 04-Feb-2009 : Deprecated, this class won't be supported in version
* 1.2.0 (DG);
*
*/

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* Changes
* ------
* 16-Sep-2003 : Version 1 (DG);
* 23-Sep-2003 : Fixed Checkstyle issues (DG);
* 21-Oct-2003 : Bar width moved into CategoryItemRendererState (DG);
* 03-Feb-2004 : Added get/set methods for attributes (DG);
* 12-Aug-2004 : Fixed rendering problem with maxBarWidth attribute (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 20-Apr-2005 : Renamed CategoryLabelGenerator
* ----> CategoryItemLabelGenerator (DG);
* 01-Dec-2005 : Fix for bug 1369954, drawBarOutline flag ignored (DG);
* ---------------- JFREECHART 1.0.x ------------------------------------------
* 17-Jan-2006 : Set includeBaseInRange flag to false (DG);
* 20-Mar-2007 : Implemented equals() and fixed serialization (DG);
* 24-Jun-2008 : Added new barPainter mechanism (DG);
* 26-Jun-2008 : Added crosshair support (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* /
*
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* jar/org/jfree/chart/renderer/category/GanttRenderer.java
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 *
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 * Contributor(s):   -;
 *
 * Changes:
 * --------
 * 02-May-2003 : Version 1 (DG);
 * 17-Jul-2003 : Added readResolve() method (DG);
 * 21-Nov-2007 : Implemented hashCode() (DG);
 * 14-May-2014 : Added isHorizontal() and isVertical() methods (DG);
 *
 */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/PlotOrientation.java

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*
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;
*
* Changes
* ------
* 11-May-2004 : Version 1, split from IntervalCategoryItemLabelGenerator (DG);
* 08-Oct-2008 : Override equals() method (DG);
*
*/

Found in path(s):
*/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/IntervalCategoryToolTipGenerator.java
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*
* Original Author: Barak Naveh;
* Contributor(s):  David Gilbert (for Object Refinery Limited);
*                  Zhitao Wang;
*
* Changes
* ------
* 10-Jul-2003 : Version 1 contributed by Barak Naveh (DG);
* 10-Feb-2004 : Fixed Checkstyle complaints (DG);
* 21-May-2004 : Fixed bug 940188 - problem in getItemColumn() and
*                getItemRow() (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 27-Nov-2006 : Fixed bug in equals() method (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1.0-19-sources-  
  jar/org/jfree/data/xy/MatrixSeries.java
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* 
* Changes
* ------
* 08-Apr-2014 : Version 1 (DG);
* 
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* Contributor(s): Nicolas Brodu;
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* Changes
* ------
* 02-Jul-2002 : Added extra constructor, standard header and Javadoc
* comments (DG);
* 20-Aug-2002 : Added the outline stroke attribute (DG);
* 02-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 16-Oct-2002 : Added new constructor (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 21-May-2003 : Added labels (DG);
* 11-Sep-2003 : Implemented Cloneable (NB);
* 05-Nov-2003 : Added checks to ensure some attributes are never null (DG);
* 11-Feb-2003 : Moved to org.jfree.chart.plot package, plus significant API
* changes to support IntervalMarker in plots (DG);
* 14-Jun-2004 : Updated equals() method (DG);
* 21-Jan-2005 : Added settings to control direction of horizontal and
* vertical label offsets (DG);
* 01-Jun-2005 : Modified to use only one label offset type - this will be
* applied to the domain or range axis as appropriate (DG);
* 06-Jun-2005 : Fix equals() method to handle GradientPaint (DG);
* 19-Aug-2005 : Changed constructor from public --> protected (DG);
* --------------- JFREECHART 1.0.x ---------------------------------------------
* 05-Sep-2006 : Added MarkerChangeListener support (DG);
* 26-Sep-2007 : Fix for serialization bug 1802195 (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Changes

* -------
* 19-Apr-2007 : Version 1 (DG);
* 27-Mar-2009 : Fixed results for unsorted datasets (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
* 23-Aug-2012 : Fixed rendering anomaly bug 3561093 (DG);
* 03-Jul-2013 : Use ParamChecks (DG);

*/

Found in path(s):
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Changes
-------
16-Sep-2003 : Version 1 (DG);
23-Sep-2003 : Added Javadocs (DG);
12-Nov-2004 : Added getSubplotCount() and findSubplot() methods (DG);
01-Nov-2005 : Made 'owner' non-transient to fix bug 1344048 (DG);
01-Dec-2006 : Implemented clone() method properly (DG);
17-Apr-2007 : Fixed bug 1698965 (NPE in CombinedDomainXYPlot) (DG);

* JFREECHART 1.0.x ---------------------------------------------
01-Dec-2006 : Implemented clone() method properly (DG);

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* Changes
* -------
* 23-Jan-2003 : Version 1 (DG);
* 30-Jul-2003 : Pass through DatasetChangeEvent (CZ);
* 29-Jan-2004 : Replaced 'extract' int with TableOrder (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0 release (DG);
* 26-Jul-2006 : Added serialVersionUID, changed constructor to allow null for source, and added getSource(), getExtractType() and getExtractIndex() methods - see feature request 1477915 (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
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* Changes (from 24-Aug-2001)
* --------------------------
* 24-Aug-2001 : Added standard source header. Fixed DOS encoding problem (DG);
* 07-Nov-2001 : Updated header (DG);
* 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 14-Oct-2002 : Now extends EventListener (DG);
*
*/

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* ------
* 14-Aug-2008: Version 1 (DG);
* 10-Apr-2009: Added getter/setter for smallFont (DG);
* 10-Jul-2009: Added shadowGenerator field (DG);
* 29-Oct-2011: Fixed Eclipse warnings (DG);
* 02-Jul-2013: Use ParamChecks class (DG);
*
*/

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DateTick.java

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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): Peter Kolb (patch 1934255);
Andrew Mickish (patch 1870189);

Changes
-------
07-Nov-2003 : Version 1 (DG);
13-May-2004 : Added equals() method (DG);
25-Sep-2008 : Added minor tick support, see patch 1934255 by Peter Kolb (DG);

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* Changes:
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* 20-Jun-2014 : Version 1 (DG);
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* Changes
* ******
* 11-Oct-2001 : Version 1 (DG);
* 14-Nov-2001 : Added method to get year as primitive (DG);
*       Override for toString() method (DG);
* 18-Dec-2001 : Changed order of parameters in constructor (DG);
* 19-Dec-2001 : Added a new constructor as suggested by Paul English (DG);
* 29-Jan-2002 : Worked on the parseMonth() method (DG);
* 14-Feb-2002 : Fixed bugs in the Month constructors (DG);
* 26-Feb-2002 : Changed getStart(), getMiddle() and getEnd() methods to
*       evaluate with reference to a particular time zone (DG);
* 19-Mar-2002 : Changed API for TimePeriod classes (DG);
* 10-Sep-2002 : Added getSerialIndex() method (DG);
* 04-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 10-Jan-2003 : Changed base class and method names (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package, and implemented
*       Serializable (DG);
* 21-Oct-2003 : Added hashCode() method (DG);
* 01-Nov-2005 : Fixed bug 1345383 (argument check in constructor) (DG);
* -------------- JFREECHART 1.0.x ---------------------------------------------
* 05-Oct-2006 : Updated API docs (DG);
* 06-Oct-2006 : Refactored to cache first and last millisecond values (DG);
* 04-Apr-2007 : Fixed bug in Month(Date, TimeZone) constructor (CB);
* 01-Sep-2008 : Added clarification for previous() and next() methods (DG);
* 16-Sep-2008 : Deprecated DEFAULT_TIME_ZONE, and updated parsing to handle
*       extended range in Year (DG);
* 25-Nov-2008 : Added new constructor with Locale (DG);
* 04-Feb-2009 : Fix for new constructor with Locale - bug 2564636 (DG);
* 05-Jul-2012 : Removed JDK 1.3.1 supporting code (DG);
* */

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*                   Richard Atkinson;
*                   Christian W. Zuckschwerdt;
*                   Max Herfort (patch 1459313);
*                   DaveLaw (dave ATT davelaw DOTT de) (patch 3204823);
*
* Changes
* -------
* 31-Oct-2001 : Version 1, contributed by Serge V. Grachov (DG);
* 15-Nov-2001 : Modified to allow for null data values (DG);
* 13-Dec-2001 : Added tooltips (DG);
* 15-Feb-2002 : Added isStacked() method (DG);
* 24-May-2002 : Incorporated tooltips into chart entities (DG);
* 19-Jun-2002 : Added check for null info in drawCategoryItem method (DG);
* 25-Jun-2002 : Removed redundant imports (DG);
* 26-Jun-2002 : Small change to entity (DG);
* 05-Aug-2002 : Small modification to drawCategoryItem method to support URLs
*               for HTML image maps (RA);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 24-Oct-2002 : Amendments for changes in CategoryDataset interface and
*               CategoryToolTipGenerator interface (DG);
* 05-Nov-2002 : Replaced references to CategoryDataset with TableDataset (DG);
* 26-Nov-2002 : Replaced isStacked() method with getRangeType() method (DG);
* 17-Jan-2003 : Moved plot classes to a separate package (DG);
* 25-Mar-2003 : Implemented Serializable (DG);
* 01-May-2003 : Added default constructor (bug 726235) and fixed bug 726260 (DG);
* 13-May-2003 : Renamed StackedVerticalBarRenderer3D
  --> StackedBarRenderer3D (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 07-Oct-2003 : Added renderer state (DG);
* 21-Nov-2003 : Added a new constructor (DG);
* 27-Nov-2003 : Modified code to respect maxBarWidth setting (DG);
* 11-Aug-2004 : Fixed bug where isDrawBarOutline() was ignored (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 07-Jan-2005 : Renamed getRangeExtent() --> findRangeBounds (DG);
* 18-Mar-2005 : Override for getPassCount() method (DG);
* 20-Apr-2005 : Renamed CategoryLabelGenerator
  --> CategoryItemLabelGenerator (DG);
* 09-Jun-2005 : Use addItemEntity() method from superclass (DG);
* 22-Sep-2005 : Renamed getMaxBarWidth() --> getMaximumBarWidth() (DG);
* ----------- JFREECHART 1.0.x ---------------------------------------------
* 31-Mar-2006 : Added renderAsPercentages option - see patch 1459313 submitted
  by Max Herfort (DG);
* 16-Jan-2007 : Replaced rendering code to draw whole stack at once (DG);
* 18-Jan-2007 : Fixed bug handling null values in createStackedValueList()
  method (DG);
* 18-Jan-2007 : Updated block drawing code to take account of inverted axes,
  see bug report 1599652 (DG);
* 08-May-2007 : Fixed bugs 1713401 (drawBarOutlines flag) and 1713474
  (shading) (DG);
* 15-Aug-2008 : Fixed bug 2031407 - no negative zero for stack encoding (DG);
* 03-Feb-2009 : Fixed regression in findRangeBounds() method for null
  dataset (DG);
* 04-Feb-2009 : Handle seriesVisible flag (DG);
* 07-Jul-2009 : Added flag for handling zero values (DG);
* 11-Jun-2012 : Use new PaintAlpha class (patch 3204823 from DaveLaw) (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/renderer/category/StackedBarRenderer3D.java

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Changes:
--------
10-May-2005 : Version 1 (DG);
02-Jul-2013 : Use ParamChecks (DG);
/

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DefaultTableXYDataset.java

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Original Author: Richard Atkinson;
Contributor(s): Jody Brownell;
David Gilbert (for Object Refinery Limited);
Andreas Schroeder;

Changes:
--------
27-Jul-2003 : XYDataset that forces each series to have a value for every
X-point which is essential for stacked XY area charts (RA);
18-Aug-2003 : Fixed event notification when removing and updating
series (RA);
22-Sep-2003 : Functionality moved from TableXYDataset to
DefaultTableXYDataset (RA);
23-Dec-2003 : Added patch for large datasets, submitted by Jody
Brownell (DG);
16-Feb-2004 : Added pruning methods (DG);
31-Mar-2004 : Provisional implementation of IntervalXYDataset (AS);
01-Apr-2004 : Sound implementation of IntervalXYDataset (AS);
05-May-2004 : Now extends AbstractIntervalXYDataset (DG);
15-Jul-2004 : Switched getX() with getXValue() and getY() with
getYValue() (DG);
18-Aug-2004 : Moved from org.jfree.data --> org.jfree.data.xy (DG);
11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
release (DG);
05-Oct-2005 : Made the interval delegate a dataset listener (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 22-Apr-2008 : Implemented PublicCloneable (DG);
* 10-Jun-2009 : Simplified getX() and getY() (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* */

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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;
* *
* Changes
* ------
* 31-Oct-2001 : Version 1 (DG);
*
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* 09-Mar-2005 : Version 1, copied from the demo collection that ships with
* the JFreeChart Developer Guide (DG);
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    * Original Author:  David Gilbert (for Object Refinery Limited);
    * Contributor(s):  Peter Kolb (patch 2809117);
    *                 Martin Hoeller;
    *
    * Changes:
    *
    * 28-Aug-2002 : Version 1 (DG);
    * 07-Nov-2002 : Fixed errors reported by Checkstyle, added accessor
    *               methods (DG);
    * 13-Jan-2003 : Reviewed Javadosc (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 02-Jun-2003 : Added anchor and rotation settings (DG);
* 19-Aug-2003 : Added equals() method and implemented Cloneable (DG);
* 29-Sep-2004 : Updated equals() method (DG);
* 06-Jun-2005 : Fixed equals() method to work with GradientPaint (DG);
* 16-Jan-2007 : Added argument checks, fixed hashCode() method and updated
  * API docs (DG);
* 24-Jun-2009 : Fire change events (see patch 2809117 by PK) (DG);
* 28-Oct-2011 : Added missing argument check, Bug #3428870 (MH);
* 01-Jul-2013 : Added missing AnnotationChangeEvent for setText() (DG);

*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Changes:
* --------
* 28-Jan-2009 : Version 1 (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
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* Changes
* ------
* 13-Dec-2001: Version 1 (DG);
* 16-Jan-2002: Completed Javadocs (DG);
* 26-Sep-2002: Fixed errors reported by Checkstyle (DG);
* 30-Oct-2002: Category is now a Comparable instance (DG);
* 07-Mar-2003: Changed to KeyedValuesDataset and added pieIndex
  * parameter (DG);
* 21-Mar-2003: Updated Javadocs (DG);
* 24-Apr-2003: Switched around PieDataset and KeyedValuesDataset (DG);
* 13-Aug-2003: Added clone() method (DG);
* 19-Aug-2003: Renamed PieToolTipGenerator --> PieItemLabelGenerator (DG);
* 11-Nov-2003: Removed clone() method (DG);
* 30-Jan-2004: Added generateSectionLabel() method (DG);
* 15-Apr-2004: Moved generateToolTip() method into separate interface and
  * renamed this interface PieSectionLabelGenerator (DG);
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* Changes
* -------
* 05-Jul-2006 : Version 1 (DG);
* 31-Jan-2007 : Renamed min and max to lowerBound and upperBound (DG);
* 26-Sep-2007 : Fixed bug 1767315, problem in getPaint() method (DG);
* 29-Jan-2009 : Added alpha transparency field and hashCode() method (DG);
* 
* / *

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* Martin Hoeller (patch 3435374);
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* Changes
* ------
* 15-Oct-2004 : Version 1 (TS);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 11-Nov-2004 : Now uses ShapeUtilities class to translate shapes (DG);
* 26-Jan-2005 : Update for changes in super class (DG);
* 13-Apr-2005 : Check item visibility in drawItem() method (DG);
* 09-Jun-2005 : Use addItemEntity() in drawItem() method (DG);
* 10-Jun-2005 : Fixed capitalisation of setXOffset() and setYOffset() (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 01-Dec-2006 : Fixed equals() and serialization (DG);
* 17-Jan-2007 : Fixed bug in drawDomainGridline() method and added
* argument check to setWallPaint() (DG);
* 03-Apr-2007 : Fixed bugs in drawBackground() method (DG);
* 16-Oct-2007 : Fixed bug in range marker drawing (DG);
* 09-Nov-2011 : Fixed bug 3433405 - wrong item label position (MH);
* 13-Nov-2011 : Fixed item labels overlapped by line - patch 3435374 (MH);
* 03-Jul-2013 : Use ParamChecks (DG);
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* Changes 
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* 11-Oct-2001: Version 1 (DG);
* 15-Nov-2001: Updated Javadoc comments (DG);
* 29-Nov-2001: Added cloning (DG);
* 24-Jun-2002: Removed unnecessary import (DG);
* 07-Oct-2002: Fixed errors reported by Checkstyle (DG);
* 13-Mar-2003: Renamed TimeSeriesDataPair --> TimeSeriesDataItem, moved to
* com.jrefinery.data.time package, implemented Serializable (DG)

* ----------- JFREECHART 1.0.x ---------------------------------------------
* 09-Jun-2009: Tidied up equals() (DG);
* 03-Jul-2013: Use ParamChecks (DG);
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* Changes
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* 07-Oct-2002 : Version 1 (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 20-Aug-2003 : Implemented Cloneable (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

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* 17-Apr-2007 : Version 1 (DG);
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* Changes:
* --------
* 17-Sep-2008 : Version 1, based on XYImageAnnotation (DG);
* 10-Mar-2009 : Implemented XYAnnotationBoundsInfo (DG);
*
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* StandardXYURLGenerator.java
* ---------------------------
* (C) Copyright 2002-2013, by Richard Atkinson and Contributors.
*
* Original Author: Richard Atkinson;
* Contributors: David Gilbert (for Object Refinery Limited);
*
* Changes:
* --------
* 05-Aug-2002 : Version 1, contributed by Richard Atkinson;
* 29-Aug-2002 : New constructor and member variables to customise series and
* item parameter names (RA);
* 09-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 23-Mar-2003 : Implemented Serializable (DG);
* 01-Mar-2004 : Added equals() method (DG);
* 13-Jan-2005 : Modified for XHTML 1.0 compliance (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* */

Found in path(s):
*/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/urls/StandardXYURLGenerator.java
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* ____________

* Annotation.java

* ____________

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* Original Author: Peter Kolb (see patch 2809117);
* Contributor(s): ;

* Changes:
* __________

* 20-Jun-2009 : Version 1 (PK);

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/annotations/Annotation.java

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XYBubbleRenderer.java

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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): Christian W. Zuckschwerdt;

Changes
-------
28-Jan-2003 : Version 1 (DG);
25-Mar-2003 : Implemented Serializable (DG);
01-May-2003 : Modified drawItem() method signature (DG);
30-Jul-2003 : Modified entity constructor (CZ);
20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
10-Feb-2004 : Small change to drawItem() method to make cut-and-paste
   overriding easier (DG);
15-Jul-2004 : Switched getZ() and getZValue() methods (DG);
19-Jan-2005 : Now accesses only primitives from dataset (DG);
28-Feb-2005 : Modify renderer to use circles in legend (DG);
17-Mar-2005 : Fixed bug in bubble bounds calculation (DG);
20-Apr-2005 : Use generators for legend tooltips and URLs (DG);
------------- JFREECHART 1.0.x ---------------------------------------------
13-Dec-2005 : Added support for item labels (bug 1373371) (DG);
20-Jan-2006 : Check flag for drawing item labels (DG);
21-Sep-2006 : Respect the outline paint and stroke settings (DG);
* 24-Jan-2007 : Added new equals() override (DG);
* 06-Feb-2007 : Fixed bug 1086307, crosshairs with multiple axes (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
* 17-May-2007 : Set datasetIndex and seriesIndex in getLegendItem() (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 13-Jun-2007 : Fixed seriesVisibility bug (DG);
* 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/renderer/xy/XYBubbleRenderer.java
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* *
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* Changes:
* 
* 05-Jun-2003 : Version 1 (DG);
* 20-May-2004 : Added equals() method and implemented Cloneable and
* Serializable (DG);
* 18-May-2007 : Added dataset and seriesKey fields (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* 
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s): Bryan Scott;
* Nick Guenther;

* Changes
* -------
* 11-Oct-2001 : Version 1 (DG);
* 14-Nov-2001 : Added listener mechanism (DG);
* 15-Nov-2001 : Updated argument checking and exceptions in add() method (DG);
* 29-Nov-2001 : Added properties to describe the domain and range (DG);
* 07-Dec-2001 : Renamed TimeSeries --> BasicTimeSeries (DG);
* 01-Mar-2002 : Updated import statements (DG);
* 28-Mar-2002 : Added a method add(TimePeriod, double) (DG);
* 27-Aug-2002 : Changed return type of delete method to void (DG);
* 04-Oct-2002 : Added itemCount and historyCount attributes, fixed errors reported by Checkstyle (DG);
* 29-Oct-2002 : Added series change notification to addOrUpdate() method (DG);
* 28-Jan-2003 : Changed name back to TimeSeries (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package and implemented Serializable (DG);
* 01-May-2003 : Updated equals() method (see bug report 727575) (DG);
* 14-Aug-2003 : Added ageHistoryCountItems method (copied existing code for contents) made a method and added to addOrUpdate. Made a public method to enable ageing against a specified time (eg now) as opposed to lastest time in series (BS);
* 15-Oct-2003 : Added fix for setItemCount method - see bug report 804425. Modified exception message in add() method to be more informative (DG);
* 13-Apr-2004 : Added clear() method (DG);
* 21-May-2004 : Added an extra addOrUpdate() method (DG);
* 15-Jun-2004 : Fixed NullPointerException in equals() method (DG);
* 29-Nov-2004 : Fixed bug 1075255 (DG);
* 17-Nov-2005 : Renamed historyCount --> maximumItemAge (DG);
* 28-Nov-2005 : Changed maximumItemAge from int to long (DG);
* 01-Dec-2005 : New add methods accept notify flag (DG);
* JFREECHART 1.0.x ---------------------------------------------
* 24-May-2006 : Improved error handling in createCopy() methods (DG);
* 01-Sep-2006 : Fixed bugs in removeAgedItems() methods - see bug report 1550045 (DG);
* 22-Mar-2007 : Simplified getDataItem(RegularTimePeriod) - see patch 1685500 by Nick Guenther (DG);
* 31-Oct-2007 : Implemented faster hashCode() (DG);
* 21-Nov-2007 : Fixed clone() method (bug 1832432) (DG);
* 10-Jan-2008 : Fixed createCopy(RegularTimePeriod, RegularTimePeriod) (bug 1864222) (DG);
* 13-Jan-2009 : Fixed constructors so that timePeriodClass doesn't need to be specified in advance (DG);
* 26-May-2009 : Added cache for minY and maxY values (DG);
* 09-Jun-2009 : Ensure that TimeSeriesDataItem objects used in underlying
storage are cloned to keep series isolated from external changes (DG);
* 10-Jun-2009 : Added addOrUpdate(TimeSeriesDataItem) method (DG);
* 31-Aug-2009 : Clear minY and maxY cache values in createCopy (DG);
* 03-Dec-2011 : Fixed bug 3446965 which affects the y-range calculation for the series (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*/

/ * Found in path(s):
/ /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Eric Alexander;
*
*
* Changes
* -------
* 14-Mar-2002 : Version 1 contributed by Bryan Scott (DG);
* 19-Apr-2002 : Updated executeQuery, to close cursors and to improve support
* for types.
* 26-Apr-2002 : Renamed JdbcXYDataset to better fit in with the existing data
* source conventions.
* 26-Apr-2002 : Changed to extend AbstractDataset.
* 13-Aug-2002 : Updated Javadoc comments and imports (DG);
* 18-Sep-2002 : Updated to support BIGINT (BS);
* 21-Jan-2003 : Renamed JdbcXYDataset --> JDBCXYDataset (DG);
* 01-Jul-2003 : Added support to query whether a timeseries (BS);
* 30-Jul-2003 : Added empty constructor and executeQuery(connection,string)
* method (BS);
* 24-Sep-2003 : Added a check to ensure at least two valid columns are
* returned by the query in executeQuery as suggest in online
* forum by anonymous (BS);
* 02-Dec-2003 : Throwing exceptions allows to handle errors, removed default
* constructor, as without a connection, a query can never be
* executed.
* 16-Mar-2004 : Added check for null values (EA);
* 05-May-2004 : Now extends AbstractXYDataset (DG);
* 21-May-2004 : Implemented TableXYDataset, added support for SMALLINT and
* fixed bug in code that determines the min and max values (see
* bug id 938138) (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
* getYValue() (DG);
* 18-Nov-2004 : Updated for changes in RangeInfo interface (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
* release (DG);
* 17-Oct-2006 : Deprecated unused methods - see bug 1578293 (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author: Peter Kolb;
* Contributor(s): ;

* Changes:
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* 15-Feb-2009 : Version 1 (PK);
* 02-Jul-2013 : Use ParamChecks (DG);
*
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* Changes (from 18-Sep-2001)
* --------------------------
* 18-Sep-2001 : Updated header info (DG);
* 16-Oct-2001 : Moved to package com.jrefinery.data. *(DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* 05-Feb-2002 : Added getVolumeValue() method, as requested by Sylvain
*    Vieujot (DG);
* 05-May-2004 : Added methods that return double primitives (DG);
* 26-Jul-2004 : Switched names of methods that return Number vs
*    primitives (DG);
* 06-Sep-2004 : Renamed HighLowDataset --> OHLCDataset (DG);
* 
*/

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* /opt/cola/permits/1001218797_1654022912.96561260/jfreechart-1-0-19-sources-jar/org/jfree/data/xy/OHLCDataset.java
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* Contributor(s):  Tobias von Petersdorff (tvp@math.umd.edu,
*                 http://www.wam.umd.edu/~petersd/);
*                 David Gilbert (for Object Refinery Limited);
* *
* Changes:
* --------
* 25-Jul-2007 : Version 1, contributed by Klaus Rheinwald (DG);
* 03-Aug-2007 : Added new constructor (KR);
* 25-Oct-2007 : Prevent duplicate control points (KR);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
* 14-Sep-2013 : Replaced Vector with List, general cleanup (KR);
* 15-Sep-2013 : Added support to fill the area 'under' (between '0' and) the
*                spline(KR);
* 15-Sep-2013 : Replaced ControlPoint with Point2D.Float (KR);
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* Changes:
* --------
* 25-Sep-2002 : Version 1, contributed by Bryan Scott (DG);
* 27-Mar-2003 : Implemented Serializable (DG);
* 09-Sep-2003 : Added equals() method (DG);
* 08-Jun-2005 : Implemented Cloneable (DG);
* 22-Nov-2007 : Added hashCode() implementation (DG);
*
found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sourcesjar/org/jfree/chart/needle/ArrowNeedle.java

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*
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s): Peter Kolb (patch 2809117);
*
* Changes:
* .......
* 28-Aug-2002 : Version 1 (DG);
* 07-Nov-2002 : Fixed errors reported by Checkstyle (DG);
* 13-Jan-2003 : Reviewed Javadocs (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 02-Jul-2003 : Added new text alignment and rotation options (DG);
* 19-Aug-2003 : Implemented Cloneable (DG);
* 17-Jan-2003 : Added fix for bug 878706, where the annotation is placed
  incorrectly for a plot with horizontal orientation (thanks to
  Ed Yu for the fix) (DG);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 26-Jan-2006 : Fixed equals() method (bug 1415480) (DG);
* 06-Mar-2007 : Added argument checks, re-implemented hashCode() method (DG);
* 12-Feb-2009 : Added background paint and outline paint/stroke (DG);
* 01-Apr-2009 : Fixed bug in hotspot calculation (DG);
* 24-Jun-2009 : Fire change events (see patch 2809117) (DG);
*
*/

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  * Richard Atkinson (URL support for image maps);
  * Christian W. Zuckscherdt;
  * Arnaud Lelievre;
  * Martin Hilpert (patch 1891849);
  * Andreas Schroeder (very minor);
  * Christoph Beck (bug 2121818);

* Changes
* --------
* 21-Jun-2001 : Removed redundant JFreeChart parameter from constructors (DG);
* 18-Sep-2001 : Updated header (DG);
* 15-Oct-2001 : Data source classes moved to com.jrefinery.data.* (DG);
* 19-Oct-2001 : Moved series paint and stroke methods from JFreeChart.java to
  * Plot.java (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* 13-Nov-2001 : Modified plot subclasses so that null axes are possible for
  * pie plot (DG);
* 17-Nov-2001 : Added PieDataset interface and amended this class accordingly,
  * and completed removal of BlankAxis class as it is no longer
  * required (DG);
* 19-Nov-2001 : Changed 'drawCircle' property to 'circular' property (DG);
* 21-Nov-2001 : Added options for exploding pie sections and filled out range
  * of properties (DG);
*  13-Dec-2001 : Added tool tips (DG);
* 16-Jan-2002 : Renamed tool tips class (DG);
* 22-Jan-2002 : Fixed bug correlating legend labels with pie data (DG);
* 05-Feb-2002 : Added alpha-transparency to plot class, and updated
  * constructors accordingly (DG);
* 06-Feb-2002 : Added optional background image and alpha-transparency to Plot
  * and subclasses. Clipped drawing within plot area (DG);
* 26-Mar-2002 : Added an empty zoom method (DG);
* 18-Apr-2002 : PieDataset is no longer sorted (oldman);
* 23-Apr-2002 : Moved dataset from JFreeChart to Plot. Added
  * getLegendItemLabels() method (DG);
* 19-Jun-2002 : Added attributes to control starting angle and direction
  * (default is now clockwise) (DG);
* 25-Jun-2002 : Removed redundant imports (DG);
* 02-Jul-2002 : Fixed sign of percentage bug introduced in 0.9.2 (DG);
* 16-Jul-2002 : Added check for null dataset in getLegendItemLabels() (DG);
* 30-Jul-2002 : Moved summation code to DatasetUtilities (DG);
* 05-Aug-2002 : Added URL support for image maps - new member variable for
  *   urlGenerator, modified constructor and minor change to the
  *   draw method (RA);
* 18-Sep-2002 : Modified the percent label creation and added setters for the
  *   formatters (AS);
* 24-Sep-2002 : Added getLegendItems() method (DG);
* 02-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 09-Oct-2002 : Added check for null entity collection (DG);
* 30-Oct-2002 : Changed PieDataset interface (DG);
* 18-Nov-2002 : Changed CategoryDataset to TableDataset (DG);
* 02-Jan-2003 : Fixed "no data" message (DG);
* 23-Jan-2003 : Modified to extract data from rows OR columns in
  *   CategoryDataset (DG);
* 14-Feb-2003 : Fixed label drawing so that foreground alpha does not apply
  *   (bug id 685536) (DG);
* 07-Mar-2003 : Modified to pass pieIndex on to PieSectionEntity and tooltip
  *   and URL generators (DG);
* 21-Mar-2003 : Added a minimum angle for drawing arcs
  *   (see bug id 620031) (DG);
* 24-Apr-2003 : Switched around PieDataset and KeyedValuesDataset (DG);
* 02-Jun-2003 : Fixed bug 721733 (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 19-Aug-2003 : Implemented Cloneable (DG);
* 29-Aug-2003 : Fixed bug 796936 (null pointer on setOutlinePaint()) (DG);
* 08-Sep-2003 : Added internationalization via use of properties
  *   resourceBundle (RFE 690236) (AL);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 29-Oct-2003 : Added workaround for font alignment in PDF output (DG);
* 05-Nov-2003 : Fixed missing legend bug (DG);
* 10-Nov-2003 : Re-added the DatasetChangeListener to constructors (CZ);
* 29-Jan-2004 : Fixed clipping bug in draw() method (DG);
* 11-Mar-2004 : Major overhaul to improve labelling (DG);
* 31-Mar-2004 : Made an adjustment for the plot area when the label generator
  *   is null. Fixed null pointer exception when the label
  *   generator returns null for a label (DG);
* 06-Apr-2004 : Added getter, setter, serialization and draw support for
  *   labelBackgroundPaint (AS);
* 08-Apr-2004 : Added flag to control whether null values are ignored or
  *   not (DG);
* 15-Apr-2004 : Fixed some minor warnings from Eclipse (DG);
* 26-Apr-2004 : Added attributes for label outline and shadow (DG);
* 04-Oct-2004 : Renamed ShapeUtils --> ShapeUtilities (DG);
* 04-Nov-2004 : Fixed null pointer exception with new LegendTitle class (DG);
* 09-Nov-2004 : Added user definable legend item shape (DG);
* 25-Nov-2004 : Added new legend label generator (DG);
* 20-Apr-2005 : Added a tooltip generator for legend labels (DG);
* 26-Apr-2005 : Removed LOGGER (DG);
* 05-May-2005 : Updated draw() method parameters (DG);
* 10-May-2005 : Added flag to control visibility of label linking lines, plus
  another flag to control the handling of zero values (DG);
* 08-Jun-2005 : Fixed bug in getLegendItems() method (not respecting flags
  for ignoring null and zero values), and fixed equals() method
  to handle GradientPaint (DG);
* 15-Jul-2005 : Added sectionOutlinesVisible attribute (DG);
* 09-Jan-2006 : Fixed bug 1400442, inconsistent treatment of null and zero
  values in dataset (DG);
* 28-Feb-2006 : Fixed bug 1440415, bad distribution of pie section
  labels (DG);
* 27-Sep-2006 : Initialised baseSectionPaint correctly, added lookup methods
  for section paint, outline paint and outline stroke (DG);
* 27-Sep-2006 : Refactored paint and stroke methods to use keys rather than
  section indices (DG);
* 03-Oct-2006 : Replaced call to JRE 1.5 method (DG);
* 23-Nov-2006 : Added support for URLs for the legend items (DG);
* 24-Nov-2006 : Cloning fixes (DG);
* 17-Apr-2007 : Check for null label in legend items (DG);
* 19-Apr-2007 : Deprecated override settings (DG);
* 18-May-2007 : Set dataset for LegendItem (DG);
* 14-Jun-2007 : Added label distributor attribute (DG);
* 18-Jul-2007 : Added simple label option (DG);
* 21-Nov-2007 : Fixed labelling bugs, added debug code, restored default
  white background (DG);
* 19-Mar-2008 : Fixed IllegalArgumentException when drawing with null
  dataset (DG);
* 31-Mar-2008 : Adjust the label area for the interiorGap (DG);
* 31-Mar-2008 : Added quad and cubic curve label link lines - see patch
  1891849 by Martin Hilpert (DG);
* 02-Jul-2008 : Added autoPopulate flags (DG);
* 15-Aug-2008 : Added methods to clear section attributes (DG);
* 15-Aug-2008 : Fixed bug 2051168 - problem with LegendItemEntity
  generation (DG);
* 23-Sep-2008 : Added getLabelLinkDepth() method - see bug 2121818 reported
  by Christoph Beck (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
  Jess Thysoe (DG);
* 10-Jul-2009 : Added optional drop shadow generator (DG);
* 03-Sep-2009 : Fixed bug where simpleLabelOffset is ignored (DG);
* 04-Nov-2009 : Add mouse wheel rotation support (DG);
* 18-Oct-2011 : Fixed tooltip offset with shadow generator (DG);
* 20-Nov-2011 : Initialise shadow generator as null (DG);
* 01-Jul-2012 : General label once only in drawSimpleLabels() (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 12-Sep-2013 : Check for KEY_SUPPRESS_SHADOW_GENERATION rendering hint (DG);
/*

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/PiePlot.java

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* *
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* Contributor(s):  -;
* *
* Changes
* *
* 23-Jan-2003 : Version 1 (DG);
* *
*/

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 *
 * Original Author: David Gilbert (for Object Refinery Limited);
 * Contributor(s): -;
 *
 * Changes:
 * --------
 * 22-Oct-2004 : Version 1 (DG);
 * 02-Feb-2005 : Added accessor methods for margin (DG);
 * 04-Feb-2005 : Added equals() method and implemented Serializable (DG);
 * 03-May-2005 : Added null argument checks (DG);
 * 06-May-2005 : Added convenience methods for setting margin, border and
 *               padding (DG);
 * 16-Mar-2007 : Changed border from BlockBorder to BlockFrame, updated

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equals(), and implemented Cloneable (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* *
* /

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* Contributor(s):  
* *
* Changes
* -----:
* 23-Nov-2001 : Version 1 (DG);
* 18-Feb-2002 : Fixed bug in getNearestTickUnit (thanks to Mario Inchiosa for
* reporting this, SourceForge bug id 518073) (DG);
* 25-Feb-2002 : Moved createStandardTickUnits() method from NumberAxis, and
  added createIntegerTickUnits() method (DG);
* 01-May-2002 : Updated for changes to the TickUnit class (DG);
* 18-Sep-2002 : Added standardTickUnit methods which take a Locale
  instance (AS);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 08-Nov-2002 : Moved to new package com.jrefinery.chart.axis (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 13-Aug-2003 : Implemented Cloneable (DG);
* 23-Sep-2003 : Implemented TickUnitSource interface (DG);
* 03-Dec-2003 : Adding null values now throws exceptions (TM);
* 11-Jan-2005 : Removed deprecated methods in preparation for 1.0.0
  release (DG);
* /

*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/axis/TickUnits.java
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* Original Author: David Browning (for the Australian Institute of Marine Science);
* Contributor(s): David Gilbert (for Object Refinery Limited);
  * Tim Bardzil;
  * Rob Van der Sanden (patches 1866446 and 1888422);
  * Peter Becker (patches 2868585 and 2868608);
  * Martin Krauskopf (patch 3421088);
  * Martin Hoeller;

* Changes
* -------
* 21-Aug-2003 : Version 1, contributed by David Browning (for the Australian Institute of Marine Science);
* 01-Sep-2003 : Incorporated outlier and farout symbols for low values also (DG);
* 08-Sep-2003 : Changed ValueAxis API (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 07-Oct-2003 : Added renderer state (DG);
* 12-Nov-2003 : Fixed casting bug reported by Tim Bardzil (DG);
* 13-Nov-2003 : Added drawHorizontalItem() method contributed by Tim Bardzil (DG);
* 25-Apr-2004 : Added fillBox attribute, equals() method and added serialization code (DG);
* 29-Apr-2004 : Changed drawing of upper and lower shadows - see bug report 944011 (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 09-Mar-2005 : Override getLegendItem() method so that legend item shapes are shown as blocks (DG);
* 20-Apr-2005 : Generate legend labels, tooltips and URLs (DG);
* 09-Jun-2005 : Updated equals() to handle GradientPaint (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 12-Oct-2006 : Source reformatting and API doc updates (DG);
* 12-Oct-2006 : Fixed bug 1572478, potential NullPointerException (DG);
* 05-Feb-2006 : Added event notifications to a couple of methods (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
* 11-May-2007 : Added check for visibility in getLegendItem() (DG);
* 17-May-2007 : Set datasetIndex and seriesIndex in getLegendItem() (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 03-Jan-2008 : Check visibility of average marker before drawing it (DG);
* 15-Jan-2008 : Add getMaximumBarWidth() and setMaximumBarWidth() methods (RVdS);
* 14-Feb-2008 : Fix bar position for horizontal chart, see patch 1888422 (RVdS);
* 27-Mar-2008 : Boxes should use outlinePaint/Stroke settings (DG);
* 17-Jun-2008 : Apply legend shape, font and paint attributes (DG);
* 02-Oct-2008 : Check item visibility in drawItem() method (DG);
* 21-Jan-2009 : Added flags to control visibility of mean and median indicators (DG);
* 28-Sep-2009 : Added fireChangeEvent() to setMedianVisible (DG);
* 28-Sep-2009 : Added useOutlinePaintForWhiskers flag, see patch 2868585 by Peter Becker (DG);
* 28-Sep-2009 : Added whiskerWidth attribute, see patch 2868608 by Peter Becker (DG);
* 11-Oct-2011 : applied patch #3421088 from Martin Krauskopf to fix bug (MH);
* 03-Jul-2013 : Use ParamChecks (DG);
* /

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/renderer/category/BoxAndWhiskerRenderer.java
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* Contributor(s): David Gilbert (for Object Refinery Limited);

* Changes
* ------
* 29-Mar-2002 : First version (AB);
* 19-Apr-2002 : Updated formatting and import statements (DG);
* 21-Jun-2002 : Make change to use the class TickUnit - remove valueToString()
  method and add SymbolicTickUnit (AB);
* 25-Jun-2002 : Removed redundant code (DG);
* 25-Jul-2002 : Changed order of parameters in ValueAxis constructor (DG);
* 05-Sep-2002 : Updated constructor to reflect changes in the Axis class (DG);
* 08-Nov-2002 : Moved to new package com.jrefinery.chart.axis (DG);
* 14-Feb-2003 : Added back missing constructor code (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 14-May-2003 : Renamed HorizontalSymbolicAxis --> SymbolicAxis and merged in
  VerticalSymbolicAxis (DG);
* 12-Aug-2003 : Fixed bug where refreshTicks() method has different signature
  to super class (DG);
* 29-Oct-2003 : Added workaround for font alignment in PDF output (DG);
* 02-Nov-2003 : Added code to avoid overlapping labels (MR);
* 07-Nov-2003 : Modified to use new tick classes (DG);
* 18-Nov-2003 : Fixed bug where symbols are not being displayed on the
  axis (DG);
* 24-Nov-2003 : Added fix for gridlines on zooming (bug id 834643) (DG);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 11-Mar-2004 : Modified the way the background grid color is being drawn, see
  this thread:
  * http://www.jfree.org/phpBB2/viewtopic.php?p=22973 (DG);
* 16-Mar-2004 : Added plotState to draw() method (DG);
* 07-Apr-2004 : Modified string bounds calculation (DG);
* 28-Mar-2005 : Renamed autoRangeIncludesZero() --> getAutoRangeIncludesZero()
  and autoRangeStickyZero() --> getAutoRangeStickyZero() (DG);
* 05-Jul-2005 : Fixed signature on refreshTicks() method - see bug report
  1232264 (DG);
* 06-Jul-2005 : Renamed SymbolicAxis --> SymbolAxis, added equals() method,
  renamed getSymbolicValue() --> getSymbols(), renamed
  symbolicGridPaint --> gridBandPaint, fixed serialization of
  gridBandPaint, renamed symbolicGridLinesVisible -->
  gridBandsVisible, eliminated symbolicGridLineList (DG);
* ---------- JFREECHART 1.0.x ---------------------------------------------
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*  Changes
*  -------
*  20-Oct-2006 : Version 1 (DG);
*  *
*/

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    *
    * Changes:
    * --------
    * 25-Jun-2014 : Version 1 (DG);
    *
    */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/xy/YIntervalDataItem.java

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*                  Jon Iles;
*                  Jelai Wang;
*                  Richard Atkinson;
*                  David Browning (for Australian Institute of Marine
*                  Science);
*                  Benoit Xhenseval;
*
* Changes
* -------
* 19-Oct-2001 : Version 1, most methods transferred from JFreeChart.java (DG);
* 22-Oct-2001 : Added methods to create stacked bar charts (DG);
* Renamed DataSource.java --> Dataset.java etc. (DG);
* 31-Oct-2001 : Added 3D-effect vertical bar and stacked-bar charts, contributed by Serge V. Grachov (DG);
* 07-Nov-2001 : Added a flag to control whether or not a legend is added to the chart (DG);
* 17-Nov-2001 : For pie chart, changed dataset from CategoryDataset to PieDataset (DG);
* 30-Nov-2001 : Removed try/catch handlers from chart creation, as the exception are now RuntimeExceptions, as suggested by Joao Guilherme Del Valle (DG);
* 06-Dec-2001 : Added createCombiable XXXXXCharts methods (BK);
* 12-Dec-2001 : Added createCandlestickChart() method (DG);
* 13-Dec-2001 : Updated methods for charts with new renderers (DG);
* 08-Jan-2002 : Added import for com.jrefinery.chart.combination.CombinedChart (DG);
* 31-Jan-2002 : Changed the createCombiableVerticalXYBarChart() method to use renderer (DG);
* 06-Feb-2002 : Added new method createWindPlot() (DG);
* 23-Apr-2002 : Updates to the chart and plot constructor API (DG);
* 21-May-2002 : Added new method createAreaChart() (JI);
* 06-Jun-2002 : Added new method createGanttChart() (DG);
* 11-Jun-2002 : Renamed createHorizontalStackedBarChart() --> createStackedHorizontalBarChart() for consistency (DG);
* 06-Aug-2002 : Updated Javadoc comments (DG);
* 21-Aug-2002 : Added createPieChart(CategoryDataset) method (DG);
* 02-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 09-Oct-2002 : Added methods including tooltips and URL flags (DG);
* 06-Nov-2002 : Moved renderers into a separate package (DG);
* 18-Nov-2002 : Changed CategoryDataset to TableDataset (DG);
* 21-Mar-2003 : Incorporated HorizontalCategoryAxis3D, see bug id 685501 (DG);
* 13-May-2003 : Merged some horizontal and vertical methods (DG);
* 24-May-2003 : Added support for timeline in createHighLowChart (BK);
* 07-Jul-2003 : Added createHistogram() method contributed by Jelai Wang (DG);
* 27-Jul-2003 : Added createStackedAreaXYChart() method (RA);
* 05-Aug-2003 : added new method createBoxAndWhiskerChart (DB);
* 08-Sep-2003 : Changed ValueAxis API (DG);
* 07-Oct-2003 : Added stepped area XY chart contributed by Matthias Rose (DG);
* 06-Nov-2003 : Added createWaterfallChart() method (DG);
* 20-Nov-2003 : Set rendering order for 3D bar charts to fix overlapping problems (DG);
* 25-Nov-2003 : Added createWaferMapChart() method (DG);
* 23-Dec-2003 : Renamed createPie3DChart() --> createPieChart3D for consistency (DG);
* 20-Jan-2004 : Added createPolarChart() method (DG);
* 28-Jan-2004 : Fixed bug (882890) with axis range in createStackedXYAreaChart() method (DG);
* 25-Feb-2004 : Renamed XYToolTipGenerator --> XYItemLabelGenerator (DG);
* 11-Mar-2004 : Updated for pie chart changes (DG);
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* CombinedRangeXYPlot.java
* _______________
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* 
* Original Author: Bill Kelemen;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*               Anthony Boulestream;
*               David Basten;
*               Kevin Frechette (for ISTI);
*               Arnaud Lelievre;
*               Nicolas Brodu;
*               Petr Kubanek (bug 1606205);
* 
* Changes:
* _______
* 06-Dec-2001 : Version 1 (BK);
* 12-Dec-2001 : Removed unnecessary 'throws' clause from constructor (DG);
* 18-Dec-2001 : Added plotArea attribute and get/set methods (BK);
* 22-Dec-2001 : Fixed bug in chartChanged with multiple combinations of
*               CombinedPlots (BK);
* 08-Jan-2002 : Moved to new package com.jrefinery.chart.combination (DG);
* 25-Feb-2002 : Updated import statements (DG);
* 28-Feb-2002 : Readded "this.plotArea = plotArea" that was deleted from
*               draw() method (BK);
* 26-Mar-2002 : Added an empty zoom method (this method needs to be written
*               so that combined plots will support zooming (DG);
* 29-Mar-2002 : Changed the method createCombinedAxis adding the creation of
*               OverlaidSymbolicAxis and CombinedSymbolicAxis(AB);
* 23-Apr-2002 : Renamed CombinedPlot-->MultiXYPlot, and simplified the
*               structure (DG);
* 23-May-2002 : Renamed (again) MultiXYPlot-->CombinedXYPlot (DG);
* 19-Jun-2002 : Added get/setGap() methods suggested by David Basten (DG);
* 25-Jun-2002 : Removed redundant imports (DG);
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/CombinedRangeXYPlot.java
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* 16-Jul-2002 : Draws shared axis after subplots (to fix missing gridlines),
*               added overrides of 'setSeriesPaint()' and 'setXYItemRenderer()
*               that pass changes down to subplots (KF);
* 09-Oct-2002 : Added add(XYPlot) method (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 16-May-2003 : Renamed CombinedXYPlot --> CombinedRangeXYPlot (DG);
* 26-Jun-2003 : Fixed bug 755547 (DG);
* 16-Jul-2003 : Removed getSubPlots() method (duplicate of getSubplots()) (DG);
* 08-Aug-2003 : Adjusted totalWeight in remove() method (DG);
* 21-Aug-2003 : Implemented Cloneable (DG);
* 08-Sep-2003 : Added internationalization via use of properties
*               resourceBundle (RFE 690236) (AL);
* 11-Sep-2003 : Fix cloning support (subplots) (NB);
* 15-Sep-2003 : Fixed error in cloning (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 17-Sep-2003 : Updated handling of 'clicks' (DG);
* 12-Nov-2004 : Implements the new Zoomable interface (DG);
* 25-Nov-2004 : Small update to clone() implementation (DG);
* 21-Feb-2005 : The getLegendItems() method now returns the fixed legend
*               items if set (DG);
* 05-May-2005 : Removed unused draw() method (DG);
* 13-Sep-2006 : Updated API docs (DG);
* 06-Feb-2007 : Fixed bug 1606205, draw shared axis after subplots (DG);
* 23-Mar-2007 : Reverted previous patch (DG);
* 17-Apr-2007 : Added null argument checks to findSubplot() (DG);
* 18-Jul-2007 : Fixed bug in removeSubplot (DG);
* 27-Nov-2007 : Modified setFixedDomainAxisSpaceForSubplots() so as not to
*               trigger change events in subplots (DG);
* 27-Mar-2008 : Add documentation for getDataRange() method (DG);
* 31-Mar-2008 : Updated getSubplots() to return EMPTY_LIST for null
*               subplots, as suggested by Richard West (DG);
* 28-Apr-2008 : Fixed zooming problem (see bug 1950037) (DG);
* 11-Aug-2008 : Don't store totalWeight of subplots, calculate it as
*               required (DG);
* 21-Dec-2011 : Apply patch 3447161 by Ulrich Voigt and Martin Hoeller (MH);
* 21-Jul-2014 : Override isDomainPannable() and setDomainPannable() - motivated
*               by patch #304 by Ulrich Voigt (DG);
*/

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DefaultHighLowDataset.java

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Changes
------
21-Mar-2002 : Version 1 (DG);
07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
06-May-2004 : Now extends AbstractXYDataset and added new methods from
              HighLowDataset (DG);
15-Jul-2004 : Switched getX() with getXValue() and getY() with
              getYValue() (DG);
------------- JFREECHART 1.0.x ---------------------------------------------
28-Nov-2006 : Added equals() method override (DG);
22-Apr-2008 : Implemented PublicCloneable (DG);
03-Jul-2013 : Use ParamChecks (DG);

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 *
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 * Contributor(s):  David Gilbert (for Object Refinery Limited);
 *
 * Changes
 * -------
 * 19-Nov-2003 : Initial import to JFreeChart from the JSynoptic project (NB);
 * 16-Mar-2004 : Added plotState to draw() method (DG);
 * 07-Apr-2004 : Modified text bounds calculation (DG);
 * 21-Apr-2005 : Replaced Insets with RectangleInsets, removed redundant
 *               argument in selectAutoTickUnit() (DG);
 * 22-Apr-2005 : Renamed refreshHorizontalTicks() --> refreshTicksHorizontal
 *               (for consistency with other classes) and removed unused
 *               parameters (DG);
* 08-Jun-2005 : Fixed equals() method to handle GradientPaint (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/axis/CyclicNumberAxis.java

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* RendererChangeListener.java

* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* 
* Changes
* -------
* 23-Oct-2003 : Added standard source header. Fixed DOS encoding problem (DG);
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/event/RendererChangeListener.java
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        * Changes
        * -------
        * 30-Jan-2007 : Version 1 (DG);
        * 24-May-2007 : Added getLength() and getAngle() methods, thanks to
        *               matinh (DG);
        * 25-May-2007 : Moved from experimental to the main source tree (DG);
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/xy/Vector.java
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 * Contributor(s): Richard Atkinson;
 * Christian W. Zuckschwerdt;
 *
 * Changes:
 * --------
 * 23-May-2002 : Version 1 (DG);
 * 12-Jun-2002 : Added Javadoc comments (DG);
 * 26-Jun-2002 : Added method to generate AREA tag for image map
 * generation (DG);
* 05-Aug-2002 : Added new constructor to populate URLText
*      Moved getImageMapAreaTag() to ChartEntity (superclass) (RA);
* 03-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 07-Mar-2003 : Added pie index attribute, since the PiePlot class can create
*      multiple pie plots within one chart. Also renamed 'category'
*      --> 'sectionKey' and changed the class from Object -->
*      Comparable (DG);
* 30-Jul-2003 : Added PieDataset reference (CZ);
* 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
* 13-Nov-2007 : Implemented equals() and hashCode() (DG);
*
*/

Found in path(s):
    /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/entity/PieSectionEntity.java
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Changes:
---------
01-Oct-2002: Version 1 (DG);
28-May-2009: Added accessor methods for co-efficients, implemented
             equals() and hashCode(), and added Serialization support (DG);

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  * Changes
  * -------
  * 19-Dec-2001 : Added standard header (DG);
  * 01-May-2002 : Changed the unit size from Number to double (DG);
  * 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
  * 08-Nov-2002 : Moved to new package com.jrefinery.chart.axis (DG);
  * 26-Mar-2003 : Implemented Serializable (DG);
  * 05-Sep-2005 : Implemented hashCode(), thanks to Thomas Morgner (DG);
  * 02-Aug-2007 : Added minorTickCount attribute (DG);
  *
  */

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* Changes:
* --------
* 16-Mar-2007 : Version 1, contributed by Christo Zietsman with
* modifications by DG (DG);
* 13-Jun-2007 : Don't draw if area doesn't have positive dimensions (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 29-Jul-2014 : Add rendering hint to normalise stroke for border (DG);
*
*/

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* Changes:
* --------
* 01-Oct-2002 : Version 1 (DG);
* 20-Jan-2005 : Minor Javadoc update (DG);
* 
*/

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* Contributor(s): David Gilbert (for Object Refinery Limited);
* 
* Changes
* ------
* 01-Aug-2004 : Initial version (RA);
* 01-Nov-2005 : Now using ImageIO for JPEG encoding, so we no longer have a
* dependency on com.sun.* which isn't available on all
* implementations (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 06-Jul-2008 : Remove encoder only used in JDK 1.3 (DG);
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* ------
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* 24-May-2007 : Added indexOf(), removeSeries() and removeAllSeries() methods (DG);
* 25-May-2007 : Moved from experimental to the main source tree (DG);
* 22-Apr-2008 : Implemented PublicCloneable (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/xy/VectorSeriesCollection.java

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* Contributor(s): -;
* 
* Changes
* -------
* 03-Nov-2006 : Version 1 (DG);
* 16-Oct-2007 : The equals() method needs to call super.equals() (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/dial/DialBackground.java
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* (C) Copyright 2003-2013, by Object Refinery Limited and contributors.
* 
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Peter Kolb (patch 2511330);
* 
* Changes
* -------
* 05-Mar-2003 : Version 1 (DG);
* 03-Mar-2005 : Moved createNumberArray() and createNumberArray2D() methods
* from the DatasetUtilities class (DG);
* 17-May-2005 : Added calculateColumnTotal() and calculateRowTotal()
* methods (DG);
* 28-Jan-2009 : Added equal(double[][], double[][]) method (DG);
* 28-Jan-2009 : Added clone(double[][]) method (DG);
* 04-Feb-2009 : Added calculateColumnTotal/RowTotal variants (PK);
* 03-Jul-2013 : Use ParamChecks (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
* jar/org/jfree/data/DataUtilities.java
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* (C) Copyright 2002-2008, by David M. O'Donnell and Contributors.
* 
* Original Author: David M. O'Donnell;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Arnaud Lelievre;
* 
* Changes
* ------
* 26-Nov-2002 : Version 1 contributed by David M. O'Donnell (DG);
* 08-Sep-2003 : Added internationalization via use of properties
* resourceBundle (RFE 690236) (AL);
* --> DefaultColorBarEditor (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 18-Dec-2008 : Use ResourceBundleWrapper - see patch 1607918 by
* Jess Thrysoee (DG);
* 
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
ar/jfreechart-1-0-19-sources-jar/org/jfree/chart/editor/DefaultColorBarEditor.java

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  * Original Author:  David Gilbert (for Object Refinery Limited);
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  * Changes
  * ------
  * 24-Nov-2005 : Version 1 (DG);
  * 03-Jul-2013 : Use ParamChecks (DG);
  *
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* *
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Mike Harris;
* Peter Kolb (patch 2809117);
* *
* Changes:
* -------
* 01-Dec-2003 : Version 1 (DG);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 18-May-2004 : Fixed bug with plot orientation (DG);
* 29-Sep-2004 : Now extends AbstractXYAnnotation, with modified draw()
*               method signature and updated equals() method (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 01-Dec-2006 : Added anchor attribute (see patch 1584860 from
*               Mike Harris) (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* *
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/chart/annotations/XYImageAnnotation.java
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Changes
-----
23-Oct-2006 : Version 1 (DG);
02-Nov-2006 : Fixed a problem with adding a new series with the same key
as an existing series (see bug 1589392) (DG);
28-Nov-2006 : New override for clone() (DG);
22-Apr-2008 : Implemented PublicCloneable (DG);
10-Aug-2009 : Fixed typo in Javadocs - see bug 2830419 (DG);

Changes

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* Changes
* -------
* 28-Apr-2008 : Version 1 (DG);
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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*
* Original Author: Barak Naveh;
* Contributor(s): David Gilbert (for Object Refinery Limited);
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* Changes
* ------
* 10-Jul-2003 : Version 1 contributed by Barak Naveh (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
*
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Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Changes
* -------
* 14-Nov-2001 : Version 1 (DG);
* 05-Apr-2002 : Removed redundant first column (DG);
* 24-Jun-2002 : Removed unnecessary local variable (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/time/TimeSeriesTableModel.java
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* Original Author: David Gilbert (for Object Refinery Limited);
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* Changes
* -----
* 03-Nov-2006 : Version 1 (DG);
* 17-Oct-2007 : Made this an extension of the DialLayer interface (DG);
* /

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* -------
* 03-Dec-2003 : Version 1 (DG);
* 29-Apr-2005 : Added equals() method (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
*
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  jar/org/jfree/chart/labels/StandardXYToolTipGenerator.java
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* Contributor(s): David Gilbert (for Object Refinery Limited);
  * Anthony Boulestraeau;
  * David Basten;
  * Kevin Frechette (for ISTI);
  * Nicolas Brodu;
  * Petr Kubanek (bug 1606205);

* Changes:
* --------
* 06-Dec-2001: Version 1 (BK);
* 12-Dec-2001: Removed unnecessary ‘throws’ clause from constructor (DG);
* 18-Dec-2001: Added plotArea attribute and get/set methods (BK);
* 22-Dec-2001: Fixed bug in chartChanged with multiple combinations of
  * CombinedPlots (BK);
* 08-Jan-2002: Moved to new package com.jrefinery.chart.combination (DG);
* 25-Feb-2002: Updated import statements (DG);
* 28-Feb-2002: Readded “this.plotArea = plotArea” that was deleted from
  * draw() method (BK);
* 26-Mar-2002: Added an empty zoom method (this method needs to be written so
  * that combined plots will support zooming (DG);
* 29-Mar-2002: Changed the method createCombinedAxis adding the creation of
  * OverlaidSymbolicAxis and CombinedSymbolicAxis(AB);
* 23-Apr-2002: Renamed CombinedPlot-->MultiXYPlot, and simplified the
  * structure (DG);
* 23-May-2002: Renamed (again) MultiXYPlot-->CombinedXYPlot (DG);
* 19-Jun-2002: Added get/setGap() methods suggested by David Basten (DG);
* 25-Jun-2002: Removed redundant imports (DG);
* 16-Jul-2002: Draws shared axis after subplots (to fix missing gridlines),
  * added overrides of ‘setSeriesPaint()’ and ‘setXYItemRenderer()’
  * that pass changes down to subplots (KF);
* 09-Oct-2002: Added add(XYPlot) method (DG);
* 26-Mar-2003: Implemented Serializable (DG);
* 16-May-2003: Renamed CombinedXYPlot --> CombinedDomainXYPlot (DG);
* 04-Aug-2003: Removed leftover code that was causing domain axis drawing
  * problem (DG);
* 08-Aug-2003: Adjusted totalWeight in remove() method (DG);
* 21-Aug-2003: Implemented Cloneable (DG);
* 11-Sep-2003 : Fix cloning support (subplots) (NB);
* 15-Sep-2003 : Fixed error in cloning (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 17-Sep-2003 : Updated handling of 'clicks' (DG);
* 12-Nov-2004 : Implemented the new Zoomable interface (DG);
* 25-Nov-2004 : Small update to clone() implementation (DG);
* 21-Feb-2005 : The getLegendItems() method now returns the fixed legend
  items if set (DG);
* 05-May-2005 : Removed unused draw() method (DG);

* ---------------- JFREECHART 1.0.x ---------------------------------------------
* 23-Aug-2006 : Override setFixedRangeAxisSpace() to update subplots (DG);
* 06-Feb-2007 : Fixed bug 1606205, draw shared axis after subplots (DG);
* 23-Mar-2007 : Reverted previous patch (bug fix 1606205) (DG);
* 17-Apr-2007 : Added null argument checks to findSubplot() (DG);
* 27-Nov-2007 : Modified setFixedRangeAxisSpaceForSubplots() so as not to
  trigger change event in subplots (DG);
* 28-Jan-2008 : Reset fixed range axis space in subplots for each call to
  draw() (DG);
* 27-Mar-2008 : Add documentation for getDataRange() method (DG);
* 31-Mar-2008 : Updated getSubplots() to return EMPTY_LIST for null
  subplots, as suggested by Richard West (DG);
* 28-Apr-2008 : Fixed zooming problem (see bug 1950037) (DG);
* 11-Aug-2008 : Don't store totalWeight of subplots, calculate it as
  required (DG);
* 21-Dec-2011 : Apply patch 3447161 by Ulrich Voigt and Martin Hoeller (MH);
* 21-Jul-2014 : Override isRangePannable() and setRangePannable() - motivated
  by patch #304 by Ulrich Voigt (DG);
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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XYAnnotationEntity.java

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Changes:
--------
29-Sep-2004: Version 1 (DG);

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* ----------------------------------------
* StandardToolTipTagFragmentGenerator.java
* ----------------------------------------
* 
* Original Author: Richard Atkinson;
* Contributors: David Gilbert (for Object Refinery Limited);
* 
* Changes
* ------
* 12-Aug-2003 : Version 1 (RA);
* 04-Dec-2007 : Escape tool tip text to fix bug 1400917 (DG);
* */

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* Original Author: David Gilbert (for Object Refinery Limited); 
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* Changes:
* -------
* 28-Jan-2009 : Version 1 (DG);
* 
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* Changes
* -----
* 16-Jan-2003 : Version 1 (DG);
* 17-Jan-2003 : Renamed PaintSupplier --> DrawingSupplier (DG);
* ------------ JFREECHART 1.0.x ---------------------------------------------
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*
* Original Author: David Gilbert (for Object Refinery Limited);
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*
* Changes:
* --------
* 02-Oct-2006 : Version 1 (DG);
* 13-Nov-2007 : Added equals() and hashCode() methods (DG);
* *
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Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* 
* Changes
* -------
* 20-Oct-2006 : Version 1 (DG);
* 13-Feb-2007 : Added several new accessor methods (DG);
* 09-Jan-2014 : Added add(XYIntervalDataItem, boolean) method (DG);
* */

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 * ---------------------------------
 *
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*
* Changes
* -------
* 13-Dec-2001 : Version 1 (DG);
* 16-Jan-2002 : Completed Javadoc (DG);
* 02-Apr-2002 : Modified to handle null y-values (DG);
* 09-Apr-2002 : Added formatting objects for the x and y values (DG);
* 30-May-2002 : Added series name to standard tool tip (DG);
* 26-Sep-2002 : Fixed errors reported by Checkstyle (DG);
* 23-Mar-2003 : Implemented Serializable (DG);
* 13-Aug-2003 : Implemented Cloneable (DG);
* 17-Nov-2003 : Implemented PublicCloneable (DG);
* 25-Feb-2004 : Renamed XYToolTipGenerator --> XYItemLabelGenerator and
  * StandardXYToolTipGenerator -->
  * StandardXYItemLabelGenerator (DG);
* 26-Feb-2004 : Modified to use MessageFormat (DG);
* 27-Feb-2004 : Added abstract superclass (DG);
* 11-May-2004 : Split into StandardXYToolTipGenerator and
  * StandardXYLabelGenerator (DG);
* 20-Apr-2005 : Renamed StandardXYLabelGenerator
  * --> StandardXYItemLabelGenerator (DG);
* 25-Jan-2007 : Added new constructor - see bug 1624067 (DG);
* 24-Jun-2009 : Added new constructor (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/StandardXYItemLabelGenerator.java
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*
* Original Author: David M. O'Donnell;
* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* -------
* 26-Nov-2002 : Version 1 contributed by David M. O'Donnell (DG);
* 20-May-2004 : Added equals() and clone() methods and implemented
* Serializable (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* *
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/entity/ContourEntity.java

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* *
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Mark Watson (www.markwatson.com);
* *
* Changes
* -------
* 23-Oct-2001 : Version 1 (DG);
* 16-Jan-2002 : Renamed HorizontalCategoryItemRenderer.java
*              --> CategoryItemRenderer.java (DG);
* 05-Feb-2002 : Changed return type of the drawCategoryItem method from void
*              to Shape, as part of the tooltips implementation (DG)
*              NOTE (30-May-2002) : this has subsequently been changed back
*              to void, tooltips are now collected along with entities in
*              ChartRenderingInfo (DG);
* 14-Mar-2002 : Added the initialise method, and changed all bar plots to use
*              this renderer (DG);
* 23-May-2002 : Added ChartRenderingInfo to the initialise method (DG);
* 29-May-2002 : Added the getAxisArea(Rectangle2D) method (DG);
* 06-Jun-2002 : Updated Javadoc comments (DG);
* 26-Jun-2002 : Added range axis to the initialise method (DG);
* 24-Sep-2002 : Added getLegendItem() method (DG);
* 23-Oct-2002 : Added methods to get/setToolTipGenerator (DG);
* 05-Nov-2002 : Replaced references to CategoryDataset with TableDataset (DG);
* 06-Nov-2002 : Added the domain axis to the drawCategoryItem method. Renamed
drawCategoryItem() --> drawItem() (DG);
* 20-Nov-2002 : Changed signature of drawItem() method to reflect use of
*              TableDataset (DG);
* 26-Nov-2002 : Replaced the isStacked() method with the getRangeType()
* method (DG);
* 08-Jan-2003 : Changed getSeriesCount() --> getRowCount() and
  getCategoryCount() --> getColumnCount() (DG);
* 09-Jan-2003 : Changed name of grid-line methods (DG);
* 21-Jan-2003 : Merged TableDataset with CategoryDataset (DG);
* 10-Apr-2003 : Changed CategoryDataset to KeyedValues2DDataset in
  drawItem() method (DG);
* 29-Apr-2003 : Eliminated Renderer interface (DG);
* 02-Sep-2003 : Fix for bug 790407 (DG);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 20-Oct-2003 : Added setOutlinePaint() method (DG);
* 06-Feb-2004 : Added missing methods, and moved deprecated methods (DG);
* 19-Feb-2004 : Added extra setXXXLabelsVisible() methods (DG);
* 29-Apr-2004 : Changed Integer --> int in initialise() method (DG);
* 18-May-2004 : Added methods for item label paint (DG);
* 05-Nov-2004 : Added getPassCount() method and 'pass' parameter to drawItem()
  method (DG);
* 07-Jan-2005 : Renamed getRangeExtent() --> findRangeBounds (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
* 23-Feb-2005 : Now extends LegendItemSource (DG);
* 20-Apr-2005 : Renamed CategoryLabelGenerator
  --> CategoryItemLabelGenerator (DG);
* 20-May-2005 : Added drawDomainMarker() method (DG);
* --------------- JFREECHART 1.0.x ---------------------------------------------
* 20-Feb-2007 : Updated API docs (DG);
* 19-Apr-2007 : Deprecated seriesVisible and seriesVisibleInLegend flags (DG);
* 20-Apr-2007 : Deprecated paint, fillPaint, outlinePaint, stroke,
  outlineStroke, shape, itemLabelsVisible, itemLabelFont,
  itemLabelPaint, positiveItemLabelPosition,
  negativeItemLabelPosition and createEntities override
  fields (DG);
* 26-Jun-2008 : Added new method required for crosshair support - THIS CHANGES
  THE API as of version 1.0.11 (DG);
*/

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Contributor(s): David Gilbert (for Object Refinery Limited);

Changes
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23-May-2003 : Version 1 (BK);
15-Aug-2003 : Implemented Cloneable (DG);
01-Jun-2004 : Modified to compile with JDK 1.2.2 (DG);
30-Sep-2004 : Replaced getTime().getTime() with getTimeInMillis() (DG);
04-Nov-2004 : Reverted change of 30-Sep-2004, won't work with JDK 1.3 (DG);
11-Jan-2005 : Removed deprecated code in preparation for 1.0.0 release (DG);
---------------------- JFREECHART 1.0.x -------------------------------
14-Nov-2006 : Fix in toTimelineValue(long) to avoid stack overflow (DG);
02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
11-Jul-2007 : Fixed time zone bugs (DG);
06-Jun-2008 : Performance enhancement posted in forum (DG);

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* Changes:
* _______
* 22-Oct-2004 : Version 1 (DG);
* 11-Feb-2005 : Modified arrange() method to return Size2D (DG);
* 22-Apr-2005 : Reordered arguments in arrange() method (DG);
* 
* */

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  * 27-Mar-2003 : Version 1 (DG);

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* Changes:
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* 19-Jun-2008 : Version 1 (DG);
* 15-Aug-2008 : Use renderer's shadow paint (DG);
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* Changes:
* --------
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* 02-Jul-2013 : Use ParamChecks (DG);
*
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 * ---------------
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 *
 * Original Author:  David Gilbert (for Object Refinery Limited);
 * Contributor(s):  Peter Kolb (patch 2511330);
 *
 * Changes
 * -------
 *
 * 09-Jan-2004 : Version 1 (DG);
 * 05-Nov-2004 : Modified drawItem() signature (DG);
 * 20-Apr-2005 : Renamed CategoryLabelGenerator
 *               --> CategoryItemLabelGenerator (DG);
 * 23-Jan-2006 : Renamed getMaxItemWidth() --> getMaximumItemWidth() (DG);
 * 13-May-2008 : Code clean-up (DG);
 * 26-Jun-2008 : Added crosshair support (DG);
 * 23-Jan-2009 : Set more appropriate default shape in legend (DG);
 * 23-Jan-2009 : Added support for seriesVisible flags - see patch
 *               2511330 (PK)
 *
 */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/renderer/category/LevelRenderer.java
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* XYCrosshairState.java
* ---------------------
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* 
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* 
* Changes
* ------
* 26-Jun-2008 : Version 1 (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/XYCrosshairState.java
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* LineUtilities.java
* ---------------
*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* ------
* 05-Nov-2008 : Version 1 (DG);
* 28-Feb-2014 : Added extendLine() (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/util/LineUtilities.java
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- StandardXYBarPainter.java
- StandardXYBarPainter.java
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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): -;

Changes:
---------
19-Jun-2008 : Version 1 (DG);

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PaintScaleLegend.java

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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): Peter Kolb - see patch 2686872;

Changes

22-Jan-2007: Version 1 (DG);
18-Jun-2008: Fixed bug drawing scale with log axis (DG);
16-Apr-2009: Patch 2686872 implementing AxisChangeListener, and fix for
 ignored stripOutlineVisible flag (DG);
03-Jul-2013: Use ParamChecks (DG);

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* ItemLabelAnchor.java
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* ------
* 29-Apr-2003 : Version 1 (DG);
* 19-Feb-2004 : Moved to org.jfree.chart.labels package, added readResolve()
* method (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
* release (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/labels/ItemLabelAnchor.java

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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes (from 18-Sep-2001)
* --------------------------
* 18-Sep-2001: Added standard header and fixed DOS encoding problem (DG);
* 15-Oct-2001: Moved to a new package (com.jrefinery.data.*) (DG);
* 22-Oct-2001: Changed name to Dataset.java (DG);
* 17-Nov-2001: Added getLegendItemCount() and getLegendItemLabels() methods,
*               created SeriesDataset interface and transferred series related
*               methods out (DG);
* 22-Jan-2002: Reconsidered (and removed) the getLegendItemCount() and
*               getLegendItemLabels() methods...leave this to client code (DG);
* 27-Sep-2002: Added get/setDatasetGroup() methods (DG);
* 10-Jan-2003: Updated Javadocs (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/data/general/Dataset.java
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* Changes
* -------
* 26-Jun-2008 : Version 1 (DG);
* /

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jar/org/jfree/chart/plot/CategoryCrosshairState.java
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Crosshair.java
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--------
13-Feb-2009 : Version 1 (DG);
02-Jul-2013 : Use ParamChecks (DG);

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* Changes
* -------
* 03-Oct-2006 : Version 1 (DG);
* 06-Mar-2007 : Fix for hashCodeForDoubleArray() method (DG);
* 13-Nov-2007 : Added new utility methods (DG);
* 22-Nov-2007 : Added hashcode() method for 'int' (DG);
* 05-Dec-2007 : Added special methods to handle BooleanList, PaintList,
  * and StrokeList (DG);
*
*/

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  * /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  * jar/org/jfree/chart/HashUtilities.java
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* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Michael Siemer;
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* Changes:
* --------
* 01-Nov-2006 : Version 1 (DG);
* 23-Nov-2006 : Added argument checks, updated equals(), added clone() and
*               hashCode() (DG);
* 15-Feb-2008 : Applied patch 1873328 by Michael Siemer, with minor
*               modifications (DG);
* 01-Sep-2008 : Added new fields for hour and minute formatting, based on
*               patch 2033092 (DG);
* 02-Jul-2013 : Use ParamChecks, and fix NB warnings (DG);
* *
*
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* Changes:
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* 22-Oct-2004 : Version 1 (DG);
* 19-Apr-2005 : Added optional tooltip and URL text items,
* draw() method now returns entities if
* requested (DG);
* 13-May-2005 : Added methods to set the font (DG);
* 01-Sep-2005 : Added paint management (PMLB);
* Implemented equals() and clone() (PublicCloneable) (DG);
* --------------------- JFREECHART 1.0.x -------------------------------
* 20-Jul-2006 : Fixed entity area in draw() method (DG);
* 16-Mar-2007 : Fixed serialization when using GradientPaint (DG);
* 10-Feb-2009 : Added alignment fields (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
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* Contributor(s): Richard Atkinson;
*               Christian W. Zuckscherdt;
*               Bill Kelemen;
*               Marc van Glabbeek (bug 1775452);
*               Richard West, Advanced Micro Devices, Inc.;
*               
* Changes
* ------
* 13-Dec-2001 : Version 1, makes VerticalXYBarPlot class redundant (DG);
* 23-Jan-2002 : Added DrawInfo parameter to drawItem() method (DG);
* 09-Apr-2002 : Removed the translated zero from the drawItem method. Override
the initialise() method to calculate it (DG);
* 24-May-2002 : Incorporated tooltips into chart entities (DG);
* 25-Jun-2002 : Removed redundant import (DG);
* 05-Aug-2002 : Small modification to drawItem method to support URLs for HTML
  * image maps (RA);
* 25-Mar-2003 : Implemented Serializable (DG);
* 01-May-2003 : Modified drawItem() method signature (DG);
* 30-Jul-2003 : Modified entity constructor (CZ);
* 20-Aug-2003 : Implemented Cloneable and PublicCloneable (DG);
* 24-Aug-2003 : Added null checks in drawItem (BK);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 07-Oct-2003 : Added renderer state (DG);
* 05-Dec-2003 : Changed call to obtain outline paint (DG);
* 10-Feb-2004 : Added state class, updated drawItem() method to make
  * cut-and-paste overriding easier, and replaced property change
  * with RendererChangeEvent (DG);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState (DG);
* 26-Apr-2004 : Added gradient paint transformer (DG);
* 19-May-2004 : Fixed bug (879709) with bar zero value for secondary axis (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with
  * getYValue() (DG);
* 01-Sep-2004 : Added a flag to control whether or not the bar outlines are
  * drawn (DG);
* 03-Sep-2004 : Added option to use y-interval from dataset to determine the
  * length of the bars (DG);
* 08-Sep-2004 : Added equals() method and updated clone() method (DG);
* 26-Jan-2005 : Added override for getLegendItem() method (DG);
* 20-Apr-2005 : Use generators for label tooltips and URLs (DG);
* 19-May-2005 : Added minimal item label implementation - needs improving (DG);
* 14-Oct-2005 : Fixed rendering problem with inverted axes (DG);
* ------------ JFREECHART 1.0.x ---------------------------------------------
* 21-Jun-2006 : Improved item label handling - see bug 1501768 (DG);
* 24-Aug-2006 : Added crosshair support (DG);
* 13-Dec-2006 : Updated getLegendItems() to return gradient paint
  * transformer (DG);
* 02-Feb-2007 : Changed setUseYInterval() to only notify when the flag
  * changes (DG);
* 06-Feb-2007 : Fixed bug 1086307, crosshairs with multiple axes (DG);
* 09-Feb-2007 : Updated getLegendItem() to observe drawBarOutline flag (DG);
* 05-Mar-2007 : Applied patch 1671126 by Sergei Ivanov, to fix rendering with
  * LogarithmicAxis (DG);
* 20-Apr-2007 : Updated getLegendItem() for renderer change (DG);
* 17-May-2007 : Set datasetIndex and seriesIndex in getLegendItem() (DG);
* 18-May-2007 : Set dataset and seriesKey for LegendItem (DG);
* 15-Jun-2007 : Changed default for drawBarOutline to false (DG);
* 26-Sep-2007 : Fixed bug 1775452, problem with bar margins for inverted
  * axes, thanks to Marc van Glabbeek (DG);
* 12-Nov-2007 : Fixed NPE in drawItemLabel() method, thanks to Richard West
* (see patch 1827829) (DG);
* 17-Jun-2008 : Apply legend font and paint attributes (DG);
* 19-Jun-2008 : Added findRangeBounds() method override to fix bug in default
axis range (DG);
* 24-Jun-2008 : Added new barPainter mechanism (DG);
* 03-Feb-2009 : Added defaultShadowsVisible flag (DG);
* 05-Feb-2009 : Added barAlignmentFactor (DG);
* 10-May-2012 : Fix findDomainBounds() and findRangeBounds() to account for
non-visible series (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*
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*
* Changes
* -------
* 11-Oct-2001 : Version 1 (DG);
* 18-Dec-2001 : Changed order of parameters in constructor (DG);
* 19-Dec-2001 : Added a new constructor as suggested by Paul English (DG);
* 29-Jan-2002 : Worked on the parseWeek() method (DG);
* 13-Feb-2002 : Fixed bug in Week(Date) constructor (DG);
* 26-Feb-2002 : Changed getStart(), getMiddle() and getEnd() methods to
* evaluate with reference to a particular time zone (DG);
* 05-Apr-2002 : Reinstated this class to the JCommon library (DG);
* 24-Jun-2002 : Removed unnecessary main method (DG);
* 10-Sep-2002 : Added getSerialIndex() method (DG);
* 06-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 18-Oct-2002 : Changed to observe 52 or 53 weeks per year, consistent with
* GregorianCalendar. Thanks to Aimin Han for the code (DG);
* 02-Jan-2003 : Removed debug code (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package, and implemented
* Serializable (DG);
* 21-Oct-2003 : Added hashCode() method (DG);
* 24-May-2004 : Modified getFirstMillisecond() and getLastMillisecond() to
* take account of firstDayOfWeek setting in Java's Calendar
* class (DG);
* 30-Sep-2004 : Replaced getTime().getTime() with getTimeInMillis() (DG);
* 04-Nov-2004 : Reverted change of 30-Sep-2004, because it won't work for
* JDK 1.3 (DG);
* 06-Mar-2006 : Fix for bug 1448828, incorrect calculation of week and year
* for the first few days of some years (DG);
* 05-Oct-2006 : Updated API docs (DG);
* 06-Oct-2006 : Refactored to cache first and last millisecond values (DG);
* 09-Jan-2007 : Fixed bug in next() (DG);
* 28-Aug-2007 : Added new constructor to avoid problem in creating new
* instances (DG);
* 19-Dec-2007 : Fixed bug in deprecated constructor (DG);
* 16-Sep-2008 : Deprecated DEFAULT_TIME_ZONE (DG);
* 19-Jul-2012 : Replaced getTime().getTime() with getTimeInMillis() (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
jar/org/jfree/data/time/Week.java
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 * CategoryAxis3D.java
 * -------------------
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 *
 * Original Author:  Klaus Rheinwald;
 * Contributor(s):  Tin Luu,
 *                David Gilbert (for Object Refinery Limited);
 *                Adriaan Joubert;
 *
 * Changes
 * ------
 * 19-Feb-2003 : File creation;
 * 21-Mar-2003 : Added to JFreeChart CVS, see bug id 685501 for code
 *               contribution from KR (DG);
 * 26-Mar-2003 : Implemented Serializable (DG);
 * 13-May-2003 : Renamed HorizontalCategoryAxis3D --> CategoryAxis3D, and
 *               modified to take into account the plot orientation (DG);
 * 14-Aug-2003 : Implemented Cloneable (DG);
 * 21-Aug-2003 : Fixed draw() method bugs (DG);
* 22-Mar-2004 : Added workaround for bug 920959 (null pointer exception with no renderer) (DG);
* -------------------------- JFREECHART 1.0.x ---------------------------------------------
* 18-Aug-2006 : Fix for bug drawing category labels, thanks to Adriaan Joubert (1277726) (DG);
* 16-Apr-2009 : Draw axis line and tick marks (DG);
* 01-Aug-2013 : Added attributedLabel override to support superscripts, subscripts and more (DG);
* 
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/axis/CategoryAxis3D.java
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* 
* Original Author:  David Gilbert (for Object Refinery Limited);
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* Contributor(s): -;

* Changes
* --------
* 18-Mar-2014 : Version 1 (DG);
* */

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;
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* Changes:
* -------
* 22-Oct-2004 : Version 1 (DG);
* 20-Apr-2005 : Added new draw() method (DG);
* ----------- JFREECHART 1.0.x ---------------------------------------------
* 16-Mar-2007 : Implemented equals() and fixed serialization (DG);
* 08-Apr-2008 : Added code for margin, border and padding in draw()
* method (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* /

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* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;

* Changes:

* ------

* 05-Mar-2003 : Version 1 (DG);
* 27-Aug-2003 : Moved SortOrder from org.jfree.data --> org.jfree.util (DG);
* 12-Jan-2005 : Added accessor methods (DG);
* 23-Sep-2012 : Make this class serializable (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/KeyedValueComparator.java

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* XYPlot.java
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): Craig MacFarlane;
  * Mark Watson (www.markwatson.com);
  * Jonathan Nash;
  * Gideon Krause;
  * Klaus Rheinwald;
  * Xavier Poinsard;
  * Richard Atkinson;
  * Arnaud Lelievre;
  * Nicolas Brodu;
  * Eduardo Ramalho;
  * Sergei Ivanov;
  * Richard West, Advanced Micro Devices, Inc.;
  * Ulrich Voigt - patches 1997549 and 2686040;
  * Peter Kolb - patches 1934255, 2603321 and 2809117;
  * Andrew Mickish - patch 1868749;

* Changes (from 21-Jun-2001)
  * 21-Jun-2001 : Removed redundant JFreeChart parameter from constructors (DG);
  * 18-Sep-2001 : Updated header and fixed DOS encoding problem (DG);
  * 15-Oct-2001 : Data source classes moved to com.jrefinery.data.* (DG);
  * 19-Oct-2001 : Removed the code for drawing the visual representation of each
    * data point into a separate class StandardXYItemRenderer.
    * This will make it easier to add variations to the way the
    * charts are drawn. Based on code contributed by Mark
    * Watson (DG);
  * 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
  * 20-Nov-2001 : Fixed clipping bug that shows up when chart is displayed
    * inside JScrollPane (DG);
  * 12-Dec-2001 : Removed unnecessary 'throws' clauses from constructor (DG);
  * 13-Dec-2001 : Added skeleton code for tooltips. Added new constructor. (DG);
  * 16-Jan-2002 : Renamed the tooltips class (DG);
  * 22-Jan-2002 : Added DrawInfo class, incorporating tooltips and crosshairs.
    * Crosshairs based on code by Jonathan Nash (DG);
  * 05-Feb-2002 : Added alpha-transparency setting based on code by Sylvain
    * Vieujot (DG);
  * 26-Feb-2002 : Updated getMinimumXXX() and getMaximumXXX() methods to handle
    * special case when chart is null (DG);
  * 28-Feb-2002 : Renamed Datasets.java --> DatasetUtilities.java (DG);
  * 28-Mar-2002 : The plot now registers with the renderer as a property change
    * listener. Also added a new constructor (DG);
  * 09-Apr-2002 : Removed the transRangeZero from the renderer.drawItem()
    * method. Moved the tooltip generator into the renderer (DG);
  * 23-Apr-2002 : Fixed bug in methods for drawing horizontal and vertical
    * lines (DG);
  * 13-May-2002 : Small change to the draw() method so that it works for
    * OverlaidXYPlot also (DG);
* 25-Jun-2002 : Removed redundant import (DG);
* 20-Aug-2002 : Renamed getItemRenderer() --> getRenderer(), and
  setXYItemRenderer() --> setRenderer() (DG);
* 28-Aug-2002 : Added mechanism for (optional) plot annotations (DG);
* 02-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 18-Nov-2002 : Added grid settings for both domain and range axis (previously
  these were set in the axes) (DG);
* 09-Jan-2003 : Further additions to the grid settings, plus integrated plot
  border bug fix contributed by Gideon Krause (DG);
* 22-Jan-2003 : Removed monolithic constructor (DG);
* 04-Mar-2003 : Added 'no data' message, see bug report 691634. Added
  secondary range markers using code contributed by Klaus
  Rheinwald (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 03-Apr-2003 : Added setDomainAxisLocation() method (DG);
* 30-Apr-2003 : Moved annotation drawing into a separate method (DG);
* 01-May-2003 : Added multi-pass mechanism for renderers (DG);
* 02-May-2003 : Changed axis locations from int to AxisLocation (DG);
* 15-May-2003 : Added an orientation attribute (DG);
* 02-Jun-2003 : Removed range axis compatibility test (DG);
* 05-Jun-2003 : Added domain and range grid bands (sponsored by Focus Computer
  Services Ltd) (DG);
* 26-Jun-2003 : Fixed bug (757303) in getDataRange() method (DG);
* 02-Jul-2003 : Added patch from bug report 698646 (secondary axes for
  overlaid plots) (DG);
* 23-Jul-2003 : Added support for multiple secondary datasets, axes and
  renderers (DG);
* 27-Jul-2003 : Added support for stacked XY area charts (RA);
* 19-Aug-2003 : Implemented Cloneable (DG);
* 01-Sep-2003 : Fixed bug where change to secondary datasets didn't generate
  change event (797466) (DG)
* 08-Sep-2003 : Added internationalization via use of properties
  resourceBundle (RFE 690236) (AL);
* 08-Sep-2003 : Changed ValueAxis API (DG);
* 08-Sep-2003 : Fixes for serialization (NB);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 17-Sep-2003 : Fixed zooming to include secondary domain axes (DG);
* 18-Sep-2003 : Added getSecondaryDomainAxisCount() and
  getSecondaryRangeAxisCount() methods suggested by Eduardo
  Ramalho (RFE 808548) (DG);
* 23-Sep-2003 : Split domain and range markers into foreground and
  background (DG);
* 06-Oct-2003 : Fixed bug in clearDomainMarkers() and clearRangeMarkers()
  methods. Fixed bug (815876) in addSecondaryRangeMarker()
  method. Added new addSecondaryDomainMarker methods (see bug
  id 815869) (DG);
* 10-Nov-2003 : Added getSecondaryDomain/RangeAxisMappedToDataset() methods
  requested by Eduardo Ramalho (DG);
* 24-Nov-2003 : Removed unnecessary notification when updating axis anchor values (DG);
* 21-Jan-2004 : Update for renamed method in ValueAxis (DG);
* 25-Feb-2004 : Replaced CrosshairInfo with CrosshairState (DG);
* 12-Mar-2004 : Fixed bug where primary renderer is always used to determine range type (DG);
* 22-Mar-2004 : Fixed cloning bug (DG);
* 23-Mar-2004 : Fixed more cloning bugs (DG);
* 07-Apr-2004 : Fixed problem with axis range when the secondary renderer is stacked, see this post in the forum:
  * http://www.jfree.org/phpBB2/viewtopic.php?t=8204 (DG);
* 07-Apr-2004 : Added get/setDatasetRenderingOrder() methods (DG);
* 26-Apr-2004 : Added option to fill quadrant areas in the background of the plot (DG);
* 27-Apr-2004 : Removed major distinction between primary and secondary datasets, renderers and axes (DG);
* 30-Apr-2004 : Modified to make use of the new getRangeExtent() method in the renderer interface (DG);
* 13-May-2004 : Added optional fixedLegendItems attribute (DG);
* 19-May-2004 : Added indexOf() method (DG);
* 03-Jun-2004 : Fixed zooming bug (DG);
* 18-Aug-2004 : Added removedAnnotation() method (by tkram01) (DG);
* 05-Oct-2004 : Modified storage type for dataset-to-axis maps (DG);
* 06-Oct-2004 : Modified getDataRange() method to use renderer to determine the x-value range (now matches behaviour for y-values). Added getDomainAxisIndex() method (DG);
* 12-Nov-2004 : Implemented new Zoomable interface (DG);
* 25-Nov-2004 : Small update to clone() implementation (DG);
* 22-Feb-2005 : Changed axis offsets from Spacer --> RectangleInsets (DG);
* 24-Feb-2005 : Added indexOf(XYItemRenderer) method (DG);
* 21-Mar-2005 : Register plot as change listener in setRenderer() method (DG);
* 21-Apr-2005 : Added get/setSeriesRenderingOrder() methods (ET);
* 26-Apr-2005 : Removed LOGGER (DG);
* 04-May-2005 : Fixed serialization of domain and range markers (DG);
* 05-May-2005 : Removed unused draw() method (DG);
* 20-May-2005 : Added setDomainAxes() and setRangeAxes() methods, as per RFE 1183100 (DG);
* 06-Jun-2005 : Fixed equals() method to handle GradientPaint (DG);
* 09-Jun-2005 : Added setRenderers(), as per RFE 1183100 (DG);
* 06-Jul-2005 : Fixed crosshair bug (id = 1233336) (DG);
* ----------- JFREECHART 1.0.x ---------------------------------------------
* 26-Jan-2006 : Added getAnnotations() method (DG);
* 05-Sep-2006 : Added MarkerChangeEvent support (DG);
22-Nov-2006: Fixed equals() and cloning() for quadrant attributes, plus API doc updates (DG);
29-Nov-2006: Added argument checks (DG);
15-Jan-2007: Fixed bug in drawRangeMarkers() (DG);
07-Feb-2007: Fixed bug 1654215, renderer with no dataset (DG);
26-Feb-2007: Added missing setDomainAxisLocation() and setRangeAxisLocation() methods (DG);
02-Mar-2007: Fix for crosshair positioning with horizontal orientation
(see patch 1671648 by Sergei Ivanov) (DG);
13-Mar-2007: Added null argument checks for crosshair attributes (DG);
23-Mar-2007: Added domain zero base line facility (DG);
04-May-2007: Render only visible data items if possible (DG);
24-May-2007: Fixed bug in render method for an empty series (DG);
07-Jun-2007: Modified drawBackground() to pass orientation to
fillBackground() for handling GradientPaint (DG);
24-Sep-2007: Added new zoom methods (DG);
26-Sep-2007: Include index value in IllegalArgumentExceptions (DG);
05-Nov-2007: Applied patch 1823697, by Richard West, for removal of domain
and range markers (DG);
12-Nov-2007: Fixed bug in equals() method for domain and range tick
band paint attributes (DG);
27-Nov-2007: Added new setFixedDomain/RangeAxisSpace() methods (DG);
04-Jan-2008: Fix for quadrant painting error - see patch 1849564 (DG);
25-Mar-2008: Added new methods with optional notification - see patch
1913751 (DG);
07-Apr-2008: Fixed NPE in removeDomainMarker() and
removeRangeMarker() (DG);
22-May-2008: Modified calculateAxisSpace() to process range axes first,
then adjust the plot area before calculating the space
for the domain axes (DG);
09-Jul-2008: Added renderer state notification when series pass begins
and ends - see patch 1997549 by Ulrich Voigt (DG);
25-Jul-2008: Fixed NullPointerException for plots with no axes (DG);
15-Aug-2008: Added getRendererCount() method (DG);
25-Sep-2008: Added minor tick support, see patch 1934255 by Peter Kolb (DG);
25-Nov-2008: Allow datasets to be mapped to multiple axes - based on patch
1868749 by Andrew Mickish (DG);
18-Dec-2008: Use ResourceBundleWrapper - see patch 1607918 by
Jess Thrysoee (DG);
10-Mar-2009: Allow some annotations to contribute to axis autoRange (DG);
18-Mar-2009: Modified anchored zoom behaviour and fixed bug in
"process visible range" rendering (DG);
19-Mar-2009: Added panning support based on patch 2686040 by Ulrich
Voigt (DG);
19-Mar-2009: Added entity support - see patch 2603321 by Peter Kolb (DG);
30-Mar-2009: Delegate panning to axes (DG);
10-May-2009: Added check for fixedLegendItems in equals(), and code to
handle cloning (DG);
* 24-Jun-2009 : Added support for annotation events - see patch 2809117
  by PK (DG);
* 06-Jul-2009 : Fix for cloning of renderers - see bug 2817504 (DG)
* 10-Jul-2009 : Added optional drop shadow generator (DG);
* 18-Oct-2011 : Fix tooltip offset with shadow renderer (DG);
* 12-Sep-2013 : Check for KEY_SUPPRESS_SHADOW_GENERATION rendering hint (DG);
* 10-Mar-2014 : Updated Javadocs for issue #1123 (DG);
* 29-Jul-2014 : Add hints to normalise stroke for crosshairs (DG);
*
*/

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* Contributor(s): Nicolas Brodu (for Astrium and EADS Corporate Research Center);

* Changes (from 21-Aug-2001)
* --------------------------
* 21-Aug-2001 : Added standard header. Fixed DOS encoding problem (DG);
* 18-Sep-2001 : Updated e-mail address in header (DG);
* 15-Oct-2001 : Moved to new package (com.jrefinery.data.*) (DG);
* 22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
* 17-Nov-2001 : Changed constructor from public to protected, created new AbstractSeriesDataset class and transferred series-related methods, updated Javadoc comments (DG);
* 04-Mar-2002 : Updated import statements (DG);
* 11-Jun-2002 : Updated for change in the event constructor (DG);
* 07-Aug-2002 : Changed listener list to use javax.swing.event.EventListenerList (DG);
* 04-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 27-Mar-2003 : Implemented Serializable (DG);
* 18-Aug-2003 : Implemented Cloneable (DG);
* 08-Sep-2003 : Serialization fixes (NB);
* 11-Sep-2003 : Cloning Fixes (NB);
* 01-Jun-2005 : Added hasListener() method for unit testing (DG);
* 03-Jul-2013 : Use ParamChecks (DG);
* 21-Nov-2013 : Added notify flag to allow suppressing change events temporarily (DG);

*/

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* Contributor(s): David Gilbert (for Object Refinery Limited);
*
* Changes
* ------
* 05-Aug-2003 : Version 1, contributed by David Browning (DG);
* 28-Aug-2003 : Minor tidy-up including Javadocs (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Removed author tags from all over JFreeChart sources (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/renderer/OutlierList.java

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* *
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
* *
* Changes:
* -------
* 24-Feb-2005 : Version 1 (DG);
* *
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jar/org/jfree/data/RangeType.java
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* ----------------------------

* ContourToolTipGenerator.java
* ----------------------------

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* Original Author: David M. O'Donnell;
* Contributor(s): David Gilbert (for Object Refinery Limited);

* Changes
* ------
* 23-Jan-2003 : Added standard header (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 02-Feb-2007 : Deprecated (DG);

*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/labels/ContourToolTipGenerator.java

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MultiValueCategoryDataset.java

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Original Author: David Forslund;
Contributor(s): David Gilbert (for Object Refinery Limited);

Changes
-------
08-Oct-2007 : Version 1, see patch 1780779 (DG);

Found in path(s):
/opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/statistics/MultiValueCategoryDataset.java
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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/xml/CategoryDatasetHandler.java
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* Original Author: David Gilbert;
* Contributor(s): Adriaan Joubert;
* *
* Changes
* -------
* 12-May-2004 : Version 1 (DG);
* 30-Sep-2004 : Moved drawRotatedString() from RefineryUtilities
*    --> TextUtilities (DG);
* 26-Apr-2005 : Removed logger (DG);
* ------------- JFREECHART 1.0.x ---------------------------------------------
* 18-Aug-2006 : Fix for bug drawing category labels, thanks to Adriaan
*    Joubert (1277726) (DG);
* 30-May-2007 : Added argument check and event notification to
*    addSubCategory() (DG);
* 13-Nov-2008 : Fix NullPointerException when dataset is null - see bug
*    report 2275695 (DG);
* 02-Jul-2013 : Use ParamChecks (DG);
* 01-Aug-2013 : Added attributedLabel override to support superscripts,
*    subscripts and more (DG);
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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---------
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Changes
-------
04-Dec-2006 : Version 1 (DG);
23-May-2009 : Implemented hashCode() (DG);

*/

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jar/org/jfree/data/time/ohlc/OHLC.java

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* Changes:
* --------
* 22-Oct-2004 : Version 1 (DG);
* 08-Feb-2005 : Added ID (DG);
* 20-Apr-2005 : Added a new draw() method that can accept params
* and return results (DG);
* *
* /*

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* 
* Original Author: Bill Kelemen;
* Contributor(s): David Gilbert (for Object Refinery Limited);
* 
* Changes
* -------
* 23-May-2003 : Version 1 (BK);
* 09-Sep-2003 : Changed some method and parameter names (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1.0-19-sources-
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*
* Changes:
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* 25-Jun-2014 : Version 1 (DG);
*
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* Changes:
* 08-Mar-2005 : Version 1 (DG);
* 20-Jul-2006 : Set bounds of contained block when arranging (DG);

(/

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*  
* Original Author: Martin Hoeller (base on DefaultNumberAxisEditor
*  
* by David Gilbert);
*  
* Contributor(s): -;
*  
* Changes
*  
* -------
*  
* 03-Nov-2011 : Version 1, based on DefaultNumberAxisEditor.java (MH);
*  
* */

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* Original Author:  DaveLaw (dave ATT davelaw DOT de);
* Contributor(s):  David Gilbert (for Object Refinery Limited);
* 
* Changes
* ------
* 09-Mar-2011 : Written (DaveLaw)
* 03-Jul-2012 : JDK 1.6 References made reflective for JDK 1.3 compatibility
*     (DaveLaw);
* 16-Sep-2013 : Removed reflection since we are requiring JDK 1.6 now (DG)
*
*/

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*
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* Contributor(s):  David Gilbert (for Object Refinery Limited);
Zoheb Borbora;

* Changes
* -------
* 28-Aug-2003 : Version 1 (AL);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 07-Oct-2003 : Added renderer state (DG);
* 21-Oct-2003 : Bar width moved to renderer state (DG);
* 05-Nov-2004 : Modified drawItem() signature (DG);
* 20-Apr-2005 : Renamed CategoryLabelGenerator
*               --> CategoryItemLabelGenerator (DG);
* 17-Nov-2005 : Added support for gradient paint (DG);
* 18-Aug-2006 : Fixed the bar width calculation to respect the maximum bar
*               width setting (thanks to Zoheb Borbora) (DG);
* 02-Feb-2007 : Removed author tags all over JFreeChart sources (DG);
* 19-May-2009 : Fixed FindBugs warnings, patch by Michal Wozniak (DG);
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DefaultHeatMapDataset.java

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Changes:
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* Changes:
* ------
* 15-Feb-2009 : Version 1 (PK);
* 02-Jul-2013 : Use ParamChecks (DG);
*
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* 
* ----------------
* ShadowGenerator.java
* Changes
* ------
* 15-Nov-2001 : Version 1 (DG);
* 18-Aug-2003 : Implemented Serializable (DG);
* 
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/data/general/SeriesChangeEvent.java
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* SlidingCategoryDataset.java
* ---------------------------
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* *
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;
* *
* Changes
* -------
* 08-May-2008 : Version 1 (DG);
* 15-Mar-2009 : Fixed bug in getColumnKeys() method (DG);
* */

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-l-0-19-sources-jar/org/jfree/data/category/SlidingCategoryDataset.java
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    * RendererState.java
    * *************
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    * 
    * Original Author: David Gilbert (for Object Refinery Limited);
    * Contributor(s): -;
    * 
    * Changes:
    * -------
    * 07-Oct-2003 : Version 1 (DG);
* 09-Jun-2005 : Added a convenience method to access the entity collection (DG);

*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources.jar/org/jfree/chart/renderer/RendererState.java
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 * -------------------------
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 *
 * Original Author: David Gilbert (for Object Refinery Limited);
 * Contributor(s): -;
 *
 * Changes:
 * -------
 * 19-Jun-2008 : Version 1 (DG);
 * 22-Feb-2009 : Fixed bug drawing outlines (DG);
Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/renderer/xy/GradientXYBarPainter.java
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 * EntityCollection.java
 */
/* ---------------
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 */
/* Original Author:  David Gilbert (for Object Refinery Limited); */
/* Contributor(s):  -; */
/* Changes */
/* -------
 * 23-May-2002 : Version 1 (DG);
 * 25-Jun-2002 : Removed unnecessary import (DG);
 * 26-Jun-2002 : Added iterator() method (DG);
 * 03-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 30-Jan-2004 : Added a method to add a collection of entities.
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
  release (DG);
* 18-Jan-2005 : Added getEntity() and getEntityCount() methods (DG);

*/

Found in path(s):
* /opt/cola/permits/1001218797_165402912.96561260/jfreechart-1-0-19-sources-
  jar/org/jfree/chart/entity/EntityCollection.java
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* *
* Original Author:  David Gilbert (for Object Refinery Limited);
* Contributor(s):  -;
* *
* Changes
* ------
* 11-Oct-2001 : Version 1 (DG);
* 18-Dec-2001 : Changed order of parameters in constructor (DG);
* 19-Dec-2001 : Added a new constructor as suggested by Paul English (DG);
* 29-Jan-2002 : Added a new method parseQuarter(String) (DG);
* 14-Feb-2002 : Fixed bug in Quarter(Date) constructor (DG);
* 26-Feb-2002 : Changed getStart(), getMiddle() and getEnd() methods to
  evaluate with reference to a particular time zone (DG);
* 19-Mar-2002 : Changed API for TimePeriod classes (DG);
* 24-Jun-2002 : Removed main method (just test code) (DG);
* 10-Sep-2002 : Added getSerialIndex() method (DG);
* 07-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 10-Jan-2003 : Changed base class and method names (DG);
* 13-Mar-2003 : Moved to com.jrefinery.data.time package, and implemented
  Serializable (DG);
* 21-Oct-2003 : Added hashCode() method (DG);
* 10-Dec-2005 : Fixed argument checking bug (1377239) in constructor (DG);
* 05-Oct-2006 : Updated API docs (DG);
* 06-Oct-2006 : Refactored to cache first and last millisecond values (DG);
* 16-Sep-2008 : Deprecated DEFAULT_TIME_ZONE (DG);
* 25-Nov-2008 : Added new constructor with Locale (DG);
* 05-Jul-2012 : REmoved JDK 1.3.1 supporting code (DG);
*
*/

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* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
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* Changes:
* -------
* 19-Apr-2005 : Version 1 (DG);
*
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-
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* MeterPlot.java
* --------------
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* 
* Original Author: Hari (ourhari@hotmail.com);
* Contributor(s): David Gilbert (for Object Refinery Limited);
* Bob Orchard;
* Arnaud Lelievre;
* Nicolas Brodu;
* David Bastend;
* 
* Changes
* -------
* 01-Apr-2002 : Version 1, contributed by Hari (DG);
* 23-Apr-2002 : Moved dataset from JFreeChart to Plot (DG);
* 22-Aug-2002 : Added changes suggest by Bob Orchard, changed Color to Paint
* for consistency, plus added Javadoc comments (DG);
* 01-Oct-2002 : Fixed errors reported by Checkstyle (DG);
* 23-Jan-2003 : Removed one constructor (DG);
* 26-Mar-2003 : Implemented Serializable (DG);
* 20-Aug-2003 : Changed dataset from MeterDataset --> ValueDataset, added
* equals() method,
* 08-Sep-2003 : Added internationalization via use of properties
* resourceBundle (RFE 690236) (AL);
* implemented Cloneable, and various other changes (DG);
* 08-Sep-2003 : Added serialization methods (NB);
* 11-Sep-2003 : Added cloning support (NB);
* 16-Sep-2003 : Changed ChartRenderingInfo --> PlotRenderingInfo (DG);
* 25-Sep-2003 : Fix useless cloning. Correct dataset listener registration in
* constructor. (NB)
* 29-Oct-2003 : Added workaround for font alignment in PDF output (DG);
* 17-Jan-2004 : Changed to allow dialBackgroundPaint to be set to null - see
* bug 823628 (DG);
* 07-Apr-2004 : Changed string bounds calculation (DG);
* 12-May-2004 : Added tickLabelFormat attribute - see RFE 949566. Also
* updated the equals() method (DG);
* 02-Nov-2004 : Added sanity checks for range, and only draw the needle if the
* value is contained within the overall range - see bug report
* 1056047 (DG);
* 11-Jan-2005 : Removed deprecated code in preparation for the 1.0.0
* release (DG);
* 02-Feb-2005 : Added optional background paint for each region (DG);
22-Mar-2005: Removed 'normal', 'warning' and 'critical' regions and put in facility to define an arbitrary number of MeterIntervals, based on a contribution by David Bastend (DG);
20-Apr-2005: Small update for change to LegendItem constructors (DG);
05-May-2005: Updated draw() method parameters (DG);
08-Jun-2005: Fixed equals() method to handle GradientPaint (DG);
10-Nov-2005: Added tickPaint, tickSize and valuePaint attributes, and put value label drawing code into a separate method (DG);
22-Mar-2005: Removed 'normal', 'warning' and 'critical' regions and put in facility to define an arbitrary number of MeterIntervals, based on a contribution by David Bastend (DG);
20-Apr-2005: Small update for change to LegendItem constructors (DG);
05-May-2005: Updated draw() method parameters (DG);
08-Jun-2005: Fixed equals() method to handle GradientPaint (DG);
10-Nov-2005: Added tickPaint, tickSize and valuePaint attributes, and put value label drawing code into a separate method (DG);
------------- JFREECHART 1.0.x ---------------------------------------------
05-Mar-2007: Restore clip region correctly (see bug 1667750) (DG);
18-May-2007: Set dataset for LegendItem (DG);
29-Nov-2007: Fixed serialization bug with dialOutlinePaint (DG);
18-Dec-2008: Use ResourceBundleWrapper - see patch 1607918 by Jess Thrysoee (DG);
02-Jul-2013: Use ParamChecks (DG);
*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1-0-19-sources-jar/org/jfree/chart/plot/MeterPlot.java
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DatasetUtilities.java

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Original Author: David Gilbert (for Object Refinery Limited);
Contributor(s): Andrzej Porebski (bug fix);
               Jonathan Nash (bug fix);
               Richard Atkinson;
               Andreas Schroeder;
               Rafał Skalny (patch 192536);
               Jerome David (patch 2131001);
               Peter Kolb (patch 2791407);
               Martin Hoeller (patch 2952086);

Changes (from 18-Sep-2001)

18-Sep-2001 : Added standard header and fixed DOS encoding problem (DG);
22-Oct-2001 : Renamed DataSource.java --> Dataset.java etc. (DG);
15-Nov-2001 : Moved to package com.jrefinery.data.* in the JCommon class library (DG);
         Changed to handle null values from datasets (DG);
         Bug fix (thanks to Andrzej Porebski) - initial value now set to positive or negative infinity when iterating (DG);
22-Nov-2001 : Datasets with containing no data now return null for min and max calculations (DG);
13-Dec-2001 : Extended to handle HighLowDataset and IntervalXYDataset (DG);
15-Feb-2002 : Added getMinimumStackedRangeValue() and getMaximumStackedRangeValue() (DG);
28-Feb-2002 : Renamed Datasets.java --> DatasetUtilities.java (DG);
18-Mar-2002 : Fixed bug in min/max domain calculation for datasets that implement the CategoryDataset interface AND the XYDataset interface at the same time. Thanks to Jonathan Nash for the fix (DG);
23-Apr-2002 : Added getDomainExtent() and getRangeExtent() methods (DG);
13-Jun-2002 : Modified range measurements to handle IntervalCategoryDataset (DG);
12-Jul-2002 : Method name change in DomainInfo interface (DG);
30-Jul-2002 : Added pie dataset summation method (DG);
01-Oct-2002 : Added a method for constructing an XYDataset from a Function2D instance (DG);
24-Oct-2002 : Amendments required following changes to the CategoryDataset interface (DG);
18-Nov-2002 : Changed CategoryDataset to TableDataset (DG);
04-Mar-2003 : Added isEmpty(XYDataset) method (DG);
05-Mar-2003 : Added a method for creating a CategoryDataset from a KeyedValues instance (DG);
* 15-May-2003 : Renamed isEmpty --> isEmptyOrNull (DG);
* 25-Jun-2003 : Added limitPieDataset methods (RA);
* 26-Jun-2003 : Modified getDomainExtent() method to accept null datasets (DG);
* 27-Jul-2003 : Added getStackedRangeExtent(TableXYDataset data) (RA);
* 18-Aug-2003 : getStackedRangeExtent(TableXYDataset data) now handles null values (RA);
* 02-Sep-2003 : Added method to check for null or empty PieDataset (DG);
* 18-Sep-2003 : Fix for bug 803660 (getMaximumRangeValue for CategoryDataset) (DG);
* 20-Oct-2003 : Added getCumulativeRangeExtent() method (DG);
* 09-Jan-2004 : Added argument checking code to the createCategoryDataset() method (DG);
* 23-Mar-2004 : Fixed bug in getMaximumStackedRangeValue() method (DG);
* 31-Mar-2004 : Exposed the extent iteration algorithms to use one of them and applied noninstantiation pattern (AS);
* 11-May-2004 : Renamed getPieDatasetTotal --> calculatePieDatasetTotal (DG);
* 15-Jul-2004 : Switched getX() with getXValue() and getY() with getYValue();
* 24-Aug-2004 : Added argument checks to createCategoryDataset() method (DG);
* 04-Oct-2004 : Renamed ArrayUtils --> ArrayUtilities (DG);
* 06-Oct-2004 : Renamed findDomainExtent() --> findDomainBounds(), findRangeExtent() --> findRangeBounds() (DG);
* 07-Jan-2005 : Renamed findStackedRangeExtent() --> findStackedRangeBounds(), findCumulativeRangeExtent() --> findCumulativeRangeBounds(), iterateXYRangeExtent() --> iterateXYRangeBounds(), removed deprecated methods (DG);
* 03-Feb-2005 : The findStackedRangeBounds() methods now return null for empty datasets (DG);
* 03-Mar-2005 : Moved createNumberArray() and createNumberArray2D() methods from DatasetUtilities --> DataUtilities (DG);
* 22-Sep-2005 : Added new findStackedRangeBounds() method that takes base argument (DG);
* ------------ JFREECHART 1.0.x -------------------------------
* 15-Mar-2007 : Added calculateStackTotal() method (DG);
* 27-Mar-2008 : Fixed bug in findCumulativeRangeBounds() method (DG);
* 28-Mar-2008 : Fixed sample count in sampleFunction2D() method, renamed iterateXYRangeBounds() --> iterateRangeBounds(XYDataset), and fixed a bug in findRangeBounds(XYDataset, false) (DG);
* 28-Mar-2008 : Applied a variation of patch 1925366 (from Rafal Skalny) for slightly more efficient iterateRangeBounds() methods (DG);
* 08-Apr-2008 : Fixed typo in iterateRangeBounds() (DG);
* 08-Oct-2008 : Applied patch 2131001 by Jerome David, with some modifications and additions and some new unit tests (DG);
* 12-Feb-2009 : Added sampleFunction2DToSeries() method (DG);
* 27-Mar-2009 : Added new methods to find domain and range bounds taking into account hidden series (DG);
* 01-Apr-2009 : Handle a StatisticalCategoryDataset in iterateToFindRangeBounds() (DG);
* 16-May-2009 : Patch 2791407 - fix iterateToFindRangeBounds for
* MultiValueCategoryDataset (PK);
* 10-Sep-2009 : Fix bug 2849731 for IntervalCategoryDataset (DG);
* 16-Feb-2010 : Patch 2952086 - find z-bounds (MH);
* 02-Jul-2013 : Use ParamChecks (DG);
* /

Found in path(s):
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* VectorSeries.java
* ------------------
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*
* Original Author: David Gilbert (for Object Refinery Limited);
* Contributor(s): -;
*
* Changes
* ------
* 30-Jan-2007 : Version 1 (DG);
* 24-May-2007 : Renamed getDeltaXValue() --> getVectorXValue(), and likewise
  for getDeltaYValue() (DG);
* 25-May-2007 : Added remove(int) and clear() methods, and moved from the
  experimental to the main source tree (DG);
* 27-Nov-2007 : Removed redundant clear() method (DG);
* 09-Jan-2014 : Added add(VectorDataItem, boolean) method (DG);

*/

Found in path(s):
* /opt/cola/permits/1001218797_1654022912.9656126/0/jfreechart-1.0-19-sources-
  jar/org/jfree/data/xy/VectorSeries.java

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package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD_TIME$";
}

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1.2205 jcommon 1.0.16

1.2205.1 Available under license:
/* ========================================================================
* JCommon : a free general purpose class library for the Java(tm) platform
* ========================================================================
* */
package org.jfree.ui.about;

/**
 * A simple class representing a contributor to a software project.
 * <p>
 * Used in the AboutFrame class.
 */

package org.jfree.ui.about;
public class Contributor {

    /** The name. */
    private String name;

    /** The e-mail address. */
    private String email;

    /**
     * Creates a new contributor.
     * @param name  the name.
     * @param email  the e-mail address.
     */
    public Contributor(final String name, final String email) {
        this.name = name;
        this.email = email;
    }

    /**
     * Returns the contributor's name.
     * @return the contributor's name.
     */
    public String getName() {
        return this.name;
    }

    /**
     * Returns the contributor's e-mail address.
     * @return the contributor's e-mail address.
     */
    public String getEmail() {
        return this.email;
    }
}

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* $Id: Licences.java,v 1.4 2005/11/16 15:58:41 taqua Exp $
*
* Changes
* -------
* 26-Nov-2001 : Version 1 (DG);
* 29-Jan-2002 : Appended the instructions to the end of the GNU LGPL and GPL to comply with
* GNU requirements (DG);
* 28-Feb-2002 : Moved to package com.jrefinery.ui.about (DG);
* 08-Oct-2002 : Fixed errors reported by Checkstyle (DG);
*
*/

package org.jfree.ui.about;

/**
 * Contains the full texts of the GNU General Public Licence and the GNU Lesser General Public
 * Licence.
 * <P>
 * These are used in the presentation of a standard 'About' frame.
 *
 * @author David Gilbert
 */
public class Licences {

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```

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public static final String LGPL = "GNU LESSER GENERAL PUBLIC LICENSE

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+ "\n"
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+ "\n"
+ "That's all there is to it!"

/** The singleton instance of this class. */
private static Licences singleton;
/**
 * Returns a reference to this class.
 * @return the instance reference.
 */
public static Licences getInstance() {
    if (singleton == null) {
        singleton = new Licences();
    }
    return singleton;
}

/**
 * Returns the GPL text in a non static way to prevent the compiler
to copy the contents of the field.
 * @return the GPL licence text.
 */
public String getGPL() {
    return GPL;
}

/**
 * Returns the LGPL text in a non static way to prevent the compiler
to copy the contents of the field.
 * @return the LGPL licence text.
 */
public String getLGPL() {
    return LGPL;
}

1.2206 jetty-continuation 8.1.7.v20120910

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1.2207 wildfly-elytron-ssl 1.11.2.Final
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jar/org/wildfly/security/ssl/SNISSLContextSpi.java
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jar/org/wildfly/security/ssl/SNIContextMatcher.java
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* /opt/ws_local/PERMITS_SQL/1091710570_1600571876.2/0/wildfly-elytron-ssl-1-11-2-final-sources-jar/org/wildfly/security/ssl/WrappingX509ExtendedTrustManager.java
* /opt/ws_local/PERMITS_SQL/1091710570_1600571876.2/0/wildfly-elytron-ssl-1-11-2-final-sources-jar/org/wildfly/security/ssl/SSLConfigurator.java
* /opt/ws_local/PERMITS_SQL/1091710570_1600571876.2/0/wildfly-elytron-ssl-1-11-2-final-sources-jar/org/wildfly/security/ssl/SSLConfiguratorImpl.java
* /opt/ws_local/PERMITS_SQL/1091710570_1600571876.2/0/wildfly-elytron-ssl-1-11-2-final-sources-jar/org/wildfly/security/ssl/SSLConfiguratorImpl.java
* /opt/ws_local/PERMITS_SQL/1091710570_1600571876.2/0/wildfly-elytron-ssl-1-11-2-final-sources-jar/org/wildfly/security/ssl/SSLConfiguratorImpl.java
* /opt/ws_local/PERMITS_SQL/1091710570_1600571876.2/0/wildfly-elytron-ssl-1-11-2-final-sources-
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  jar/org/wildfly/security/ssl/X509CRLExtendedTrustManager.java

1.2208 jetty-security 9.4.20.v20190813
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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle
The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/TypeConstraintException.java
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ContextFinder.java
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* /opt/cola/permits/1110676457_1654022995.3533254/0/wildfly-iiop-openjdk-14-0-1-final-sources-1-
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* /opt/cola/permits/1110676457_1654022995.3533254/0/wildfly-iiop-openjdk-14-0-1-final-sources-1.jar/org/wildfly/iiop/openjdk/IIOPSubsystemAdd.java

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  jar/org/wildfly/iiop/openjdk/deployment/IIOPDeploymentMarker.java
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iiop-openjdk.confidentiality=Indicates whether the transport must require confidentiality protection or not. Valid
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jar/org/wildfly/iiop/openjdk/IIOPSubsystemParser_1.java
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jar/org/wildfly/iiop/openjdk/IIOPSubsystemParser_2_0.java
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* /opt/cola/permits/1110676457_1654022995.3533254/0/wildfly-iiop-openjdk-14-0-1-final-sources-1-
  jar/org/wildfly/iiop/openjdk/naming/jndi/CNCtxFactory.java
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* /opt/cola/permits/1110676457_1654022995.3533254/0/wildfly-iiop-openjdk-14-0-1-final-sources-1-
  jar/org/wildfly/iiop/openjdk/TransactionsAllowedValues.java
* /opt/cola/permits/1110676457_1654022995.3533254/0/wildfly-iiop-openjdk-14-0-1-final-sources-1-
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--- Problems for relative address to root []:
Missing attributes in current: []; missing in legacy [server-requires-ssl, server-ssl-context, client-requires-ssl, authentication-context, client-ssl-context]
  Different 'default' for attribute 'confidentiality'. Current: undefined; legacy: "none"
  Different 'default' for attribute 'detect-misordering'. Current: undefined; legacy: "none"
  Different 'default' for attribute 'detect-replay'. Current: undefined; legacy: "none"
  Different 'default' for attribute 'integrity'. Current: undefined; legacy: "none"
  Different 'default' for attribute 'ssl-socket-binding'. Current: undefined; legacy: "iiop-ssl"
  Different 'default' for attribute 'trust-in-client'. Current: undefined; legacy: "none"
  Different 'default' for attribute 'trust-in-target'. Current: undefined; legacy: "none"
Missing parameters for operation 'add' in current: []; missing in legacy [server-requires-ssl, server-ssl-context, client-requires-ssl, authentication-context, client-ssl-context]
*/
The iorTransportconfigType specifies the attributes used to setup the IOR transport settings.

* integrity: indicates whether the transport must require integrity protection or not. Valid values are "none", "supported" and "required".
* confidentiality: indicates whether the transport must require confidentiality protection or not. Valid values are "none", "supported" and "required".
* trust-in-target: indicates if the transport must require trust in target to be established. Valid values are "none" and "supported".
* trust-in-client: indicates if the transport must require trust in client to be established. Valid values are "none", "supported" and "required".
* detect-replay: indicates whether the transport must require replay detection or not. Valid values are "none", "supported" and "required".
* detect-misordering: indicates whether the transport must require misordering detection or not. Valid values are "none", "supported" and "required".
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* /opt/cola/permits/1110676457_1654022995.3533254/0/wildfly-iiop-openjdk-14-0-1-final-sources-1-jar/org/wildfly/iiop/openjdk/service/CorbaPOAService.java
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org.wildfly.iiop.openjdk.IIOPExtension

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  jar/net/jradius/client/gui/AttributesTableEntry.java
* /opt/cola/permits/1001160561_1654022922.1421328/0/jradius-extended-1-1-4-sources-2-
  jar/net/jradius/client/gui/AttributesTableModel.java
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* /opt/cola/permits/1001160561_1654022922.1421328/0/jradius-extended-1-1-4-sources-2-jar/net/jradius/webservice/WebServiceProcessor.java
* /opt/cola/permits/1001160561_1654022922.1421328/0/jradius-extended-1-1-4-sources-2-jar/net/jradius/webservice/OTPProyProcessor.java
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* /opt/cola/permits/1001160561_1654022922.1421328/0/jradius-extended-1-1-4-sources-2.jar/net/jradius/webservice/OTPProxyException.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org/omg/PortableServer/ServantLocatorPackage/CookieHolder.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/transport/CorbaContactInfoListImpl.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/META-INF/versions/9/com/sun/jndi/toolkit/corba/CorbaUtils.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/dll/toJavaPortable/Stub.java

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  jar/com/sun/corba/se/impl/orbutil/RepositoryIdStrings.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/orbutil/RepositoryIdInterface.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/ior/IIOPProfileImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/ior/TaggedComponentFactoryFinderImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/ior/GenericTaggedProfile.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/ior/IIOPProfileTemplateImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/ior/EncapsulationUtility.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/ior/IIOPProfileTemplateImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/ior/ObjectKeyFactoryImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/ior/protocol/giopmsgheaders/ReplyMessage_1_1.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/protocol/giopmsgheaders/ReplyMessage_1_0.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/ior/TaggedComponentBase.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/ior/ObjectKeyImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/ior/IDRImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/protocol/giopmsgheaders/ReplyMessage_1_0.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/RepIdDelegator.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/protocol/giopmsgheaders/LocateReplyMessage_1_2.java

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jar/com/sun/corba/se/impl/transport/CorbaConnectionCacheBase.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
jar/com/sun/corba/se/pept/transport/ConnectionCache.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/logging/CORBALogDomains.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/orbutil/threadpool/WorkQueueImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/orbutil/threadpool/ThreadPool.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/interceptors/PINoOpHandlerImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/monitoring/MonitoringManager.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/orbutil/threadpool/ThreadPoolImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/monitoring/MonitoringManagerFactoryImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/monitoring/MonitoringManagerFactory.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org/omg/CORBA/LocalObject.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org/omg/PortableInterceptor/Messaging.idl
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org/omg/CORBA/WrongTransactionHelper.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org/omg/CORBA/UnknownUserExceptionHolder.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org/omg/CORBA/UnknownUserExceptionHelper.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/PortableActivationIDL/activation.idl
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org/omg/PortableInterceptor/CORBAX.idl

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;
("com.sun.corba.se.impl.logging" "NamingSystemException" NAMING

(BAD_PARAM
  (TRANSIENT_NAME_SERVER_BAD_PORT 0 WARNING "Port 0 is not a valid port in the transient name server")
  (TRANSIENT_NAME_SERVER_BAD_HOST 1 WARNING "A null hostname is not a valid hostname in the transient name server")
  (OBJECT_IS_NULL 2 WARNING "Invalid object reference passed in rebind or bind operation")
  (INS_BAD_ADDRESS 3 WARNING "Bad host address in -ORBInitDef")
)

(UNKNOWN
  (BIND_UPDATE_CONTEXT_FAILED 0 WARNING "Updated context failed for bind")
  (BIND_FAILURE 1 WARNING "bind failure")
  (RESOLVE_CONVERSION_FAILURE 2 WARNING "Resolve conversion failed")
  (RESOLVE_FAILURE 3 WARNING "Resolve failure")
  (UNBIND_FAILURE 4 WARNING "Unbind failure")
)

(INITIALIZE
  (TRANS NS_CANNOT_CREATE_INITIAL NC SYS 50 WARNING "SystemException in transient name service while initializing")
  (TRANS NS_CANNOT_CREATE_INITIAL NC 51 WARNING "Java exception in transient name service while initializing")
)

(INTERNAL
  (NAMING_CTX_REBIND_ALREADY_BOUND 0 WARNING "Unexpected AlreadyBound exception in rebind")
  (NAMING_CTX_REBIND_CTX_ALREADY_BOUND 1 WARNING "Unexpected AlreadyBound exception in rebind_ctx")
  (NAMING_CTX_BAD_BINDINGTYPE 2 WARNING "Bad binding type in internal binding implementation")
  (NAMING_CTX_RESOLVE_CANNOT_NARROW_TO_CTX 3 WARNING "Object reference that is not CosNaming::NamingContext bound as a context")
  (NAMING_CTX_BINDING_ITERATOR_CREATE 4 WARNING "Error in creating POA for BindingIterator")
  (TRANS NC_BIND_ALREADY_BOUND 100 WARNING "Bind implementation encountered a previous bind")
  (TRANS NC_LIST_GOT_EXC 101 WARNING "list operation caught an unexpected Java exception while creating list iterator")
  (TRANS NC_NEWCTX_GOT_EXC 102 WARNING "new_context operation caught an unexpected Java exception creating the NewContext servant")
  (TRANS NC_DESTROY_GOT_EXC 103 WARNING "Destroy operation caught a Java exception while disconnecting from ORB")
  (INS_BAD_SCHEME_NAME 105 WARNING "Stringified object reference with unknown protocol specified")
  (INS_BAD_SCHEME_SPECIFIC_PART 107 WARNING "Malformed URL in -ORBInitDef")
  (INS_OTHER 108 WARNING "Malformed URL in -ORBInitDef")
))

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  * /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/logging/data/Naming.mc

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jar/com/sun/corba/se/impl/orbutil/ObjectStreamField.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
jar/com/sun/corba/se/impl/protocol/INSServerRequestDispatcher.java
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# Java
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# should remain in the message.
#
# Translator: Start Translating
#
toJavaProlog1=\u7531%0\u751f\u6210
toJavaProlog2=\u4ECE%0
PreEmit.indeterminateTypeInfo=\u65E0\u6CD5\u786E\u5B9A%0\u7684\u7C7B%0\u578B\u4E1u\u606F\u3002
InterfaceGen.noImpl=\u627E%0\u7684\u672C%0\u5730%0\u5B9E%0\u73B0%0
Version.product=IDL-to-Java\u7F16\u8BD1\u5035%0\u7684\u672C%0\u5730%0\u5B9E%0\u73B0%0
Version.number=3.2
NameModifier.TooManyPercent=\u6A21\u5F0F\u4E2D%0\u7684\u7B26%0
NameModifier.NoPercent=\u6A21\u5F0F\u4E2D%0\u7684\u7B26%0
NameModifier.InvalidChar=\u6A21\u5F0F%0

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#             -d, -emitAll, -f, -i, -keep, -m, -sep, -pkgPrefix, -td, -v, -verbose, -version, -implbase
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#
usage=\u7F16\u8BD1\u8DEF\u6C42:

    java com.sun.tools.corba.se.idl.toJavaPortable.Compile
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-keep                     如\u8981
-noWarn
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-pkgTranslate <t>

-skeletonName <xxx%yyy>

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(-fserver \u6216 -fall))\u3002
-td <dir>                 \u4F7F\u7528 <dir>
\u8868\u793A\u8F93\u3002
-tieName <xxx%yyy>        \u6839\u636E\u5F00\u547D\n                          %POATie \u8868\u793A\n                          %_Tie \u8868\u793A oldImplBase tie
                          (-oldImplBase \u548C (-
                          fserverTie \u6216 -fallTie)) \n                          (-oldImplBase \u548C (-
                          fserverTie \u6216 -fallTie))\u3002
-verbose              \u8BE6\u7EC6\n-version

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#
# COMPONENT_NAME: idl.toJava
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com.sun.tools.corba.se.idl.toJavaPortable.Compile [options] <idl file>

<idl file>のIDL翻訳を実行する。
[options]で、どのオプションを適用するかを指定します。

<idl file>のdéfinitionを実行する。
[options]で、どのオプションを適用するかを指定します。

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server.javaの実装を提案します。
-ip <include path>で、実装に関連するincludeパスを指定します。

-keepで、クラス名を保存します。
-noWarnで、警告を無視します。
-oldImplBaseで、UTF-8のJavaベースを提案します。
-pkgPrefixで、Javaベースの�性を提案します。
-pkgTranslateで、Javaベースの読み方を提案します。

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3057u306Au3044u3067u304Fu3060u3055u3044u3002n-skeletonName <xxx%yyy>
\u30D1u30BFu30FCu30F3u306Bu30F9u3063u3066u30B9u30B1u30EBu30C8u30F3u306Bu540Du302
\u3092u4ED8u3051u307Eu3059u3002n
\u30C7u30D5u30A9u30BEu30C8u306Bu6B21u306Eu3068u304Au308Au3067u3059u
POAu30D9u30FCu30B9u30BFu30E9u30B9u306Eu5834u5408u306F%POA (-
-fserveru307Eu305Fu306F-fall) ln
oldImplBase\u30d9\u30FC\u30B9u300Fu30AFu30E9u30B9u306Eu5834u5408u306F_
\u30B1\u30EC\u30AF\u30C8\u30EA\u306Bu30F3\u307E\u305F\u3069\u3002
-oldImplBase\u304Au3088u3073(-fserveru307Eu305Fu306F-fall))u3002n-td <dir>
\u301Fu30BFu30C7u30A3u30ECu30AFu30C8u30EAu306Bu306Eu3001\u73FEu5728u306Eu30C7u30A
\u303Cu30ECu30AFu30C8u30EAu306Eu304Bu30F8u308Au306Bu306B<dir>u3092
\u4F7Fu7528u3057u307Eu3059u3002n-tieName <xxx%yyy>
\u30D1u30BFu30FCu30F3u306Bu5F93u3063u3066tieu306Bu540Du3024u3092u4ED8u3051u307Eu30
59u3002u30C7u30D5u30A9u30EBu30C8u306Fu6B21u306Eu3068u304Au308Au3067u3059u
POA tie\u306Eu5834u5408u306F%POATie (-fserverTieu307Eu305Fu306F-fallTie) ln
oldImplBase tie\u306Eu5834u5408u306F%_Tie\u3002
-oldImplBase\u304Au3088u3073(-
-fserverTieu307Eu305Fu306F-fallTie))u3002n-v, -verbose
\u8A73u7D30u30E2u30FCu30C9u3002n-version
\u30D0u30FCu30B8\u30E7u30F3u756Au53F7u3092u8868u793Au3057u3066u7D42u4E86u3057u307Eu
\u3059u3002n

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jar/com/sun/tools/corba/se/idl/toJavaPortable/toJavaPortable_ja.prp
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/io/FVDCodeBaseImpl.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/tools/corba/se/logutil/InputException.java
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  jar/com/sun/tools/corba/se/logutil/InputCode.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>5Aug1998</td>
<td>dl</td>
<td>Added some convenient time constants</td>
</tr>
</tbody>
</table>

Found in path(s):

* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/orbutil/concurrent/Sync.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/encoding/TypeCodeInputStream.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/orb/OperationFactory.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/orb/ORBImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/encoding/TypeCodeOutputStream.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/orb/ORBDataParserImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/orb/ParserTable.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/oa/toa/TransientObjectManager.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/corba/NamedValueImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/corba/ContextImpl.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA/INV_POLICY.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/idl/Compile.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/servicecontext/ServiceContextRegistry.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/idl/SymtabEntry.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/util/PackagePrefixChecker.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/oa/poa/DelegateImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/idl/Noop.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/idl/InterfaceEntry.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/idl/TypedefEntry.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/idl/ParseException.java
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  jar/org/omg/CORBA/ServerRequest.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org/omg/CORBA/PrincipalHolder.java
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  jar/org/omg/CosNaming/_BindingIteratorImplBase.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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  jar/com/sun/corba/se/spi/ior/TaggedProfile.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/spi/orb/StringPair.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/naming/namingutil/INSURLHandler.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/protocol/BootstrapServerRequestDispatcher.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/orbutil/fsm/ActionBase.java

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"com.sun.corba.se.impl.logging" "UtilSystemException" UTIL

(BAD_OPERATION

( Stub_FACTORY_COULD_NOT_MAKE_STUB 1 FINE "StubFactory failed on makeStub call"
 (ERROR_IN_MAKE_STUB_FROM_REPOSITORY_ID 2 FINE "Error in making stub given RepositoryId")
 (CLASS_CAST_EXCEPTION_IN_LOAD_STUB 3 FINE "ClassCastException in loadStub")
 (EXCEPTION_IN_LOAD_STUB 4 FINE "Exception in loadStub")
 )
)

(BAD_PARAM

( NO_POA 2 WARNING "Error in loadStubAndUpdateCache caused by _this_object"
 (CONNECT_WRONG_ORB 3 FINE "Tried to connect already connected Stub Delegate to a different ORB")
 (CONNECT_NO_TIE 4 WARNING "Tried to connect unconnected Stub Delegate but no Tie was found")
 (CONNECT_TIE_WRONG_ORB 5 WARNING "Tried to connect unconnected stub with Tie in a different ORB")
 (CONNECT_TIE_NO_SERVANT 6 WARNING "Tried to connect unconnected stub to unconnected Tie")
 (LOAD_TIE_FAILED 7 FINE "Failed to load Tie of class {0}"
 )
)

(DATA_CONVERSION

( BAD_HEX_DIGIT 1 WARNING "Bad hex digit in string_to_object"
)

(MARSHAL

(UNABLE_LOCATE_VALUE_HELPER 2 WARNING "Could not locate value helper"
 (INVALID_INDIRECTION 3 WARNING "Invalid indirection {0}"
 )
)

(INV_OBJREF

(OBJECT_NOT_CONNECTED 1 WARNING "[0] did not originate from a connected object"
 (COULD_NOT_LOAD_STUB 2 WARNING "Could not load stub for class {0}"
 (OBJECT_NOT_EXPORTED 3 WARNING "Class {0} not exported, or else is actually a JRMP stub")
)

(INTERNAL

(ERROR_SET_OBJECT_FIELD 1 WARNING "Error in setting object field {0} in {1} to {2}"
 (ERROR_SET_BOOLEAN_FIELD 2 WARNING "Error in setting boolean field {0} in {1} to {2}"
 (ERROR_SET_BYTE_FIELD 3 WARNING "Error in setting byte field {0} in {1} to {2}"
 (ERROR_SET_CHAR_FIELD 4 WARNING "Error in setting char field {0} in {1} to {2}"
 (ERROR_SET_SHORT_FIELD 5 WARNING "Error in setting short field {0} in {1} to {2}"
 (ERROR_SET_INT_FIELD 6 WARNING "Error in setting int field {0} in {1} to {2}"
 (ERROR_SET_LONG_FIELD 7 WARNING "Error in setting long field {0} in {1} to {2}"
 (ERROR_SET_FLOAT_FIELD 8 WARNING "Error in setting float field {0} in {1} to {2}"
 (ERROR_SET_DOUBLE_FIELD 9 WARNING "Error in setting double field {0} in {1} to {2}"
 (ILLEGAL_FIELD_ACCESS 10 WARNING "IllegalAccessException while trying to write to field {0}"
 (BAD_BEGIN_UNMARSHAL_CUSTOM_VALUE 11 WARNING "State should be saved and reset first"
 (CLASS_NOT_FOUND 12 WARNING "Failure while loading specific Java remote exception class: {0}"
 (UNKNOWN

(UNKNOWN_SYSEX 1 WARNING "Unknown System Exception")
)
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;
("com.sun.corba.se.impl.logging" "ORBUtilSystemException" ORBUTIL

(BAD_OPERATION
 (ADAPTER_ID_NOT_AVAILABLE 1 WARNING "Adapter ID not available")
 (SERVER_ID_NOT_AVAILABLE 2 WARNING "Server ID not available")
 (ORB_ID_NOT_AVAILABLE 3 WARNING "ORB ID not available")
 (OBJECT_ADAPTER_ID_NOT_AVAILABLE 4 WARNING "Object adapter ID not available")
 (CONNECTING_SERVANT 5 WARNING "Error connecting servant")
 (EXTRACT_WRONG_TYPE 6 FINE "Expected typecode kind {0} but got typecode kind {1}")
 (EXTRACT_WRONG_TYPE_LIST 7 WARNING "Expected typecode kind to be one of {0} but got typecode
kind {1}")
 (BAD_STRING_BOUNDS 8 WARNING "String length of {0} exceeds bounded string length of {1}")
 (INSERT_OBJECT_INCOMPATIBLE 10 WARNING "Tried to insert an object of an incompatible type into an
Any for an object reference")
 (INSERT_OBJECT_FAILED 11 WARNING "insert_object call failed on an Any")
 (EXTRACT_OBJECT_INCOMPATIBLE 12 WARNING "extract_object call failed on an Any")
 (FIXED_NOT_MATCH 13 WARNING "Fixed type does not match typecode")
 (FIXED_BAD_TYPECODE 14 WARNING "Tried to insert Fixed type for non-Fixed typecode")
2 WARNING "Connection close: rebinding"

3 FINE "Write error sent"

4 WARNING "Get properties error"

5 WARNING "Bootstrap server is not available"

6 WARNING "Invocation error"

7 WARNING "DefaultSocketFactory.createServerSocket only handles IIOP_CLEAR_TEXT, given {0}"

8 FINE "Connection abort"

9 FINE "Connection rebind"

10 WARNING "Received a GIOP MessageError, indicating header corruption or version mismatch"

11 FINE "IOException when reading connection"

12 FINE "SelectionKey invalid on channel, {0}";

13 FINE "Unexpected [0] in accept"

14 FINE "Unexpected [0], has permissions [1]"

15 WARNING "Read of full message failed: bytes requested = {0} bytes read = [1] max wait time = [2] total time spent waiting = [3]"

16 SEVERE "Unable to create listener thread on the specified port: [0]"

17 WARNING "Timeout while reading data in buffer manager"

1 (DATA_CONVERSION

2 BAD_STRINGIFIED_IOR_LEN 1 WARNING "A character did not map to the transmission code set"

3 BAD_STRINGIFIED_IOR 2 WARNING "Bad stringified IOR"

4 BAD_MODIFIER 3 WARNING "Unable to perform resolve_initial_references due to bad host or port configuration"

5 CODESET_INCOMPATIBLE 4 WARNING "Codesets incompatible"

6 BAD_HEX_DIGIT 5 WARNING "Illegal hexadecimal digit"

7 BAD_UNICODE_PAIR 6 WARNING "Invalid unicode pair detected during code set conversion"

8 BTC_RESULT_MORE_THAN_ONE_CHAR 7 WARNING "Tried to convert bytes to a single Java char, but conversion yielded more than one Java char (Surrogate pair?)"

9 BAD_CODESETS_FROM_CLIENT 8 WARNING "Client sent code set service context that we do not support"

10 INVALID_SINGLE_CHAR_CTB 9 WARNING "Char to byte conversion for a CORBA char resulted in more than one byte"

11 BAD_GIOP_1_1_CTB 10 WARNING "Character to byte conversion did not exactly double number of chars
(GIOP 1.1 only)
(BAD_SEQUENCE_BOUNDS 12 WARNING "Tried to insert a sequence of length \{0\} into a bounded sequence of maximum length \{1\} in an Any")
(ILLEGAL_SOCKET_FACTORY_TYPE 13 WARNING "Class \{0\} is not a subtype of ORBSocketFactory")
(BAD_CUSTOM_SOCKET_FACTORY 14 WARNING "\{0\} is not a valid custom socket factory")
(FRAGMENT_SIZE_MINIMUM 15 WARNING "Fragment size \{0\} is too small: it must be at least \{1\}"
(FRAGMENT_SIZE_DIV 16 WARNING "Illegal value for fragment size (\{0\}): must be divisible by \{1\}"
(ORB_INITIALIZER_FAILURE 17 WARNING "Could not instantiate ORBInitializer \{0\}"
(ORB_INITIALIZER_TYPE 18 WARNING "orb initializer class \{0\} is not a subtype of ORBInitializer"
(ORB_INITIALIZER_REFERENCE_SYNTAX 19 WARNING "Bad syntax for ORBInitializer"
(ACCEPTOR_INSTANCEgregation_FAILUe 20 WARNING "Could not instantiate Acceptor \{0\}"
(ACCEPTOR_INSTANCEIGATION_TYPE_FAILURE 21 WARNING "Acceptor class \{0\} is not a subtype of Acceptor"
(ILLEGAL>Contact_INFO_LIST_FACTORY_TYPE 22 WARNING "Class \{0\} is not a subtype of CorbaContactInfoListFactory")
(BAD_CONTACT_INFO_LIST_FACTORY 23 WARNING "\{0\} is not a valid CorbaContactInfoListFactory")
(ILLEGAL_IOR_TO_SOCKET_INFO_TYPE 24 WARNING "Class \{0\} is not a subtype of IORTosocketInfo")
(BAD_CUSTOM_IOR_TO_SOCKET_INFO 25 WARNING "\{0\} is not a valid custom IORTosocketInfo")
(ILLEGAL_IOP_PRIMARY_TO_CONTACT_INFO_TYPE 26 WARNING "Class \{0\} is not a subtype of IOPPrimaryToContactInfo")
(BAD_CUSTOM_IOP_PRIMARY_TO_CONTACT_INFO 27 WARNING "\{0\} is not a valid custom IOPPrimaryToContactInfo")
(INV_OBJREF 28 WARNING "Inv ObjRef"
(BAD_CORBALOC_STRING 1 WARNING "Bad corbaloc: URL")
(NO_PROFILE_PRESENT 2 WARNING "No profile in IOR")
(INITIALIZE 3 WARNING "Initialize"
(CANNOT_CREATE_ORBID_DB 1 WARNING "Cannot create ORB ID datastore")
(CANNOT_READ_ORBID_DB 2 WARNING "Cannot read ORB ID datastore")
(CANNOT_WRITE_ORBID_DB 3 WARNING "Cannot write ORB ID datastore")
(GET_SERVER_PORT_CALLED_BEFORE_ENDPOINTS_INITIALIZED 4 WARNING "legacyGetServerPort called before endpoints initialized")
(PERSISTENT_SERVERPORT_NOT_SET 5 WARNING "Persistent server port is not set")
(PERSISTENT_SERVERID_NOT_SET 6 WARNING "Persistent server ID is not set")
(INternal 7 WARNING "Internal"
(NON_EXISTENT_ORBID 1 WARNING "Non-existent ORB ID")
(NO_SERVER_SUBCONTRACT 2 WARNING "No server request dispatcher")
(SEVER_SC_TEMP_SIZE 3 WARNING "server request dispatcher template size error")
(NO_CLIENT_SC_CLASS 4 WARNING "No client request dispatcher class")
(SERVER_SC_NO_IOP_PROFILE 5 WARNING "No IOP profile in server request dispatcher")
(GET_SYSTEM_EX_RETURNED_NULL WARNING "getSystemException returned null")
(PEEKSTRING_FAILED WARNING "The repository ID of a user exception had a bad length")
(GET_LOCAL_HOST_FAILED WARNING "Unable to determine local hostname from InetAddress.getLocalHost().getHostName()")

; 9 is not used at this time - it is available for reuse.
(BAD_LOCATE_REQUEST_STATUS WARNING "Bad locate request status in IIOP locate reply")
(STRINGIFY_WRITE_ERROR WARNING "Error while stringifying an object reference")
(BAD_GIOP_REQUEST_TYPE WARNING "IIOP message with bad GIOP 1.0 message type")
(ERROR_UNMARSHALING_USEREXC WARNING "Error in unmarshalling user exception")
(RequestDispatcherRegistry_ERROR WARNING "Overflow in RequestDispatcherRegistry")
(LOCATIONFORWARD_ERROR WARNING "Error in processing a LocationForward")
(WRONG_CLIENTSC WARNING "Wrong client request dispatcher")
(BAD_SERVANT_READ_OBJECT WARNING "Bad servant in read_Object")
(MULT_IIOP_PROF_NOT_SUPPORTED WARNING "multiple IIOP profiles not supported")
(GIOP_MAGIC_ERROR WARNING "Error in GIOP magic")
(GIOP_VERSION_ERROR WARNING "Error in GIOP version")
(ILLEGAL_REPLY_STATUS WARNING "Illegal reply status in GIOP reply message")
(ILLEGAL_GIOP_MSG_TYPE WARNING "Illegal GIOP message type")
(FRAGMENTATION_DISALLOWED WARNING "Fragmentation not allowed for this message type")
(BAD_REPLYSTATUS WARNING "Bad status in the IIOP reply message")
(CTB_CONVERTER_FAILURE WARNING "character to byte converter failure")
(BTC_CONVERTER_FAILURE WARNING "byte to character converter failure")
(WCHAR_ARRAY_UNSUPPORTED_ENCODING WARNING "Unsupported wchar encoding: ORB only supports fixed width UTF-16 encoding")
(ILLEGAL_TARGET_ADDRESS_DISPOSITION WARNING "Illegal target address disposition value")
(NULL_REPLY_IN_GET_ADDR_DISPOSITION WARNING "No reply while attempting to get addressing disposition")
(ORB_TARGET_ADDR_PREFERENCE_IN_EXTRACT_OBJECTKEY WARNING "Invalid GIOP target addressing preference")
(INVALID_ISSTREAMED_TCKIND WARNING "Invalid isStreamed TCKind [0]")
(INVALID_JDK1_3_1_PATCH_LEVEL WARNING "Found a JDK 1.3.1 patch level indicator with value less than JDK 1.3.1_01 value of 1")
(SVYCTX_UNMARSHAL_ERROR WARNING "Error unmarshalling service context data")
(NULL_IOR WARNING "null IOR")
(UNSUPPORTED_GIOP_VERSION WARNING "Unsupported GIOP version [0]")
(APPLICATION_EXCEPTION_IN_SPECIAL_METHOD WARNING "Application exception in special method: should not happen")
(STATEMENT_NOT_REACHABLE WARNING "Assertion failed: statement not reachable (1)")
(STATEMENT_NOT_REACHABLE2 WARNING "Assertion failed: statement not reachable (2)")
(STATEMENT_NOT_REACHABLE3 WARNING "Assertion failed: statement not reachable (3)")
(STATEMENT_NOT_REACHABLE4 WARNING "Assertion failed: statement not reachable (4)")
(STATEMENT_NOT_REACHABLE5 WARNING "Assertion failed: statement not reachable (5)")
(STATEMENT_NOT_REACHABLE6 WARNING "Assertion failed: statement not reachable (6)")
(UNEXPECTED_DII_EXCEPTION WARNING "Unexpected exception while unmarshalling DII user exception")
(METHOD_SHOULD_NOT_BE_CALLED WARNING "This method should never be called")
(CANCEL_NOT_SUPPORTED WARNING "We do not support cancel request for GIOP 1.1")
(EMPTY_STACK_RUN_SERVANT_POST_INVOKE WARNING "Empty stack exception while calling
runServantPostInvoke") (PROBLEM_WITH_EXCEPTION_TYPECODE 48 WARNING "Bad exception typecode") (ILLEGAL_SUBCONTRACT_ID 49 WARNING "Illegal Subcontract id {0}") (BAD_SYSTEM_EXCEPTION_IN_LOCATE_REPLY 50 WARNING "Bad system exception in locate reply") (BAD_SYSTEM_EXCEPTION_IN_REPLY 51 WARNING "Bad system exception in reply") (BAD_COMPLETION_STATUS_IN_LOCATE_REPLY 52 WARNING "Bad CompletionStatus {0} in locate reply") (BAD_COMPLETION_STATUS_IN_REPLY 53 WARNING "Bad CompletionStatus {0} in reply") (BAD_KIND_CANNOT_OCCUR 54 WARNING "The BadKind exception should never occur here") (ERROR_RESOLVING_ALIAS 55 WARNING "Could not resolve alias typecode") (TK_LONG_DOUBLE_NOT_SUPPORTED 56 WARNING "The long double type is not supported in Java") (TYPECODE_NOT_SUPPORTED 57 WARNING "Illegal typecode kind") (BOUNDS_CANNOT_OCCUR 59 WARNING "Bounds exception cannot occur in this context") (NUM_INVOCATIONS_ALREADY_ZERO 61 WARNING "Number of invocations is already zero, but another invocation has completed") (ERROR_INIT_BADSERVERIDHANDLER 62 WARNING "Error in constructing instance of bad server ID handler") (NO_TOA 63 WARNING "No TOAFactory is available") (NO_POA 64 WARNING "No POAFactory is available") (INVOCATION_INFO_STACK_EMPTY 65 WARNING "Invocation info stack is unexpectedly empty") (BAD_CODE_SET_STRING 66 WARNING "Empty or null code set string") (UNKNOWN_NATIVE_CODESET 67 WARNING "Unknown native codeset: {0}"") (UNKNOWN_CONVERSION_CODE_SET 68 WARNING "Unknown conversion codset: {0}"") (INVALID_CODE_SET_NUMBER 69 WARNING "Invalid codeset number") (INVALID_CODE_SET_STRING 70 WARNING "Invalid codeset string {0}"") (INVALID_CTB_CONVERTER_NAME 71 WARNING "Invalid CTB converter {0}"") (INVALID_BTC_CONVERTER_NAME 72 WARNING "Invalid BTC converter {0}"") (COULD_NOT_DUPLICATE_CDR_INPUT_STREAM 73 WARNING "Could not duplicate CDRInputStream") (BOOTSTRAP_APPLICATION_EXCEPTION 74 WARNING "BootstrapResolver caught an unexpected ApplicationException") (DUPLICATE_INDIRECTION_OFFSET 75 WARNING "Old entry in serialization indirection table has a different value than the value being added with the same key") (BAD_MESSAGE_TYPE_FOR_CANCEL 76 WARNING "GIOP Cancel request contained a bad request ID: the request ID did not match the request that was to be cancelled") (DUPLICATE_EXCEPTION_DETAIL_MESSAGE 77 WARNING "Duplicate ExceptionDetailMessage") (BAD_EXCEPTION_DETAILMESSAGE_SERVICE_CONTEXT_TYPE 78 WARNING "Bad ExceptionDetailMessage ServiceContext type") (UNEXPECTED_DIRECT_BYTE_BUFFER_WITH_NON_CHANNEL_SOCKET 79 WARNING "unexpected direct ByteBuffer with non-channel socket") (UNEXPECTED_NON_DIRECT_BYTE_BUFFER_WITH_CHANNEL_SOCKET 80 WARNING "unexpected non-direct ByteBuffer with channel socket") (INVALID_CONTACT_INFO_LIST_ITERATOR_FAILURE_EXCEPTION 82 WARNING "There should be at least one CorbaContactInfo to try (and fail) so this error should not be seen.") (REMARSHAL_WITH_NOWHERE_TO_GO 83 WARNING "Remarshal with nowhere to go") (EXCEPTION_WHEN_SENDING_CLOSE_CONNECTION 84 WARNING "Exception when sending close connection") (INVOCATION_ERROR_IN_REFLECTIVE_TIE 85 WARNING "A reflective tie got an error while invoking
method {0} on class {1})
  BAD_HELPER_WRITE_METHOD 86 WARNING "Could not find or invoke write method on exception Helper class {0}"
  BAD_HELPER_READ_METHOD 87 WARNING "Could not find or invoke read method on exception Helper class {0}"
  BAD_HELPER_ID_METHOD 88 WARNING "Could not find or invoke id method on exception Helper class {0}"
  WRITE_UNDECLARED_EXCEPTION 89 WARNING "Tried to write exception of type {0} that was not declared on method"
  READ_UNDECLARED_EXCEPTION 90 WARNING "Tried to read undeclared exception with ID {0}"
  UNABLE_TO_SET_SOCKET_FACTORY_ORB 91 WARNING "Unable to setSocketFactoryORB"
  UNEXPECTED_EXCEPTION 92 WARNING "Unexpected exception occurred where no exception should occur"
  NO_INVOCATION_HANDLER 93 WARNING "No invocation handler available for {0}"
  INVALID_BUFF_MGR_STRATEGY 94 WARNING "{0}: invalid buffer manager strategy for Java serialization"
  JAVA_STREAM_INIT_FAILED 95 WARNING "Java stream initialization failed"
  DUPLICATE_ORB_VERSION_SERVICE_CONTEXT 96 WARNING "An ORBVersionServiceContext was already in the service context list"
  DUPLICATE_SENDING_CONTEXT_SERVICE_CONTEXT 97 WARNING "A SendingContextServiceContext was already in the service context list"
  WORK_QUEUE_THREAD_INTERRUPTED 98 FINE "Worker Thread from thread pool {0} was interrupted: closeCalled is {1}."
  WORKER_THREAD_CREATED
  104 FINE "Worker thread {0} has been created with ClassLoader {1}"
  WORKER_THREAD_THROWABLE_FROM_REQUEST_WORK
  109 FINE "Worker thread {0} caught throwable {1} when requesting work from work queue {2}."
  WORKER_THREAD_NOT_NEEDED
  110 FINE "Worker thread {0} will exit; current thread count, {1}, greater than minunum worker threads needed, {2}."
  WORKER_THREAD_DO_WORK_THROWABLE
  111 FINE "Worker thread {0} caught throwable {1} while executing work."
  WORKER_THREAD_CAUGHT_UNEXPECTED_THROWABLE
  112 WARNING "Worker thread {0} caught unexpected throwable {1}."
  WORKER_THREAD_CREATION_FAILURE
  113 SEVERE "Worker thread creation failure; cause {0}."
  WORKER_THREAD_SET_NAME_FAILURE
  114 WARNING "Unable to set worker thread {0} name to {1}; cause {2}."
  WORK_QUEUE_REQUEST_WORK_NO_WORK_FOUND
  116 WARNING "Ignoring unexpected {0} when retrieving of work from work queue, {1}."
  THREAD_POOL_CLOSE_ERROR 126 WARNING "Error in closing ThreadPool"
  THREAD_GROUP_IS_DESTROYED 127 WARNING "ThreadGroup {0} is already destroyed: can’t destroy it"
  THREAD_GROUP_HAS_ACTIVE_THREADS_IN_CLOSE 128 WARNING "ThreadGroup {0} has {1} active threads: destroy may cause exception"
  THREAD_GROUP_HAS_SUB_GROUPS_IN_CLOSE 129 WARNING "ThreadGroup {0} has {1} sub-thread groups: destroy may cause exception"
  THREAD_GROUP DESTROY FAILED 130 WARNING "ThreadGroup {0} could not be destroyed"
(INTERRUPTED_JOIN_CALL_WHILE_CLOSING_THREAD_POOL 131 WARNING "Join was interrupted on thread \{0\} while closing ThreadPool \{1\}"
)

(MARSHAL
  (CHUNK_OVERFLOW 1 WARNING "Data read past end of chunk without closing the chunk")
  (UNEXPECTED_EOF 2 WARNING "Grow buffer strategy called underflow handler")
  (READ_OBJECT_EXCEPTION 3 WARNING "Error in reading marshalled object")
  (CHARACTER_OUTOFRANGE 4 WARNING "Character not IOS Latin-1 compliant in marshalling")
  (DSI_RESULT_EXCEPTION 5 WARNING "Exception thrown during result() on ServerRequest")
  (IOPINPUTSTREAM_GROW 6 WARNING "grow() called on IOInputSteam")
  (END_OF_STREAM 7 FINE "Underflow in BufferManagerReadStream after last fragment in message")
  (INVALID_OBJECT_KEY 8 WARNING "Invalid ObjectKey in request header")
  (MALFORMED_URL 9 WARNING "Unable to locate value class for repository ID \{0\} because codebase URL \{1\} is malformed")
  (VALUEHANDLER_READ_ERROR 10 WARNING "Error from readValue on ValueHandler in CDRInputStream")
  (VALUEHANDLER_READ_EXCEPTION 11 WARNING "Exception from readValue on ValueHandler in CDRInputStream")
  (BAD_KIND 12 WARNING "Bad kind in isCustomType in CDRInputStream")
  (CNFE_READ_CLASS 13 WARNING "Could not find class \{0\} in CDRInputStream.readClass")
  (BAD_REP_ID_INDIRECTION 14 WARNING "Bad repository ID indirection at index \{0\}"
  )
  (BAD_CODEBASE_INDIRECTION 15 WARNING "Bad codebase string indirection at index \{0\}"
  )
  (UNKNOWN_CODESET 16 WARNING "Unknown code set \{0\} specified by client ORB as a negotiated code set")
  (WCHAR_DATA_IN_GIOP_1_0 17 WARNING "Attempt to marshal wide character or string data in GIOP 1.0")
  (NEGATIVE_STRING_LENGTH 18 WARNING "String or wstring with a negative length \{0\}"
  )
  (EXPECTED_TYPE_NULL_AND_NO_REP_ID 19 WARNING "CDRInputStream.read_value(null) called, but no repository ID information on the wire")
  (READ_VALUE_AND_NO_REP_ID 20 WARNING "CDRInputStream.read_value() called, but no repository ID information on the wire")
  (UNEXPECTED_ENCLOSING_VALUETYPE 22 WARNING "Received end tag \{0\}, which is less than the expected value \{1\}"
  )
  (POSITIVE_END_TAG 23 WARNING "Read non-negative end tag \{0\} at offset \{1\} (end tags should always be negative")
  (NULL_OUT_CALL 24 WARNING "Out call descriptor is missing")
  (WRITE_LOCAL_OBJECT 25 WARNING "write_Object called with a local object")
  (BAD_INSERTOBJ_PARAM 26 WARNING "Tried to insert non-ObjectImpl \{0\} into an Any via insert_Object")
  (CUSTOM_WRAPPER_WITH_CODEBASE 27 WARNING "Codebase present in RMI-IIOP stream format version 1 optional data valuetype header")
  (CUSTOM_WRAPPER_INDIRECTION 28 WARNING "Indirection present in RMI-IIOP stream format version 2 optional data valuetype header")
  (CUSTOM_WRAPPER_NOT_SINGLE_REPID 29 WARNING "0 or more than one repository ID found reading the optional data valuetype header")
  (BAD_VALUE_TAG 30 WARNING "Bad valuetag \{0\} found while reading repository IDs")
  (BAD_TYPECODE_FOR_CUSTOM_VALUE 31 WARNING "Bad typecode found for custom valuetype")
(ERROR_INVOKE_HELPER_WRITE 32 WARNING "An error occurred using reflection to invoke IDL Helper write method")
(BAD_DIGIT_IN_FIXED 33 WARNING "A bad digit was found while marshalling an IDL fixed type")
(REF_TYPE_INDIR_TYPE 34 WARNING "Referenced type of indirect type not marshaled")
(BAD_RESERVED_LENGTH 35 WARNING "Request message reserved bytes has invalid length")
(NULL_NOT_ALLOWED 36 WARNING "A null object is not allowed here")
(UNION_DISCRIMINATOR_ERROR 38 WARNING "Error in typecode union discriminator")
(CANNOT_MARSHAL_NATIVE 39 WARNING "Cannot marshal a native TypeCode")
(CANNOT_MARSHAL_BAD_TCKIND 40 WARNING "Cannot marshal an invalid TypeCode kind")
(INVALID_INDIRECTION 41 WARNING "Invalid indirection value {0} (> -4): probable stream corruption")
(INDIRECTION_NOT_FOUND 42 FINE "No type found at indirection {0}: probably stream corruption")
(RECURSIVE_TYPECODE_ERROR 43 WARNING "Recursive TypeCode not supported by InputStream subtype")
(INVALID_SIMPLE_TYPECODE 44 WARNING "TypeCode is of wrong kind to be simple")
(INVALID_COMPLEX_TYPECODE 45 WARNING "TypeCode is of wrong kind to be complex")
(INVALID_TYPECODE_KIND_MARSHAL 46 WARNING "Cannot marshal typecode of invalid kind")
(UNEXPECTED_UNION_DEFAULT 47 WARNING "Default union branch not expected")
(ILLEGAL_UNION_DISCRIMINATOR_TYPE 48 WARNING "Illegal discriminator type in union")
(COULD_NOT_SKIP_BYTES 49 WARNING "Could not skip over {0} bytes at offset {1}")
(BAD_CHUNK_LENGTH 50 WARNING "Incorrect chunk length {0} at offset {1}")
(UNABLE_TO_LOCATE_REP_ID_ARRAY 51 WARNING "Unable to locate array of repository IDs from indirection {0}")
(BAD_FIXED 52 WARNING "Fixed of length {0} in buffer of length {1}")
(READ_OBJECT_LOAD_CLASS_FAILURE 53 WARNING "Failed to load stub for {0} with class {1}")
(COULD_NOT_INSTANTIATE_HELPER 54 WARNING "Could not instantiate Helper class {0}")
(BAD_TOA_OAID 55 WARNING "Bad ObjectAdapterId for TOA")
(COULD_NOT_INVOKE_HELPER_READ_METHOD 56 WARNING "Could not invoke helper read method for helper {0}")
(COULD_NOT_FIND_CLASS 57 WARNING "Could not find class")
(BAD_ARGUMENTS_NVLIST 58 FINE "Error in arguments(NVList) for DSI ServerRequest")
(STUB_CREATE_ERROR 59 FINE "Could not create stub")
(JAVA_SERIALIZATION_EXCEPTION 60 WARNING "Java serialization exception during {0} operation")
(NO_IMPLEMENT
(GENERIC_NO_IMPL 1 FINE "feature not implemented")
(CONTEXT_NOT_IMPLEMENTED 2 FINE "IDL request context is not implemented")
(GETINTERFACE_NOT_IMPLEMENTED 3 FINE "getInterface() is not implemented")
(SEND_DEFERRED_NOTIMPLEMENTED 4 FINE "send deferred is not implemented")
(LONG_DOUBLE_NOT_IMPLEMENTED 5 FINE "IDL type long double is not supported in Java")
(OBJ_ADAPTER
(NO_SERVER_SC_IN_DISPATCH 1 WARNING "No server request dispatcher found when dispatching request to object adapter")
(ORB_CONNECT_ERROR 2 WARNING "Error in connecting servant to ORB")
(ADAPTER_INACTIVE_IN_ACTIVATION 3 FINE "StubAdapter.getDelegate failed to activate a Servant")
(OBJECT_NOT_EXIST
(LOCATE_UNKNOWN_OBJECT 1 WARNING "Locate response indicated that the object was unknown")
(BAD_SERVER_ID 2 FINE "The server ID in the target object key does not match the server key expected by the server")
(BAD_SKELETON 3 WARNING "No skeleton found in the server that matches the target object key")
(SERVANT_NOT_FOUND 4 WARNING "Servant not found")
(NO_OBJECT_ADAPTER_FACTORY 5 WARNING "No object adapter factory")
(BAD_ADAPTER_ID 6 WARNING "Bad adapter ID")
(DYN_ANY_DESTROYED 7 WARNING "Dynamic Any was destroyed: all operations are invalid")

(TRANSIENT

(REQUEST_CANCELED 1 WARNING "Request cancelled by exception")

(UNKNOWN

UNKNOWN_CORBA_EXC 1 WARNING "Unknown user exception while unmarshalling")
(RUNTIMEEXCEPTION 2 WARNING "Unknown user exception thrown by the server")
(UNKNOWN_SERVER_ERROR 3 WARNING "Unknown exception or error thrown by the ORB or application")
(UNKNOWN_DSI_SYSEX 4 WARNING "Error while marshalling SystemException after DSI-based invocation")
(UNKNOWN_SYSEX 5 WARNING "Error while unmarshalling SystemException")
(WRONG_INTERFACE_DEF 6 WARNING "InterfaceDef object of wrong type returned by server")
(NO_INTERFACE_DEF_STUB 7 WARNING "org.omg.CORBA._InterfaceDefStub class not available")
(UNKNOWN_EXCEPTION_IN DISPATCH 9 FINE "UnknownException in dispatch")
)

Found in path(s):
* /opt/cola/permits/1110675136_165402949.6575058/0/openjdk-orb-8.1.2-final-sources-1.jar/com/sun/corba/spi/logging/data/ORBUtil.mc

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Found in path(s):
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA/TypeCodePackage/BadKind.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA/ARG_OUT.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA/ARG_IN.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA/TypeCodePackage/Bounds.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA/ARG_INOUT.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA/CTX_RESTRICT SCOPE.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA/portable/Streamable.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA/CODESET_INCOMPATIBLE.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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jar/org/omg/CORBA/package.html
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/dll/toJavaPortable/MethodGen.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/util/SUNVMCID.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/dll/toJavaPortable/AttributeGen.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/resources/sunorb_de.properties
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/resources/sunorb_zh_CN.properties
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/resources/sunorb_es.properties
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/resources/sunorb_fr.properties
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/resources/sunorb_it.properties

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CORBA IDL

<specification>   EOF
<specification'>  EOF
<definition>      EOF, typedef, struct, union, enum, const, exception, interface, module, }
<module>          ;
<module'>         }
<module''>        }
@interface>       ;
@interface'       ;
@interface_dcl>   ;
@interface_body>  }
@interface_body'> }
<export>          typedef, struct, union, enum, const, exception, readonly, attribute, oneway, float, double, long,
short, unsigned, char, boolean, octet, any, string, id, ::, void, state, }
<state_def>       typedef, struct, union, enum, const, exception, readonly, attribute, oneway, float, double, long,
short, unsigned, char, boolean, octet, any, string, id, ::, void, state, }
<state_def'>      }
<state_member>    private, protected, public, float, double, long, short, unsigned, char, boolean, octet, any,
sequence, string, id, ::, struct, union, enum, }
<state_modifier>  float, double, long, short, unsigned, char, boolean, octet, any, sequence, string, id, ::, struct,
union, enum
<inheritance_spec> [ 

* COMPONENT_NAME: idl.parser
* ORIGINS: 27
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*/
<inheritance_spec>  {
  <scoped_name>   ",", {, id, ::, literal, (, >, ), macroID
  <scoped_name'>  ",", {, id, ::, literal, (, >, ), macroID
  <const_dcl>    ;
  <const_type>   id
  <const_exp>    ;, ), >, ] : 
  <or_expr>      ;, ), >, ] : 
  <or_expr'>     ;, ), >, ] : 
  <xor_expr>     [ ;, ), >, ] : 
  <xor_expr'>    [ ;, ), >, ] : 
  <and_expr>     ^, |, ;, ), >, ] : 
  <and_expr'>    ^, |, ;, ), >, ] : 
  <shift_expr>   &, ^, |, ;, ), >, ] : 
  <shift_expr'>  &, ^, |, ;, ), >, ] : 
  <add_expr>     >>, <<, &, ^, |, ;, ), >, ] : 
  <add_expr'>    >>, <<, &, ^, |, ;, ), >, ] : 
  <mult_expr>    >>, <<, &, ^, |, ;, ), >, ] : 
  <mult_expr'>   >>, <<, &, ^, |, ;, ), >, ] : 
  <unary_expr>   *, /, %, +, -, >, <<, &, ^, |, ;, ), >, ] :
  <unary_operator> id, ::, literal, ( 
  <primary_expr>  *, /, %, +, -, >, <<, &, ^, |, ;, ), >, ] :
  <literal>      *, /, %, +, -, >, <<, &, ^, |, ;, ), >, ] : (and , for string literal in <context_expr>)
  <positive_int_const> >, ] 
  <type_dcl>     ;
<type_declarator> ;

<type_spec> id

<simple_type_spec> id, ",", >

<base_type_spec> id, ",", >, macroID

<template_type_spec> id, ",", >

<constr_type_spec> id

<declarators> ;

<declarators'> ;

<declarator> ",", ;

<declarator> ",", ;

<floating_pt_type> id, ",", >, macroID

<integer_type> id, ",", >, macroID, )

<signed_int> id, ",", >, macroID, )

<unsigned_int> id, ",", >, macroID, )

<char_type> id, ",", >, macroID, )

<boolean_type> id, ",", >, macroID, )

<octet_type> id, ",", >, macroID

<any_type> id, ",", >, macroID

<struct_type> ";", id

<member_list> }

<member_list'> }

<member> float, double, long, short, unsigned, char, boolean, octet, any, sequence, string, id, ";", struct, union, enum, }

<union_type> ";", id
<switch_type_spec> )

<switch_body> }

<switch_body'> }

<case> case, default, }

<case'> float, double, long, short, unsigned, char, boolean, octet, any, sequence, string, id, ::, struct, union, enum

<case_label> case, default, float, double, long, short, unsigned, char, boolean, octet, any, sequence, string, id, ::, struct, union, enum

<element_spec> ;

<enum_type> ; id, )

<enum_type'> }

<sequence_type> id, ",", >

<sequence_type'> id, ",", >

<string_type> id, ",", >, macroID

<string_type'> id, ",", >, macroID

<fixed_array_size> [, ",", ;

<attr_dcl> ;

<attr_dcl'> ;

<except_dcl> ;

<except_dcl'> }

<op_dcl> ;

<op_dcl'> ;

<op_dcl''> ;

<op_dcl'''>

<op_attribute> float, double, long, short, unsigned, char, boolean, octet, any, string, id, ::, void
<op_type_spec> id, macroID

<parameter_dcls> raises, context, ;

<parameter_dcls'>< parameter_dcls''> )

<param_dcl> , )

<param_attribute> float, double, long, short, unsigned, char, boolean, octet, any, string, id, ::

<preases_expr> context, ;

<preases_expr'>< )

<context_expr> ;

<context_expr'>< )

<param_type_spec> id, macroID

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
jar/com/sun/tools/corba/se/idl/follow.set
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/java/rmi/CORBA/SubDelegateImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/io/ValueUtility.java
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#
#
# Translator: Each line below is of the form "<key>=<message>".
# The keys are NOT to be translated.
# The messages ARE to be translated.
# DO NOT translate the following:
# ASCII
%0, %1, etc. are positional parameters to the message. Do not translate these. The number order is the order they are given to the message writer. It is OK to change their order in the message if the language grammar so dictates.

Lines of the form "%0 (line %1):  <some message>\n%0; %1 is the error marker. So the message comes out looking like:
  <filename> (line xxx):  <some message>
  Line xxx from <filename> where the carat points to the error

So the first two and the last two parameters of these messages must remain in their positions.

A backslash (\) at the end of a line is a line continuation character. A backslash at the beginning of a line means don't ignore leading blanks (they normally are). These backslashes should remain in the message.

Translator:  Start Translating

Compile.parsing=\u6B63\u5728\u89E3\u6790 %0
Compile.parseDone=\u5B8C\u6210 - %0
Compile.generating=\u6B63\u5728\u751F\u6210 %0
Compile.genDone=\u5B8C\u6210 - %0
Deprecated.keyword=\u8B66\u544A: \u5173\u952E\u5B57 `%0' \u5DF2\u8FC7\u65F6\u6210 %0
EvaluationException.1=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.2=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.or=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.xor=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.and=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.plus=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.minus=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.left=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.right=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.times=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.divide=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.mod=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.pos=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.neg=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.not=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
EvaluationException.booleanNot=%0 \u8FD0\u7B97\u7B26\u7684\u64CD\u4F5C\u6570\u4E0D\u4E00\u81F4: \u5173\u5B57 %0
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ParseException.nonAbstractParent3=%0 (%1):  %2

ParseException.notANumber=%0 (%1):  %2

ParseException.nothing=%0 (%1):  %2

ParseException.oneway=%0 (%1):  %2

ParseException.operationNotType=%0 (%1):  %2

ParseException.outOfRange=%0 (%1):  %2

ParseException.illegalIncompleteTypeReference=%0 (%1):  %2

Preprocessor.unknown=%0 (%1):  %2

Preprocessor.unknownPragma=%0 (%1):  %2

Preprocessor.undefinedName=%0 (%1):  %2

Token.boolLit=<true>
Token.charLit=<true>
Token.intLit=<true>
Token.floatLit=<true>
# Translator: In the list of options below, do not translate:
#     -i, -d, -keep, -emitAll, -noWarn, -v, -verbose, -version, #define
#     Do not translate the string "java com.sun.tools.corba.se.idl.Compile"

usage=\u7F16\u6807\u4E86\u6587\u5B57:\n java com.sun.tools.corba.se.idl.Compile
[\u9009\u9879] <idl \u6587\u4EF6> <idl 文\u4EF6> <idl \u6587\u4EF6> <idl \u6587\u4EF6> <idl \u6587\u4EF6> <idl \u6587\u4EF6> <idl \u6587\u4EF6> <idl \u6587\u4EF6> <idl \u6587\u4EF6>

Found in path(s):
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/tools/corba/se/idl/idl_zh_CN.prp

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
jar/com/sun/corba/se/spi/servicecontext/ServiceContexts.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
jar/com/sun/tools/corba/se/idl/toJavaPortable/UnionGen.java
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CORBA IDL

<specification>  typedef, struct, union, enum, const, exception, interface, module

<specification'>   <FOLLOW>, typedef, struct, union, enum, const, exception, interface, module

<definition>     typedef, struct, union, enum, const, exception, interface, module

,module>         module

,module'>         typedef, struct, union, enum, const, exception, interface, module

,module''>       typedef, struct, union, enum, const, exception, interface, module, <FOLLOW>

@interface>     interface

@interface'>     <FOLLOW>, :, { 

@interface_body> typedef, struct, union, enum, const, exception, readonly, attribute, oneway, float, double, long, short, unsigned, char, boolean, octet, any, string, id, ::, void, state

@interface_body'> <FOLLOW>, typedef, struct, union, enum, const, exception, readonly, attribute, oneway, float, double, long, short, unsigned, char, boolean, octet, any, string, id, ::, void, state

<export>         typedef, struct, union, enum, const, exception, readonly, attribute, oneway, float, double, long, short, unsigned, char, boolean, octet, any, string, id, ::, void, state

<state_def>      state

<state_def'>     private, protected, public, float, double, long, short, unsigned, char, boolean, octet, any, sequence, string, id, ::, struct, union, enum, <FOLLOW>

<state_member>   private, protected, public, float, double, long, short, unsigned, char, boolean, octet, any, sequence, string, id, ::, struct, union, enum
<positive_int const> -, +, ~, id, ::, literal, (,
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<type declarator> float, double, long, short, unsigned, char, boolean, octet, any, sequence, string, id, ::, struct, union, enum
<type spec> float, double, long, short, unsigned, char, boolean, octet, any, sequence, string, id, ::, struct, union, enum
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<template type spec> sequence, string
<constr type spec> struct, union, enum
<declarators> id
<declarators> <FOLLOW>, ",`
<declarator> id
<declarator> <FOLLOW>, [
-floating pt type> float, double
-integer type> long, short, unsigned
<signed int> long, short
<unsigned int> unsigned
<char type> char
<boolean type> boolean
<octet type> octet
<any type> any
<struct type> struct
<member list> float, double, long, short, unsigned, char, boolean, octet, any, sequence, string, id, ::, struct, union, enum
<member list> <FOLLOW>, float, double, long, short, unsigned, char, boolean, octet, any, sequence, string, id,
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
jar/com/sun/tools/corba/se/fidl/first.set

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("com.sun.corba.se.impl.logging" "OMGSystemException" OMG

(BAD_CONTEXT
  (IDL_CONTEXT_NOT_FOUND   1 WARNING "IDL context not found")
  (NO_MATCHING_IDL_CONTEXT 2 WARNING "No matching IDL context property")
)

(BAD_INV_ORDER
  (DEP_PREVENT_DESTRUCTION 1 WARNING "Dependency exists in IFR preventing destruction of this object")
  (DESTROY_INDESTRUCTIBLE  2 WARNING "Attempt to destroy indestructible objects in IFR")
  (SHUTDOWN_WAIT_FOR_COMPLETION_DEADLOCK 3 WARNING "Operation would deadlock")
  (BAD_OPERATION_AFTER_SHUTDOWN 4 WARNING "ORB has shutdown")
  (BAD_INVOKE   5 WARNING "Attempt to invoke send or invoke operation of the same Request object more than once ”)
  (BAD_SET_SERVANT_MANAGER 6 WARNING "Attempt to set a servant manager after one has already been set")
  (BAD_ARGUMENTS_CALL    7 WARNING "ServerRequest::arguments called more than once or after a call to ServerRequest::set_exception")
  (BAD_CTX_CALL    8 WARNING "ServerRequest::ctx called more than once or before ServerRequest::arguments or after ServerRequest::ctx, ServerRequest::set_result or ServerRequest::set_exception")
  (BAD_RESULT_CALL   9 WARNING "ServerRequest::set_result called more than once or before ServerRequest::arguments or after ServerRequest::set_result or ServerRequest::set_exception")
  (BAD_SEND    10 WARNING "Attempt to send a DII request after it was sent previously")
  (BAD_POLL_BEFORE 11 WARNING "Attempt to poll a DII request or to retrieve its result before the request was sent")
  (BAD_POLL_AFTER 12 WARNING "Attempt to poll a DII request or to retrieve its result after the result was retrieved previously")
  (BAD_POLL_SYNC 13 WARNING "Attempt to poll a synchronous DII request or to retrieve results from a synchronous DII request")
  (INVALID_PI_CALL1 14 FINE "Invalid call to forward_reference() when reply status is not LOCATION_FORWARD")
  (INVALID_PI_CALL2 14 FINE "Cannot access this attribute or method at this point")
  (INVALID_PI_CALL3 14 FINE "Cannot call set_slot from within an ORBInitializer")
  (INVALID_PI_CALL4 14 FINE "Cannot call get_slot from within an ORBInitializer")
  (SERVICE_CONTEXT_ADD_FAILED 15 FINE "Service context add failed in portable interceptor because a service context with id [0] already exists")
  (POLICY_FACTORY_REG_FAILED 16 WARNING "Registration of PolicyFactory failed because a factory already exists for the given PolicyType [0] ”)
  (CREATE_POA_DESTROY 17 WARNING "POA cannot create POAs while undergoing destruction")
(PRIORITY_REASSIGN 18 WARNING "Attempt to reassign priority")
(XA_START_OUTSIZE 19 WARNING "An OTS/XA integration xa_start() call returned XAER_OUTSIDE")
(XA_STARTPROTO 20 WARNING "An OTS/XA integration xa_call returned XAER_PROTO")

(BAD_OPERATION
 (BAD_SERVANT_MANAGER_TYPE 1 WARNING "ServantManager returned wrong servant type")
 (OPERATION_UNKNOWN_TO_TARGET 2 WARNING "Operation or attribute not known to target object")
)

(BAD_PARAM
 (UNABLE_REGISTER_VALUE_FACTORY 1 WARNING "Failure to register, unregister or lookup value factory")
 (RID_ALREADY_DEFINED 2 WARNING "RID already defined in IFR")
 (NAME_USED_IFR 3 WARNING "Name already used in the context in IFR")
 (TARGET_NOT_CONTAINER 4 WARNING "Target is not a valid container")
 (NAME_CLASH 5 WARNING "Name clash in inherited context")
 (NOT_SERIALIZABLE 6 WARNING "Class {0} is not Serializable")
 (SO_BAD_SCHEMA_NAME 7 WARNING "string_to_object conversion failed due to bad scheme name")
 (SO_BAD_ADDRESS 8 WARNING "string_to_object conversion failed due to bad address")
 (SO_BAD_SCHEMA_SPECIFIC 9 WARNING "string_to_object conversion failed due to bad bad schema specific part")
 (SO_NONSPECIFIC 10 WARNING "string_to_object conversion failed due to non specific reason")
 (IR_DERIVE_ABS_INT_BASE 11 WARNING "Attempt to derive abstract interface from non-abstract base interface in the Interface Repository")
 (IR_VALUE_SUPPORT 12 WARNING "Attempt to let a ValueDef support more than one non-abstract interface in the Interface Repository")
 (INCOMPLETE_TYPECODE 13 WARNING "Attempt to use an incomplete TypeCode as a parameter")
 (INVALID_OBJECT_ID 14 WARNING "Invalid object id passed to POA::create_reference_by_id")
 (TYPECODE_BAD_NAME 15 WARNING "Bad name argument in TypeCode operation")
 (TYPECODE_BAD_REPID 16 WARNING "Bad RepositoryId argument in TypeCode operation")
 (TYPECODE_INV_MEMBER 17 WARNING "Invalid member name in TypeCode operation")
 (TC_UNION_DUP_LABEL 18 WARNING "Duplicate label value in create_union_tc")
 (TC_UNION_INCOMPATIBLE 19 WARNING "Incompatible TypeCode of label and discriminator in create_union_tc")
 (TC_UNION_BAD_DISC 20 WARNING "Supplied discriminator type illegitimate in create_union_tc")
 (SET_EXCEPTION_BAD_ANY 21 WARNING "Any passed to ServerRequest::set_exception does not contain an exception")
 (SET_EXCEPTION_UNLISTED 22 WARNING "Unlisted user exception passed to ServerRequest::set_exception")
 (NO_CLIENT_WCHAR_CODESET_CTX 23 WARNING "wchar transmission code set not in service context")
 (ILLEGAL_SERVICE_CONTEXT 24 WARNING "Service context is not in OMG-defined range")
 (ENUM_OUT_OF_RANGE 25 WARNING "Enum value out of range")
 (INVALID_SERVICE_CONTEXT_ID 26 FINE "Invalid service context Id in portable interceptor")
 (RIR_WITH_NULL_OBJECT 27 WARNING "Attempt to call register_initial_reference with a null Object")
 (INVALID_COMPONENT_ID 28 FINE "Invalid component Id [0] in portable interceptor")
 (INVALID_PROFILE_ID 29 WARNING "Profile ID does not define a known profile or it is impossible to add components to that profile")
 (POLICY_TYPE_DUPLICATE 30 WARNING "Two or more Policy objects with the same PolicyType value supplied to Object::set_policy_overrides or PolicyManager::set_policy_overrides")
(BAD_ONEDAY_DEFINITION 31 WARNING "Attempt to define a oneway operation with non-void result, out or inout parameters or user exceptions")
(DII_FOR_IMPLICIT_OPERATION 32 WARNING "DII asked to create request for an implicit operation")
(XA_CALL_INVAL 33 WARNING "An OTS/XA integration xa_ call returned XAER_INVAL")
(UNION_BAD_DISCRIMINATOR 34 WARNING "Union branch modifier method called with bad case label discriminator")
(CTX_ILLEGAL_PROPERTY_NAME 35 WARNING "Illegal IDL context property name")
(CTX_ILLEGAL_SEARCH_STRING 36 WARNING "Illegal IDL property search string")
(CTX_ILLEGAL_NAME 37 WARNING "Illegal IDL context name")
(CTX_NON_EMPTY 38 WARNING "Non-empty IDL context")
(INVALID_STREAM_FORMAT_VERSION 39 WARNING "Unsupported RMI/IDL custom value type stream format [0]")
(NOT_A_VALUEOUTPUTSTREAM 40 WARNING "ORB output stream does not support ValueOutputStream interface")
(NOT_A_VALUEINPUTSTREAM 41 WARNING "ORB input stream does not support ValueInputStream interface")

(BAD_TYPECODE
  (MARSHALL_INCOMPLETE_TYPECODE 1 WARNING "Attempt to marshal incomplete TypeCode")
  (BAD_MEMBER_TYPECODE 2 WARNING "Member type code illegitimate in TypeCode operation")
  (ILLEGAL_PARAMETER 3 WARNING "Illegal parameter type")
)
(DATA_CONVERSION
  (CHAR_NOT_IN_CODESET 1 WARNING "Character does not map to negotiated transmission code set")
  (PRIORITY_MAP_FAIL 2 WARNING "Failure of PriorityMapping object")
)
(IMP_LIMIT
  (NO_USABLE_PROFILE 1 WARNING "Unable to use any profile in IOR")
)
(Initialize
  (PRIORITY_RANGE_RESTRICT 1 WARNING "Priority range too restricted for ORB")
)
(INV_OBJREF
  (NO_SERVER_WCHAR_CODESET_CMP 1 WARNING "wchar Code Set support not specified")
  (CODESET_COMPONENT_REQUIRED 2 WARNING "Codeset component required for type using wchar or wstring data")
)
(INV_POLICY
  (IOR_POLICY_RECONCILE_ERROR 1 WARNING "Unable to reconcile IOR specified policy with effective policy override")
  (POLICY_UNKNOWN 2 WARNING "Invalid PolicyType")
  (NO_POLICY_FACTORY 3 WARNING "No PolicyFactory has been registered for the given PolicyType")
)
(INternal
  (XA_RMERR 1 WARNING "An OTS/XA integration xa_ call returned XAER_RMERR")
  (XA_RMFAIL 2 WARNING "An OTS/XA integration xa_ call returned XAER_RMFAIL")
)
(INTF_REPOS
  (NO_IR 1 WARNING "Interface Repository not available")
  (NO_INTERFACE_IN_IR 2 WARNING "No entry for requested interface in Interface Repository")
)
(MARSHAL
  (UNABLE_LOCATE_VALUE_FACTORY 1 FINE "Unable to locate value factory")
  (SET_RESULT_BEFORE_CTX 2 WARNING "ServerRequest::set_result called before ServerRequest::ctx when the operation IDL contains a context clause ")
  (BAD_NVLIST 3 WARNING "NVList passed to ServerRequest::arguments does not describe all parameters passed by client")
)
(NOT_AN_OBJECT_IMPL 4 WARNING "Attempt to marshal Local object")
(WCHAR_BAD_GIOP_VERSION_SENT 5 WARNING "wchar or wstring data erroneously sent by client over GIOP 1.0 connection")
(WCHAR_BAD_GIOP_VERSION_RETURNED 6 WARNING "wchar or wstring data erroneously returned by server over GIOP 1.0 connection")
(UNSUPPORTED_FORMAT_VERSION 7 WARNING "Unsupported RMI/IDL custom value type stream format")
(RMIIOP_OPTIONAL_DATA_INCOMPATIBLE1 8 WARNING "No optional data available")
(RMIIOP_OPTIONAL_DATA_INCOMPATIBLE2 8 WARNING "Not enough space left in current chunk")
(RMIIOP_OPTIONAL_DATA_INCOMPATIBLE3 8 FINE "Not enough optional data available")
(NO_IMPLEMENT
(MISSING_LOCAL_VALUE_IMPL 1 WARNING "Missing local value implementation")
(INCOMPATIBLE_VALUE_IMPL 2 WARNING "Incompatible value implementation version")
(NO_USABLE_PROFILE_2 3 WARNING "Unable to use any profile in IOR")
(DII_LOCAL_OBJECT 4 WARNING "Attempt to use DII on Local object")
(BIO_RESET 5 WARNING "Biomolecular Sequence Analysis iterator cannot be reset")
(BIO_META_NOT_AVAILABLE 6 WARNING "Biomolecular Sequence Analysis metadata is not available as XML")
(BIO_GENOMIC_NO_ITERATOR 7 WARNING "Genomic Maps iterator cannot be reset")
(NO_RESOURCES
(PI_OPERATION_NOT_SUPPORTED1 1 FINE "The portable Java bindings do not support arguments()")
(PI_OPERATION_NOT_SUPPORTED2 1 FINE "The portable Java bindings do not support exceptions()")
(PI_OPERATION_NOT_SUPPORTED3 1 FINE "The portable Java bindings do not support contexts()")
(PI_OPERATION_NOT_SUPPORTED4 1 FINE "The portable Java bindings do not support operation_context()")
(PI_OPERATION_NOT_SUPPORTED5 1 FINE "The portable Java bindings do not support result()")
(PI_OPERATION_NOT_SUPPORTED6 1 FINE "The object ID was never set")
(PI_OPERATION_NOT_SUPPORTED7 1 FINE "The ObjectKeyTemplate was never set")
(PI_OPERATION_NOT_SUPPORTED8 1 FINE "ServerRequest::arguments() was never called")
(NO_CONNECTION_PRIORITY 2 WARNING "No connection for request's priority")
(TRANSACTION_ROLLED_BACK
(XA_RB 1 WARNING "An OTS/XA integration xa_call returned XAER_RB")
(XA_NOTA 2 WARNING "An OTS/XA integration xa_call returned XAER_NOTA")
(XA_END_TRUE_ROLLBACK_DEFERRED 3 WARNING "OTS/XA integration end() was called with success set to TRUE while transaction rollback was deferred")
(TRANSIENT
(POA_REQUEST_DISCARD 1 WARNING "Request discarded because of resource exhaustion in POA or because POA is in DISCARDING state")
(NO_USABLE_PROFILE_3 2 WARNING "No usable profile in IOR")
 REQUEST_CANCELED 3 WARNING "Request cancelled")
(POA_DESTROYED 4 WARNING "POA destroyed")

(OBJECT_NOT_EXIST
(UNREGISTERED_VALUE_AS_OBJREF 1 WARNING "Attempt to pass an unactivated (unregistered) value as an object reference")
(NO_OBJECT_ADAPTOR 2 FINE "Failed to create or locate Object Adaptor")
(BIO_NOT_AVAILABLE 3 WARNING "Biomolecular Sequence Analysis Service is no longer available")
(OBJECT_ADAPTER_INACTIVE 4 WARNING "Object Adapter Inactive")
(OBJ_ADAPTER
(ADAPTER_ACTIVATOR_EXCEPTION 1 WARNING "System exception in POA::unknown_adapter for POA {0} with parent POA {1}"
(BAD_SERVANT_TYPE 2 WARNING "Incorrect servant type returned by servant manager ")
(NO_DEFAULT_SERVANT 3 WARNING "No default servant available [POA policy]")
(NO_SERVANT_MANAGER 4 WARNING "No servant manager available [POA Policy]")
(BAD_POLICY_INCARNATE 5 WARNING "Violation of POA policy by ServantActivator::incarnate")
(PI_EXC_COMP_ESTABLISHED 6 WARNING "Exception in PortableInterceptor::IORInterceptor.components_established")
(NULL_SERVANT_RETURNED 7 FINE "Null servant returned by servant manager")
(UNKNOWN
(UNKNOWN_USER_EXCEPTION 1 FINE "Unlisted user exception received by client ")
(UNSUPPORTED_SYSTEM_EXCEPTION 2 WARNING "Non-standard System Exception not supported")
(PI_UNKNOWN_USER_EXCEPTION 3 WARNING "An unknown user exception received by a portable interceptor"))))

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jar/com/sun/corba/se/spi/logging/data/OMG.mc
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org.omg/CORBA/DynArray.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org.omg/CORBA/DynSequence.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org.omg/CORBA/DynFixed.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org.omg/CORBA/DynAny.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org.omg/CORBA/DynValue.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org.omg/CORBA/DynEnum.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/org.omg/CORBA/DynStruct.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com.sun/corba/se/impl/legacy/connection/EndPointInfoImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com.sun/corba/se/spi/legacy/connection/LegacyServerSocketEndPointInfo.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/legacy/connection/SocketFactoryConnectionImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/presentation/rmi/PresentationManagerImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/presentation/rmi/DynamicMethodMarshallerImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/proxy/InvocationHandlerFactory.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/presentation/rmi/DynamicStubImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/presentation/rmi/StubFactoryProxyImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/transport/ByteBufferPoolImpl.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/presentation/rmi/IDLNameTranslator.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/transport/CorbaOutboundConnectionCacheImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/legacy/connection/SocketFactoryAcceptorImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/presentation/rmi/DynamicMethodMarshaller.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/presentation/rmi/IDLType.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/javax/rmi/CORBA/Stub.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/javax/rmi/PortableRemoteObject.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA_2_3/portable/OutputStream.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/io/IIOPOutputStream.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org/omg/CORBA_2_3/portable/InputStream.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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  jar/org/omg/CORBA/TypeCodeHolder.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org/omg/CORBA/AnyHolder.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org/omg/CORBA/ObjectHolder.java

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"com.sun.corba.se.impl.logging" "POASystemException" POA

(BAD_INV_ORDER
  (SERVANT_MANAGER_ALREADY_SET 1 WARNING "Servant Manager already set")
  (DESTROY_DEADLOCK 2 WARNING "Request to wait for POA destruction while servicing request would deadlock")
(BAD_OPERATION
  (SERVANT_ORB 1 WARNING "Bad operation on servant ORB???")
  (BAD_SERVANT 2 WARNING "Bad Servant???")
  (ILLEGAL_FORWARD_REQUEST 3 WARNING "Illegal Forward Request???")
(BAD_PARAM
  (BAD_TRANSACTION_CONTEXT 1 WARNING "Bad transaction context")
  (BAD_REPOSITORY_ID 2 WARNING "Bad repository id")
(INTERNAL
  (INVOKESETUP 1 WARNING "invoke setup???")
  (BAD_LOCALREPLYSTATUS 2 WARNING "bad local reply status???")
  (PERSISTENT_SERVERPORT_ERROR 3 WARNING "persistent serverport error???")
  (SERVANT_DISPATCH 4 WARNING "servant dispatch???")
  (WRONG_CLIENTSC 5 WARNING "wrong client request dispatcher???")
  (CANT_CLONE_TEMPLATE 6 WARNING "can't clone template???")
  (POACURRENT_UNBALANCED_STACK 7 WARNING "POACurrent stack is unbalanced")
  (POACURRENT_NULL_FIELD 8 WARNING "Null field in POACurrent")
  (POA_INTERNAL_GET_SERVANT_ERROR 9 WARNING "POA internalGetServant error")
  (MAKE_FACTORY_NOT_POA 10 WARNING "First Object Adapter name is {0}, should be RootPOA")
  (DUPLICATE_ORB_VERSION_SC 11 WARNING "Duplicate ORB version service context")
  (PREINVOKE_CLONE_ERROR 12 WARNING "preinvoke clone error")
  (PREINVOKE_POA_DESTROYED 13 WARNING "preinvoke POA destroyed")
  (PMF_CREATE_RETAIN 14 WARNING "Bad dispatch policy for RETAIN policy in POAPolicyMediatorFactory")
  (PMF_CREATE_NON_RETAIN 15 WARNING "Bad dispatch policy for NON_RETAIN policy in POAPolicyMediatorFactory")
  (POLICY_MEDIATOR_BAD_POLICY_IN_FACTORY 16 WARNING "Inconsistent policy in PolicyMediator")
  (SERVANT_TO_ID_OAA 17 WARNING "ObjectAlreadyActive in servantTold")
  (SERVANT_TO_ID_SAA 18 WARNING "ServantAlreadyActive in servantTold")
  (SERVANT_TO_ID_WP 19 WARNING "WrongPolicy in servantTold")
  (CANT_RESOLVE_ROOT_POA 20 WARNING "Can't resolve root POA")
  (SERVANT_MUST_BE_LOCAL 21 WARNING "Call made to local client request dispatcher with non-local servant")
  (NO_PROFILES_IN_IOR 22 WARNING "IOR does not have any profiles")
  (AOM_ENTRY_DEC_ZERO 23 WARNING "Tried to decrement AOMEntry counter that is already 0")
  (ADD_POA_INACTIVE 24 WARNING "Tried to add a POA to an inactive POAManager")
(ILLEGAL_POA_STATE_TRANS 25 WARNING "POA tried to make an illegal state transition")
(UNEXPECTED_EXCEPTION 26 WARNING "Unexpected exception in POA {0}")
(NO_IMPLEMENT
(SINGLE_THREAD_NOT_SUPPORTED 1 WARNING "Single thread policy is not supported")
(METHOD_NOT_IMPLEMENTED 2 WARNING "This method is not implemented")
(OBI_ADAPTER
(POA_LOOKUP_ERROR 1 WARNING "Error in find_POA")
(POA_INACTIVE 2 FINE "POA is inactive")
(POA_NO_SERVANT_MANAGER 3 WARNING "POA has no servant manager")
(POA_NO_DEFAULT_SERVANT 4 WARNING "POA has no default servant")
(POA_SERVANT_NOT_UNIQUE 5 WARNING "POA servant is not unique")
(POA_WRONG_POLICY 6 WARNING "Bad policy in POA")
(FINDPOA_ERROR 7 WARNING "Another error in find_POA")
(POA_SERVANT_ACTIVATOR_LOOKUP_FAILED 9 WARNING "POA ServantActivator lookup failed")
(POA_BAD_SERVANT_MANAGER 10 WARNING "POA has bad servant manager")
(POA_SERVANT_LOCATOR_LOOKUP_FAILED 11 WARNING "POA ServantLocator lookup failed")
(POA_UNKNOWN_POLICY 12 WARNING "Unknown policy passed to POA")
(POA_NOT_FOUND 13 WARNING "POA not found")
(SERVANT_LOOKUP 14 WARNING "Error in servant lookup")
(LOCAL_SERVANT_LOOKUP 15 WARNING "Error in local servant lookup")
(SERVANT_MANAGER_BAD_TYPE 16 WARNING "Bad type for servant manager")
(DEFAULT_POA_NOT_POAIMPL 17 WARNING "Servant's _default_POA must be an instance of POAImpl")
(WRONG_POLICIES_FOR_THIS_OBJECT 18 WARNING "Wrong POA policies for _this_object called outside of an invocation context")
(THIS_OBJECT_SERVANT_NOT_ACTIVE 19 WARNING "ServantNotActive exception in _this_object")
(THIS_OBJECT_WRONG_POLICY 20 WARNING "WrongPolicy exception in _this_object")
(NO_CONTEXT 21 FINE "Operation called outside of invocation context")
(INCARNATE_RETURNED_NULL 22 WARNING "ServantActivator.incarnate() returned a null Servant")
(INITIALIZE
(JTS_INIT_ERROR 1 WARNING "JTS initialization error")
(PERSISTENT_SERVERID_NOT_SET 2 WARNING "Persistent server ID is not set")
(PERSISTENT_SERVERPORT_NOT_SET 3 WARNING "Persistent server port is not set")
(ORB_E error 4 WARNING "Error in ORBD")
(BOOTSTRAP_ERROR 5 WARNING "Error in bootstrap")
(T transient
(POA_DISCARDING 1 FINE "POA is in discarding state")
(UNKNOWN
(OTSHOOKEXCEPTION 1 WARNING "Error in OTS hook")
(UNKNOWN_SERVER_EXCEPTION 2 WARNING "Unknown server exception")
(UNKNOWN_SERVERAPP_EXCEPTION 3 WARNING "Unknown server application exception")
(UNKNOWN_LOCAL_INVOCATION_ERROR 4 WARNING "Unknown local invocation error")
(OBJECT NOT EXIST
(ADAPTER_ACTIVATOR_NONEXISTENT 1 WARNING "AdapterActivator does not exist")
(ADAPTER_ACTIVATOR_FAILED 2 WARNING "AdapterActivator failed")
(BAD_SKELETON 3 WARNING "Bad skeleton")
(NULL_SERVANT 4 FINE "Null servant")
(ADAPTER_DESTROYED 5 WARNING "POA has been destroyed")))
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  jar/com/sun/corba/se/impl/orbutil/resources/sunorb_zh_TW.properties
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/orbutil/concurrent/DebugMutex.java
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jar/com/sun/tools/corba/se/idl/UnionGen.java
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* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/tool/JavaPortable/Helper24.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com.sun.corba.se.impl.io/TypeMismatchException.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/META-INF/versions/9/com.sun.corba.se.impl/io/TypeMismatchException.java

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  jar/com/sun/corba/se/impl/orbutil/ObjectUtility.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/oa/poa/AOMEntry.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/spi/orb/ParserImplBase.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/spi/orb/PrefixParserAction.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/spi/transport/CorbaConnection.java

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  jar/org.omg/CORBA/portable/ServantObject.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBA/SetOverrideType.java

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("com.sun.corba.se.impl.logging" "InterceptorsSystemException" INTERCEPTORS

(BAD_PARAM
   (TYPE_OUT_OF_RANGE  1 WARNING "Interceptor type {0} is out of range")
   (NAME_NULL       2 WARNING "Interceptor's name is null: use empty string for anonymous interceptors")
)

(BAD_INV_ORDER
   (RIR_INVALID_PRE_INIT  1 WARNING "resolve_initial_reference is invalid during pre_init")
   (BAD_STATE1       2 WARNING "Expected state {0}, but current state is {1}"
   (BAD_STATE2       3 WARNING "Expected state {0} or {1}, but current state is {2}"
)

(COMM_FAILURE
   (IOEXCEPTION_DURING_CANCEL_REQUEST 1 WARNING "IOException during cancel request")
)

(INTERNAL
   (EXCEPTION_WAS_NULL  1 WARNING "Exception was null")
   (OBJECT_HAS_NO_DELEGATE 2 WARNING "Object has no delegate")
   (DELEGATE_NOT_CLIENTSUB 3 WARNING "Delegate was not a ClientRequestDispatcher")
   (OBJECT_NOT_OBJECTIMPL 4 WARNING "Object is not an ObjectImpl")
   (EXCEPTION_INVALID  5 WARNING "Assertion failed: Interceptor set exception to UserException or
APPLICATIONException")
   (REPLY_STATUS_NOT_INIT 6 WARNING "Assertion failed: Reply status is initialized but not
SYSTEM_EXCEPTION or LOCATION_FORWARD")

(EXCEPTION_IN_ARGUMENTS 7 WARNING "Exception in arguments")

(EXCEPTION_IN_EXCEPTIONS 8 WARNING "Exception in exceptions")

(EXCEPTION_IN_CONTEXTS 9 WARNING "Exception in contexts")

(EXCEPTION_WAS_NULL_2 10 WARNING "Another exception was null")

(SERVANT_INVALID 11 WARNING "Servant invalid")

(CANT_POP_ONLY_PICURRENT 12 WARNING "Can't pop only PICurrent")

(CANT_POP_ONLY_CURRENT_2 13 WARNING "Can't pop another PICurrent")

(PI_DSI_RESULT_IS_NULL 14 WARNING "DSI result is null")

(PI_DII_RESULT_IS_NULL 15 WARNING "DII result is null")

(EXCEPTION_UNAVAILABLE 16 WARNING "Exception is unavailable")

(CLIENT_INFO_STACK_NULL 17 WARNING "Assertion failed: client request info stack is null")

(SERVER_INFO_STACK_NULL 18 WARNING "Assertion failed: Server request info stack is null")

(MARK_AND_RESET_FAILED 19 WARNING "Mark and reset failed")

(SLOT_TABLE_INVARIANT 20 WARNING "currentIndex > tableContainer.size(): {0} > {1}"

(INTERCEPTOR_LIST_LOCKED 21 WARNING "InterceptorList is locked")

(SORT_SIZE_MISMATCH 22 WARNING "Invariant: sorted size + unsorted size == total size was
violated")

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(PI_ORB_NOT_POLICY_BASED 1 WARNING "Policies not implemented")
(OBJECT_NOT_EXIST
  (ORBINITINFO_INVALID 1 FINE "ORBInitInfo object is only valid during ORB_init")
(UNKNOWN
  (UNKNOWN_REQUEST_INVOKE
    1 FINE "Unknown request invocation error")))

;;; End of file.

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  */opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/logging/data/Interceptors.mc
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  */opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org.omg/CORBA/FieldNameHelper.java
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 * appear in the operation's raises expression. UNKNOWN is
 * also raised if the server returns a system exception that
 * is unknown to the client. (This can happen if the server
 * uses a later version of CORBA than the client and new system
 * exceptions have been added to the later version.)<P>
 * It contains a minor code, which gives more detailed information about
 * what caused the exception, and a completion status. It may also contain
 * a string describing the exception.
 * <P>
 * See the section <A href="/technology/technotes/idl/jidlExceptions.html#minorcodemeanings">Minor
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 *
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/naming/pcosnaming/NameServer.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/oa/OAInvocationInfo.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/servicecontext/UEInfoServiceContext.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/naming/pcosnaming/NameService.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/CacheTable.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/activation/NameServiceStartThread.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/servicecontext/UnknownServiceContext.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/naming/pcosnaming/NamingContextImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orb/KeyCodeFactory.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/servicecontext/ServiceContextData.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/servicecontext/CodeSetServiceContext.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/naming/pcosnaming/ServantManagerImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/naming/pcosnaming/InternalBindingValue.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/naming/pcosnaming/PersistentBindingIterator.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/META-INF/versions/9/com/sun/jndi/cosnaming/OrbReuseTracker.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/encoding/MarshalOutputStream.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/protocol/CorbaServerRequestDispatcher.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/legacy/connection/LegacyServerSocketManager.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/legacy/connection/LegacyServerSocketManagerImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/monitoring/package.html

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  jar/org.omg/CORBA/CompletionStatus.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBA/Context.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBA/NVList.java

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  jar/org.omg/CORBA/ServiceInformation.java
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  jar/org.omg/CORBA/BAD_POLICY.java
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  jar/org.omg/CORBA/DomainManager.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBA/NameValuePair.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBA/Policy.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBA/ServiceDetail.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBA/ServiceDetailHelper.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBA/BAD_POLICY_VALUE.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBA/ServiceInformationHolder.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBA/UNSUPPORTED_POLICY_VALUE.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/org.omg/CORBA/BAD_POLICY_TYPE.java
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  jar/org/omg/CORBA_2_3/portable/ObjectImpl.java
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  jar/org/omg/CORBA/portable/ValueFactory.java
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 * /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/protocol/giopmsgheaders/RequestMessage.java

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/** Return a resolver that uses the proprietary bootstrap protocol
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*/

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#
# COMPONENT_NAME: idl.parser
Compile.parsing=Parsing %0
Compile.parseDone=done - %0
Compile.generating=Generating %0
Compile.genDone=done - %0
 Deprecated.keyword=WARNING: Keyword `%0' is deprecated.
EvaluationException.1=Operands of %0 operator are inconsistent: %1 and %2.
EvaluationException.2=Operand of %0 operator must be a number, not a %1.
EvaluationException.or=bitwise or
EvaluationException.xor=bitwise xor
EvaluationException.and=bitwise and
EvaluationException.plus=addition
EvaluationException.minus=subtraction
EvaluationException.left=left shift
EvaluationException.right=right shift
EvaluationException.times=multiplication
EvaluationException.divide=division
EvaluationException.mod=modulo
EvaluationException.pos=unary positive
EvaluationException.neg=unary negation
EvaluationException.not=bitwise not
EvaluationException.booleanNot=boolean not
EvaluationException.booleanAnd=boolean and
EvaluationException.booleanOr=boolean or
EvaluationException.equal=equal
EvaluationException.notEqual=not equal
EvaluationException.greaterThan=greater than
EvaluationException.lessThan=less than
EvaluationException.greaterEqual=greater than or equal
EvaluationException.lessEqual=less than or equal
GenFileStream.1=%0 could not be generated: %1
InvalidArgument.1=Invalid argument: %0.
InvalidArgument.2=No IDL file was specified.
InvalidCharacter.1=%0 (line %1): invalid character: %2 (ASCII %3).
Migration.futureKeyword=WARNING: Identifier `%0' collides with a keyword; use an escaped identifier to ensure future compatibility.
Migration.keywordCollision=WARNING: Identifier `%0' collides with a keyword; use an escaped identifier to ensure future compatibility.
ParseException.abstractValueBox=%0 (line %1): A value box cannot be declared abstract.
ParseException.alreadyDeclared=%0 (line %1): %2 has already been declared.
ParseException.declNotInSameFile=%0 (line %1): %2 was declared previously in a forward declaration in file %3.
ParseException.alreadyDerived=%0 (line %1): %2 has already been declared as a parent of %3.
ParseException.alreadyDefaulted=%0 (line %1): The default branch has already been encountered.
ParseException.alreadyRaised=%0 (line %1): %2 already specified in raises clause.
ParseException.attributeNotType=%0 (line %1): %2 is an attribute. It cannot be used as a type.
ParseException.badAbstract=%0 (line %1): The forward and actual declaration of %2 is inconsistent. One is abstract and the other is not.
ParseException.badCustom=%0 (line %1): A forward value declaration cannot be declared custom.
ParseException.badRepIDAlreadyAssigned=%0 (line %1): Type %2 has already been assigned a Repository ID in a previous ID pragma directive.
ParseException.badRepIDForm=%0 (line %1): Repository ID '%2' should have form '<format>:<string>'.
ParseException.badRepIDPrefix=%0 (line %1): Interface %2 should have Repository ID prefix '%3', not '%4'.
ParseException.badState=%0 (line %1): %2 cannot be a stateful interface; it has more than one stateful parent.
ParseException.branchLabel=%0 (line %1): case %2 has already been declared.
ParseException.branchName=%0 (line %1): A branch named %2 has already been declared.
ParseException.wrongType=%0 (line %1): The type of %2 is %3, but it should be %4.

ParseException.illegalIncompleteTypeReference=%0 (line %1): Illegal reference to incomplete forward declaration of type %2.

Preprocessor.unknown=Unknown preprocessor directive, `\%0'. Line ignored.

Preprocessor.unknownPragma=Unknown pragma `\%0'. Line ignored.

Preprocessor.undefinedName=Undefined type name for pragma `\%0': %1. Line ignored.

Token.boolLit=<boolean literal>

Token.charLit=<character literal>

Token.intLit=<integer literal>

Token.floatLit=<floating point literal>

Token.stringLit=<string literal>

Token.literal=<literal>

Token.identifier=<identifier>

Token.endOfFile=EOF

Token.unknown=Unknown token

Util.cantCreatePkg=Cannot create package %0.

Version.product=IDL Parser Framework, version "\%0"

Version.number=3.2

default=Error! A message was requested which does not exist. The messages file does not contain the key: %0.

# Translator: In the list of options below, do not translate:
#             -i, -d, -keep, -emitAll, -noWarn, -v, -verbose, -version, #define
#             Do not translate the string "java com.sun.tools.corba.se.idl.Compile"

usage=Compiler Usage:
\java com.sun.tools.corba.se.idl.Compile [options] <idl file>

where <idl file> is the name of a file containing IDL definitions, and
[options] is any combination of the options listed below. The options
are optional and may appear in any order; <idl file> is required and
must appear last.

Options:
-d <symbol> This is equivalent to the following line in an IDL file:
    #define <symbol>

-emitAll Emit all types, including those found in #included files.

-i <include path> By default, the current directory is scanned for included files. This option adds another directory.
-keep If a file to be generated already exists, do not overwrite it. By default it is overwritten.
-noWarn Suppress warnings.
-v, -verbose Verbose mode.
-version Display the version number.

Found in path(s):
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/tools/corba/se/idl/idl.prp
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;
("com.sun.corba.se.impl.logging" "IORSystemException" IOR

(INTERNAL
  (ORT_NOT_INITIALIZED 1 WARNING "ObjectReferenceTemplate is not initialized")
  (NULL_POA 2 WARNING "Null POA")
  (BAD_MAGIC 3 WARNING "Bad magic number {0} in ObjectKeyTemplate")
  (STRINGIFY_WRITE_ERROR 4 WARNING "Error while stringifying an object reference")
  (TAGGED_PROFILE_TEMPLATE_FACTORY_NOT_FOUND 5 WARNING "Could not find a
TaggedProfileTemplateFactory for id {0}")
  (INVALID_JDK1_3_1_PATCH_LEVEL 6 WARNING "Found a JDK 1.3.1 patch level indicator with value {0}
less than JDK 1.3.1.01 value of 1")
  (GET_LOCAL_SERVANT_FAILURE 7 FINE "Exception occurred while looking for ObjectAdapter {0} in
IIOPProfileImpl.getServant")
)
(BAD_OPERATION
  (ADAPTER_ID_NOT_AVAILABLE 1 WARNING "Adapter ID not available")
  (SERVER_ID_NOT_AVAILABLE 2 WARNING "Server ID not available")
  (ORB_ID_NOTAVAILABLE 3 WARNING "ORB ID not available")
  (OBJECT_ADAPTER_ID NOT_AVAILABLE 4 WARNING "Object adapter ID not available")
)
(BAD_PARAM
  (BAD_OID_IN_IOR_TEMPLATE_LIST 1 WARNING "Profiles in IOR do not all have the same Object ID, so
conversion to IORTemplateList is impossible")
  (INVALID_TAGGED_PROFILE 2 WARNING "Error in reading IIOP TaggedProfile")
)
(BAD_IIO_ADDRESS_PORT_3 WARNING "Attempt to create IIOPAdiress with port {0}, which is out of range")

(INV_OBIREF
  (IOR_MUST_HAVE_IIO_PROFILE 1 WARNING "IOR must have at least one IIO profile")))

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/logging/data/IOR.mc

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  jar/com/sun/corba/se/impl/orbutil/concurrent/SyncUtil.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/orbutil/LegacyHookPutFields.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/orbutil/LegacyHookGetFields.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/ior/ByteBuffer.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/ior/ObjectAdapterIdNumber.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/org.omg/CORBAA_2_3/ORB.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/encoding/CodeSetComponentInfo.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/oa/toa/TOAImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/pept/transport/Acceptor.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/encoding/CodeSetConversion.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/encoding/CDRInputObject.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/pept/protocol/MessageMediator.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/encoding/CDROutputObject.java

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-->
usage=Compiler Usage:
java com.sun.tools.corba.se.idl.toJavaPortable.Compile [options] <idl file>

where <idl file> is the name of a file containing IDL definitions, and [options] is any combination of the options listed below. The options must appear last.

Options:
-d <symbol> This is equivalent to the following line in an IDL file: #define <symbol>
-emitAll Emit all types, including those found in #included files.
-f<side> Define what bindings to emit. <side> is one of client, server, all, serverTIE, allTIE. serverTIE and allTIE cause delegate model skeletons to be emitted. If this flag is not used, -fclient is assumed.
-i <include path> By default, the current directory is scanned for included files. This option adds another directory.
-keep If a file to be generated already exists, do not overwrite it. By default it is overwritten.
-noWarn Suppress warnings.
-oldImplBase Generate skeletons compatible with old (pre-1.4) JDK ORBs.
-pkgPrefix <t> <prefix> When the type or module name <t> is encountered at file scope, begin the Java package name for all files generated for <t> with <prefix>.
-pkgTranslate <t> <pkg> When the type or module name <t> in encountered, replace it with <pkg> in the generated java package. Note that pkgPrefix changes are made first. <t> must match the full package name exactly. Also, <t> must not be org, org.omg, or any subpackage of org.omg.
-skeletonName <xxx%yyy> Name the skeleton according to the pattern.
The defaults are:

- `%POA` for the POA base class (-fserver or -fall) %
- `%ImplBase` for the oldImplBase base class
- (-oldImplBase and (-fserver or -fall)).

- `td <dir>` use <dir> for the output directory instead of the current directory.
- `tieName <xxx%yyy>` Name the tie according to the pattern. The defaults are:
- `%POATie` for the POA tie (-fserverTie or -fallTie)
- `%Tie` for the oldImplBase tie
- (-oldImplBase and (-fserverTie or -fallTie)).

- `-v, -verbose` Verbose mode.
- `-version` Display the version number and quit.

Found in path(s):
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/idl/toJavaPortable/toJavaPortable.prp

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/javaxis/rmi/CORBA/ClassDesc.java
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  jar/org.omg/CORBA/TRANSACTION_UNAVAILABLE.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/corba/ContextListImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/corba/ExceptionListImpl.java
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* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/activation/ServerTableEntry.java
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* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/oa/poa/RequestProcessingPolicyImpl.java
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* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/oa/poa/POACurrent.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/oa/poa/IdUniquenessPolicyImpl.java

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/corba/RequestImpl.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/encoding/BufferManagerReadStream.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/legacy/connection/DefaultSocketFactory.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/impl/io/IIOPInputStream.java
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#

# COMPONENT_NAME: idl.parser
#
# ORIGINS: 27
#
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# RMI-IIOP v1.0
#

# Translator: Each line below is of the form "<key>=<message>".
# The keys are NOT to be translated.
# The messages ARE to be translated.
#
# DO NOT translate the following:
# ASCII
# #else
# #endif
# IDL
#
# %0, %1, etc. are postional parameters to the message. Do not
# translate these. The number order is the order they are given to
# the message writer. It is OK to change their order in the message
# if the language grammar so dictates.
#
# Lines of the form "%0 (line %1):  <some message>\n%x\n%y" are error
# messages: %0 is a filename; %1 is a line number; %x is line %1 from
# %0; %y is the error marker. So the message comes out looking like:
# <filename> (line xxx):  <some message>
# Line xxx from <filename> where the carat points to the error
# ^
# So the first two and the last two parameters of these messages must
# remain in their positions.
#
# A backslash (\) at the end of a line is a line continuation
# character. A backslash at the beginning of a line means don't
# ignore leading blanks (they normally are). These backslashes
# should remain in the message.
#
# Translator: Start Translating

Compile.parsing=%0u306Eu89E3u6790a4E2D
Compile.parseDone=\u5B8Cu4E86 - %0
Compile.generating=%0u306Eu751Fu6210a4E2D
Compile.genDone=\u5B8Cu4E86 - %0
Deprecated.keyword=\u8B66\u544A:
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ParseException.nonAbstractParent2=%0 (u884C%1):
abstractву5024%2ву306F vũ975Eabstractву5024%3ву304Bву3089ву7D99ву627Fву3067ву304Dву307E vũ305B vũ3093\u3002ву3002\u4n%5
ParseException.nonAbstractParent3=%0 (u884C%1):
\u5024%2ву306F vũ6307ву5B9quivo3069ву304A肟308A肟306B肟975Eabstractву5024%3肟304B肟3089肟7D99肟627F肟\u3067肟304D肟307E肟305B肟3093肟3002\u4n%5
ParseException.notANumber=%0 (u884C%1):
\u5024%2肟306F肟307E肟305B肟3093肟3002\u4n%4
ParseException.notPosInt=%0 (u884C%1):
%2肟306F肟307E肟305B肟3093肟3002\u4n%4
ParseException.operationNotType=%0 (u884C%1):
%2肟306F肟307E肟305B肟3093肟3002\u4n%4
ParseException.outOfRange=%0 (u884C%1):
\u5B9A\u6570肟306F肟307E肟305B肟3093肟3002\u4n%4
ParseException.recursive=%0 (u884C%1):
%2肟306F肟307E肟305B肟3093肟3002\u4n%4
ParseException.stringTooLong=%0 (u884C%1):
"%2"肟306F肟307E肟305B肟3093肟3002\u4n%4
ParseException.warning=%0 (u884C%1): %2
ParseException.undeclaredType=%0 (u884C%1):
%2肟306F肟307E肟305B肟3093肟3002\u4n%4
ParseException.unclosed=%0:

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ParseException.wrongType=%0 (u884C%1):
%2u306Eu578Bu306F%3u3067u3059u304Cu3001%4u306Bu3059u308Bu5FC5u8981u304Cu3042u308Au307Eu3059u3002u%5u%6
ParseException.illegalIncompleteTypeReference=%0 (u884C%1):
%2u578Bu306Eu4uE0Du5B8Cu5168u306Aforwardu5BA3u8A00u3078u306Eu7121u52B9u306Au53C2u7167u3067u3059u3002u%3u%4
Preprocessor.unknown=4E0Du660Eu306Au30D7u306Eu30BBu30C3u30B5u30FBu30C7u30A3u30ECu30AFu30C6u30A3u30D6 %0u3067u3059u3002u884Cu306Fu7121u8996u3055u308Cu307Eu3057u305Fu3002
Preprocessor.unMappedPragma=4E0Du660Eu306Au30D7u30E9u30B0u30DE%0u3067u3059u3002u884Cu306Fu7121u8996u3055u308Cu307Eu3057u305Fu3002
Preprocessor.undefinedName=307Du7u30E9u30B0u30DE%0u306Eu578Bu540Du304Cu672Au5B9Au7FA9
\u3067u3059: %1u3002u884Cu306Fu7121u8996u3055u308Cu307Eu3057u305Fu3002
Token.boolLit=<boolean literal>
Token.charLit=<character literal>
Token.intLit=<integer literal>
Token.floatLit=<floating point literal>
Token.stringLit=<string literal>
Token.literal=<literal>
Token.identifier=<identifier>
Token.endOfFile=EOF
Token.unknown=?
Util.cantCreatePkg=4E0Du30FCu30B8%0u3092u4F5Cu6210u3067u304Du307Eu305Bu3093u3002
Version.product=IDL4E0Du30FCu30B5u30FCu30FBu30D5u30ECu30FCu30E0u30EFu30FCu30AFu301u30D0u30FCu30BBu307Eu303F"%0"
Version.number=3.2
default=30A8u30E9u30FCu3002u5B8u5728u3057u306Au3044u30E1u30C3u30BBu30FCu30B8u304Cu30EAu30AFu30A8u30B9u30C8u3055u308Cu307Eu3057u305Fu3002u30E1u30C3u30BBu30FCu30B8u30FBu30D5u30A1u30A4u30EBu306Bu30ADu30FCu304Cu542Bu307Eu308Cu3066u3044u307Eu305Bu3093: %0u3002

# Translator: In the list of options below, do not translate:
# -i, -d, -keep, -emitAll, -noWarn, -v, -verbose, -version, #define
# Do not translate the string "java com.sun.tools.corba.se.idl.Compile"

usage=\u30B3\u30F3\u30D1\u30C3\u30B1\u30FC\u30B8%0\u3092u4F5\u6210\u3067\u304D\u307E\u305B\u3093u3002
\u30AA\u30D7\u30B7\u30E7\u30F3:
-d <symbol>
IDL\u30D1\u30A4\u30E9u306Eu4F7\u7528u65B9u6CD5:6java
com.sun.tools.corba.se.idl.Compile [options] \u30fd file \u30fd
file=306Fu30DFLu30B9Au7FA9u3092u542Bu3080u30D5u30A1u30A4u30EBu306Eu540Du304Du524D\u3067u301u\u306Fu306Eu6B21u306Bu30EAu30BBu30C8u3059u308Bu30AAu30D7u30E7u30F3u306E\u7D44u5408u305Bu3059u3002u30AAu30D7u30BBu307Eu30FFu306Fu7701u756Eu53EFu80F\u3067u3001u4E0Bu610Fu306Eu906Eu5E8Pu3067u8868u793Au3055u308Cu307Eu3059u3002u30FFu306F\u6700u5F8Cu306Bu8868u793Au3059u308Bu5FC5u8981u304Cu3042u308Au307Eu3059u3002u30AAu30D7u30BBu30E7u30F3:6u-<symbol>
IDLu30DFLu30A1u30A4u30EBu306Eu6B21u306Eu884Cu3068n \u540Cu3058u3067u3059: #define <symbol> \u30eb-emitAll
#include30D5u30A1u30A4u30EBu3067u8988Bu3064u304Bu3063u305Fu30BFu30A4u30D7u3092u54
2Bu3080u3001u3059u3079u3066u306Eu30BFu30A4u30D7u3092u

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
jar/com/sun/tools/corba/se/idl/idlJa.prp
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jar/com/sun/corba/se/impl/encoding/IDLJavaSerializationOutputStream.java
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/transport/DefaultSocketFactoryImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/presentation/rmi/InvocationHandlerFactoryImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/presentation/rmi/StubFactoryFactoryProxyImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/presentation/rmi/StubFactoryDynamicBase.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/presentation/rmi/IDLTypeException.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/monitoring/MonitoredObjectFactoryImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/monitoring/MonitoredObjectFactoryImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/copyobject/ORBStreamObjectCopierImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/pept/transport/OutboundConnectionCache.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/monitoring/StringMonitoredAttributeBase.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/monitoring/MonitoringConstants.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orb/ObjectReferenceProducerBase.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/orbutil/closure/ClosureFactory.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/orb/WriteContents.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/orbutil/threadpool/NoSuchThreadPoolException.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/copyobject/ObjectCopierFactory.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/monitoring/MonitoredAttributeBase.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/presentation/rmi/ExceptionHandler.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/monitoring/LongMonitoredAttributeBase.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/pept/transport/ByteBufferPool.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/copyobject/CopierManager.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/logging/LogWrapperFactory.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/monitoring/MonitoredAttributeInfo.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/orb/Work.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/graph/NodeData.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/legacy/interceptor/ORBInitInfoExt.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/monitoring/MonitoredObjectFactory.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/ior/TaggedProfileTemplateBase.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/graph/GraphImpl.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/spi/ior/ObjectKeyFactory.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/transport/ListenerThreadImpl.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/orbutil/graph/Node.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1.jar/com/sun/corba/se/impl/transport/EventHandlerBase.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/orbutil/threadpool/WorkQueue.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/ior/TaggedComponentFactoryFinder.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/transport/CorbaTransportManager.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/or/IORFactories.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/protocol/giopmsgheaders/LocateReplyOrReplyMessage.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/monitoring/MonitoredAttributeInfoFactory.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/resolver/FileResolverImpl.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/pept/transport/ReaderThread.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/copyobject/ObjectCopier.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/or/IORTemplateListImpl.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/copyobject/ReflectiveCopyException.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/oa/NullServant.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/or/IORFactory.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/monitoring/MonitoredObjectImpl.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/monitoring/StatisticMonitoredAttribute.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/or/ObjectId.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/oa/NullServantImpl.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/or/EncapsulationFactoryBase.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/transport/CorbaConnectionCache.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/pept/transport/EventHandler.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/tools/corba/se/logutil/StringUtil.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/or/TaggedProfileTemplateFactoryFinderImpl.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/extension/ZeroPortPolicy.java
* /opt/cola/permits/110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/graph/Graph.java
const AssociationOptions Confidentiality = 4;

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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/copyobject/CopierManagerImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/impl/orb/ObjectReferenceFactoryImpl.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/orbutil/threadpool/NoSuchWorkQueueException.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-jar/com/sun/corba/se/spi/monitoring/StatisticsAccumulator.java

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Summary and suggested reading order:

==============================================================================
Connection interceptor (called an ORBSocketFactory):
Summary:

The server side part of the ORBSocketFactory is told the type to create as well as a port number.

The client side part of the ORBSocketFactory is called on every client request. An ORB first asks the factory for type/host/port information (given an IOR). If the ORB already has a connection of the type/host/port it will use the existing connection. Otherwise it will then ask the factory to create a client socket, giving it that type/host/port. Finally, the createSocket method may throw an exception to tell the ORB to ask it for type/host/port info again. The information passed back and forth between the ORB and factory can act as a cookie for the factory if desired.

Interfaces:

com.sun.corba.se.spi.legacy.connection.ORBSocketFactory
com.sun.corba.se.spi.legacy.connection.EndPointInfo
com.sun.corba.se.spi.legacy.connection.GetEndPointInfoAgainException

Access to a request's socket:

Summary:

The request's socket is available via ClientRequestInfo and ServerRequestInfo. We enable this by having them implement the RequestInfoExt interface.

Interfaces:

com.sun.corba.se.spi.legacy.interceptor.RequestInfoExt
com.sun.corba.se.spi.legacy.connection.Connection

Extending IORInfo to support the multiple server port API:

Summary:

We support the multiple server port API in PortableInterceptors by having IORInfo implement the IORInfoExt interface. The description on how to use the multiple server port APIs is found in ORBSocketFactory.java.

Interfaces:
com.sun.corba.se.spi.legacy.interceptor.IORInfoExt
com.sun.corba.se.spi.legacy.interceptor.UnknownType

;; End.

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  jar/com/sun/corba/se/spi/legacy/connection/README.txt
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* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
  jar/com/sun/corba/se/impl/util/JDKClassLoader.java
* /opt/cola/permits/1110675136_1654022949.6575058/0/openjdk-orb-8-1-2-final-sources-1-
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1.2219 python-chardet 2.2.1 3.el7

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`cmd/krb5/kadmin/server/ipropd_svc.c`
`cmd/krb5/kproplog/kproplog.c`
`cmd/krb5/slave/kpropd_rpc.c`
`lib/gss_mechs/mech_krb5/et/kdb5_err.c`
`lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h`
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`lib/krb5/kadm5/kadm_host_srv_names.c`
`lib/krb5/kdb/kdb_convert.c`
`lib/krb5/kdb/kdb_hdr.h`
`lib/krb5/kdb/kdb_log.c`
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/uts/gssapi/include/gssapi_err_generic.h
lib/uts/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
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  jar/org/jboss/ws/api/configuration/ClientConfigUtil.java
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
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* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1.jar/org/jboss/ws/api/monitoring/RecordProcessorFactory.java
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1.jar/org/jboss/ws/api/addressing/MAPBuilderFactory.java
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1.jar/org/jboss/ws/api/util/DOMUtils.java

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* transport guarantees. A value of INTEGRAL means that the application
* requires that the data sent between the client and server be sent in
* such a way that it can't be changed in transit. CONFIDENTIAL means
* that the application requires that the data be transmitted in a
* fashion that prevents other entities from observing the contents of
* the transmission. In most cases, the presence of the INTEGRAL or
* CONFIDENTIAL flag will indicate that the use of SSL is required.
* 
* @see TransportGuarantee
* 
* @return string
* */

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  jar/org/jboss/ws/api/monitoring/RecordProcessor.java
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
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  jar/org/jboss/ws/api/util/package.html
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
  jar/org/jboss/ws/api/annotation/package.html
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
  jar/org/jboss/ws/api/binding/package.html
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
  jar/org/jboss/ws/api/monitoring/package.html
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  jar/org/jboss/ws/api/addressing/package.html
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  jar/org/jboss/ws/api/Messages.java
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
  jar/org/jboss/ws/api/Log.java

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  jar/org/jboss/ws/api/handler/GenericSOAPHandler.java
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* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
  jar/org/jboss/ws/api/tools/WSContractConsumer.java
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
  jar/org/jboss/ws/api/tools/WSContractProvider.java
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
  jar/org/jboss/ws/api/annotation/AuthMethod.java
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
  jar/org/jboss/ws/api/addressing/MAPEndpoint.java
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  jar/org/jboss/ws/api/addressing/MAPConstants.java
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  jar/org/jboss/ws/api/addressing/MAP.java
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  jar/org/jboss/ws/api/addressing/MAPBuilder.java
* /opt/cola/permits/1110675671_1654022910.38969/0/jbossws-api-1-1-1-final-sources-1-
  jar/org/jboss/ws/api/monitoring/RecordFilter.java
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  jar/org/jboss/ws/api/configuration/AbstractClientFeature.java
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* @author <a href="mailto:ropalka@redhat.com">Richard Opalka</a>
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jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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  jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
  jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
  jar/org/springframework/remoting/RemoteAccessException.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
  jar/org/springframework/validation/DirectFieldBindingResult.java

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/**
* Indicates that a component is only eligible for registration when all
* [@linkplain #value() specified conditions] match.
* 
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see [@link Condition] for details).
* 
* <p>The [@code @Conditional] annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* [@code @Component], including [@link Configuration @Configuration] classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any [@link Bean @Bean] method</li>
* </ul>
*/

*
If a `@Configuration` class is marked with `@Conditional`, all of the `@Bean` methods and `@link Import @Import` annotations associated with that class will be subject to the conditions.

NOTE: `@Conditional` annotations are not inherited; any conditions from superclasses or from overridden methods are not being considered.

* @author Phillip Webb
* @since 4.0
* @see Condition
*/

Found in path(s):
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/context/annotation/Conditional.java

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* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedOperation.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/context/ApplicationEventPublisher.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java

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* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/annotation/Role.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/validation/annotation/Validated.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/cache/interceptor/LazyParamAwareEvaluationContext.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/jndi/JndiPropertySource.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/EnvironmentAware.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/MessageSourceAware.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/stereotype/Service.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/annotation/EmbeddedValueResolverAware.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/EnvironmentAware.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/MessageSourceAware.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
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* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
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* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/annotation/EmbeddedValueResolverAware.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
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* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossClassLoaderAdapter.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/stereotype/Service.java
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* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/org/springframework/context/ApplicationEventPublisherAware.java
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* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4.0.2-release-sources-1-jar/
jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
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* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
jar/org/springframework/context/annotation/AdviceMode.java
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jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
jar/org/springframework/context/ApplicationContextInitializer.java
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jar/org/springframework/context/support/SimpleCacheManager.java
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 * /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jmx/export/naming/KeyNamingStrategy.java
 * /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jndi/JndiTemplate.java
 * /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jndi/JndiCallback.java
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 * /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
jar/org/springframework/remoting/rmi/RmiInvocationWrapper.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/scripting/config/ScriptingDefaultsParser.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jmx/export/notification/NotificationPublisher.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jmx/export/MBeanExportException.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/context/support/MessageSourceSupport.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/context/WeavingStatelessSessionBeanDefinitionParser.java
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* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/annotation/CachingConfigurationSelector.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/remoting/rmi/RmiBasedExporter.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /opt/cola/permits/110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
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{@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
reference through WebSphere's proprietary {@code AdminServiceFactory} API,
available on WebSphere 5.1 and higher.

<Exposes the {@code MBeanServer} for bean references.
This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
which uses standard JMX 1.2 API to access the platform's MBeanServer.


@since 2.0.3

@see javax.management.MBeanServer
@see MBeanServerFactoryBean

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jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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  jar/org/springframework/context/annotation/ConditionEvaluator.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
  jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
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  jar/org/springframework/context/annotation/ConfigurationCondition.java
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  jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
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  jar/org/springframework/format/support/DefaultFormattingConversionService.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
  jar/org/springframework/cache/interceptor/CachePutOperation.java
* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1-
  jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java

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* /opt/cola/permits/1110677017_1606843274.93/0/spring-context-4-0-2-release-sources-1.jar/org/springframework/context/i18n/LocaleContext.java
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2.1.6.RELEASE

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* /opt/cola/permits/1001159797_1646171615.2/0/java-sizeof-0-0-5-sources-jar/com/carrotsearch/sizeof/RamUsageEstimator.java

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* ReplicatedDriver. It supports both isValid and ping methods on the
* connection object.
* *
* ‹p›Please note that the isValid method requires java 6 classes to be present.
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* /opt/cola/permits/1091709914_1654022959.6642435/0/jdbc-local-1-4-11-final-sources-jar/org/jboss/jca/adapters/jdbc/jdk8/WrappedResultSetJDK8.java

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1.2236 asm 5.0.4

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*/
/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 * @param mv
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>null</code> for none).
 * @param access
 * the method's access flags (see [link Opcodes]). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [link Type]).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * [link Type#getInternalName() getInternalName]). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 */
* If a subclass calls this constructor.
*/

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 */
/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
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 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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 */
/**
 * Constructs a new [ @link LocalVariableAnnotationNode\]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [ @link #LocalVariableAnnotationNode\(int, TypePath, LabelNode[], LabelNode[], int[], String\)\]
 * version.
 * @param typeRef
a reference to the annotated type. See {@link TypeReference}.
* @param typePath
  the path to the annotated type argument, wildcard bound, array
  element type, or static inner type within 'typeRef'. May be
  &lt;tt>null&lt;/tt&gt; if the annotation targets 'typeRef' as a whole.
* @param start
  the fist instructions corresponding to the continuous ranges
  that make the scope of this local variable (inclusive).
* @param end
  the last instructions corresponding to the continuous ranges
  that make the scope of this local variable (exclusive). This
  array must have the same size as the 'start' array.
* @param index
  the local variable's index in each range. This array must have
  the same size as the 'start' array.
* @param desc
  the class descriptor of the annotation class.
*/

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*
/**
 * Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
 * version.
 *
 * @param owner
 * the owner's class name.
 *
 * @param access
 * the method's access flags (see [@link Opcodes]).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see [@link Type Type]).
 *
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

**
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*/
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
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 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

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Creates a new GeneratorAdapter. Subclasses must not use this constructor. Instead, they must use the GeneratorAdapter(int, MethodVisitor, int, String, String) version.

@throws IllegalStateException If a subclass calls this constructor.

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

-----
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
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The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eo0Nd2oN59WZVitJExGjjuVkgCfaKji
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Point of Contact:
Full name: Gordon King
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Positions: Chief Operational Officer
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Name                     Date added
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Found in path(s):
* /opt/cola/permits/1001477334_1646171664.71/0/maven-plugin-api-2.0-sources-jar/org/apache/maven/plugin/MojoFailureException.java
* /opt/cola/permits/1001477334_1646171664.71/0/maven-plugin-api-2.0-sources-jar/org/apache/maven/plugin/logging/Log.java

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=head1 NAME

Error - Error/exception handling in an OO-ish way

=head1 WARNING

Using the "Error" module is B<no longer recommended> due to the black-magical
nature of its syntactic sugar, which often tends to break. Its maintainers
have stopped actively writing code that uses it, and discourage people
from doing so. See the "SEE ALSO" section below for better recommendations.

=head1 SYNOPSIS

use Error qw(:try);

throw Error::Simple( "A simple error");

sub xyz {
  ...
  record Error::Simple("A simple error")
  and return;
}

unlink($file) or throw Error::Simple("$file: $!",$!);
	ry {
  do_some_stuff();
  die "error!" if $condition;
  throw Error::Simple "Oops!" if $other_condition;
  }
  catch Error::IO with {
    my $E = shift;
    print STDERR "File ", $E->{'-file'}, " had a problem\n";
  }
  except {

my $E = shift;
my $general_handler = sub { send_message $E->{-description} };
return {
   UserException1 => $general_handler,
   UserException2 => $general_handler
};
otherwise {
   print STDERR "Well I don't know what to say\n";
}
finally {
   close_the_garage_door_already(); # Should be reliable
}; # Don't forget the trailing ; or you might be surprised

=head1 DESCRIPTION

The C<Error> package provides two interfaces. Firstly C<Error> provides a procedural interface to exception handling. Secondly C<Error> is a base class for errors/exceptions that can either be thrown, for subsequent catch, or can simply be recorded.

Errors in the class C<Error> should not be thrown directly, but the user should throw errors from a sub-class of C<Error>.

=head1 PROCEDURAL INTERFACE

C<Error> exports subroutines to perform exception handling. These will be exported if the C<:try> tag is used in the C<use> line.

=over 4

=item try BLOCK CLAUSES

C<try> is the main subroutine called by the user. All other subroutines exported are clauses to the try subroutine.

The BLOCK will be evaluated and, if no error is throw, try will return the result of the block.

C<CLAUSES> are the subroutines below, which describe what to do in the event of an error being thrown within BLOCK.

=item catch CLASS with BLOCK

This clauses will cause all errors that satisfy C<err-E<gt>isa(CLASS)> to be caught and handled by evaluating C<BLOCK>.

C<BLOCK> will be passed two arguments. The first will be the error
being thrown. The second is a reference to a scalar variable. If this variable is set by the catch block then, on return from the catch block, try will continue processing as if the catch block was never found. The error will also be available in C<$@>.

To propagate the error the catch block may call C<$err-E<gt>throw>

If the scalar reference by the second argument is not set, and the error is not thrown. Then the current try block will return with the result from the catch block.

=item except BLOCK

When C<try> is looking for a handler, if an except clause is found C<BLOCK> is evaluated. The return value from this block should be a HASHREF or a list of key-value pairs, where the keys are class names and the values are CODE references for the handler of errors of that type.

=item otherwise BLOCK

Catch any error by executing the code in C<BLOCK>

When evaluated C<BLOCK> will be passed one argument, which will be the error being processed. The error will also be available in C<$@>.

Only one otherwise block may be specified per try block

=item finally BLOCK

Execute the code in C<BLOCK> either after the code in the try block has successfully completed, or if the try block throws an error then C<BLOCK> will be executed after the handler has completed.

If the handler throws an error then the error will be caught, the finally block will be executed and the error will be re-thrown.

Only one finally block may be specified per try block

=back

=head1 COMPATIBILITY

L<Moose> exports a keyword called C<with> which clashes with Error's. This example returns a prototype mismatch error:

    package MyTest;
use warnings;
use Moose;
use Error qw(:try);

(Thanks to C<maik.hentsche@amd.com> for the report.).

=head1 CLASS INTERFACE

=head2 CONSTRUCTORS

The C<Error> object is implemented as a HASH. This HASH is initialized with the arguments that are passed to it's constructor. The elements that are used by, or are retrievable by the C<Error> class are listed below, other classes may add to these.

-file
-line
-text
-value
-object

If C<-file> or C<-line> are not specified in the constructor arguments then these will be initialized with the file name and line number where the constructor was called from.

If the error is associated with an object then the object should be passed as the C<-object> argument. This will allow the C<Error> package to associate the error with the object.

The C<Error> package remembers the last error created, and also the last error associated with a package. This could either be the last error created by a sub in that package, or the last error which passed an object blessed into that package as the C<-object> argument.

=over 4
=item Error->new()

See the Error::Simple documentation.

=item throw ( [ ARG$ ] )

Create a new C<Error> object and throw an error, which will be caught by a surrounding C<try> block, if there is one. Otherwise it will cause the program to exit.

C<throw> may also be called on an existing error to re-throw it.
Create a new C<Error> object and returns it. This is defined for syntactic sugar, eg

die with Some::Error ( ... );

Create a new C<Error> object and returns it. This is defined for syntactic sugar, eg

record Some::Error ( ... )
and return;

STATIC METHODS

Return the last error created, or the last error associated with C<PACKAGE>

Flush the last error created, or the last error associated with C<PACKAGE>. It is necessary to clear the error stack before exiting the package or uncaught errors generated using C<record> will be reported.

$Error->flush;

OBJECT METHODS

If the variable C<$Error::Debug> was non-zero when the error was created, then C<stacktrace> returns a string created by calling C<Carp::longmess>. If the variable was zero the C<stacktrace> returns the text of the error appended with the filename and line number of
where the error was created, providing the text does not end with a newline.

=item object

The object this error was associated with

=item file

The file where the constructor of this error was called from

=item line

The line where the constructor of this error was called from

=item text

The text of the error

=item $err->associate($obj)

Associates an error with an object to allow error propagation. I.e:

$ber->encode(...) or
return Error->prior($ber)->associate($ldap);

=back

=head2 OVERLOAD METHODS

=over 4

=item stringify

A method that converts the object into a string. This method may simply return the same as the C<text> method, or it may append more information. For example the file name and line number.

By default this method returns the C<-text> argument that was passed to the constructor, or the string C"Died" if none was given.

=item value

A method that will return a value that can be associated with the error. For example if an error was created due to the failure of a system call, then this may return the numeric value of C<$!> at the time.
By default this method returns the $C<-value>$ argument that was passed to the constructor.

=head1 PRE-DEFINED ERROR CLASSES

=head2 Error::Simple

This class can be used to hold simple error strings and values. It's constructor takes two arguments. The first is a text value, the second is a numeric value. These values are what will be returned by the overload methods.

If the text value ends with $C<at file line 1>$ as $@$ strings do, then this information will be used to set the $C<-file>$ and $C<-line>$ arguments of the error object.

This class is used internally if an eval'd block die's with an error that is a plain string. (Unless $C<$Error::ObjectifyCallback> is modified)

=head1 $Error::ObjectifyCallback

This variable holds a reference to a subroutine that converts errors that are plain strings to objects. It is used by Error.pm to convert textual errors to objects, and can be overridden by the user.

It accepts a single argument which is a hash reference to named parameters. Currently the only named parameter passed is $C<'text'> which is the text of the error, but others may be available in the future.

For example the following code will cause Error.pm to throw objects of the class MyError::Bar by default:

```perl
sub throw_MyError_Bar
{
    my $args = shift;
    my $err = MyError::Bar->new();
    $err->{'MyBarText'} = $args->{'text'};
    return $err;
}

local $Error::ObjectifyCallback = \&throw_MyError_Bar;

# Error handling here.
```
MESSAGE HANDLERS

C＜Error＞ also provides handlers to extend the output of the C＜warn()＞ perl
function, and to handle the printing of a thrown C＜Error＞ that is not caught
or otherwise handled. These are not installed by default, but are requested
using the C＜:warndie＞ tag in the C＜use＞ line.

use Error qw( :warndie );

These new error handlers are installed in C＜$SIG{__WARN__}＞ and
C＜$SIG{__DIE__}＞. If these handlers are already defined when the tag is
imported, the old values are stored, and used during the new code. Thus, to
arrange for custom handling of warnings and errors, you will need to perform
something like the following:

BEGIN {
    $SIG{__WARN__} = sub {
        print STDERR "My special warning handler: $_[0]"
    };
}

use Error qw( :warndie );

Note that setting C＜$SIG{__WARN__}＞ after the C＜:warndie＞ tag has been
imported will overwrite the handler that C＜Error＞ provides. If this cannot be
avoided, then the tag can be explicitly C＜import＞ed later

use Error;

$SIG{__WARN__} = ...;

import Error qw( :warndie );

EXAMPLE

The C＜__DIE__＞ handler turns messages such as

Can't call method "foo" on an undefined value at examples/warndie.pl line 16.

into

Unhandled perl error caught at toplevel:

Can't call method "foo" on an undefined value
Thrown from: examples/warndie.pl:16

Full stack trace:

    main::inner('undef') called at examples/warndie.pl line 20
    main::outer('undef') called at examples/warndie.pl line 23

=cut

=head1 SEE ALSO

See L<Exception::Class> for a different module providing Object-Oriented exception handling, along with a convenient syntax for declaring hierarchies for them. It doesn't provide Error's syntactic sugar of C<try { ... }>, C<catch { ... }>, etc. which may be a good thing or a bad thing based on what you want. (Because Error's syntactic sugar tends to break.)

L<Error::Exception> aims to combine L<Error> and L<Exception::Class> "with correct stringification".

L<TryCatch> and L<Try::Tiny> are similar in concept to Error.pm only providing a syntax that hopefully breaks less.

=head1 KNOWN BUGS

None, but that does not mean there are not any.

=head1 AUTHORS

Graham Barr <gbarr@pobox.com>

The code that inspired me to write this was originally written by Peter Seibel <peter@weblogic.com> and adapted by Jesse Glick <jglick@sig.bsh.com>.

C<:warndie> handlers added by Paul Evans <leonderd@leonderd.org.uk>

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=head1 PAST MAINTAINERS

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* /opt/cola/permits/1000848957_1646171525.6/0/perl-Error-0.17020-2.el7.src.rpm-cosi-expand-archive-3SOZ6Uuf/Error-0.17020.tar.gz-cosi-expand-archive-6yTE9g5R/Error-0.17020/lib/Error.pm
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---

abstract: 'Error/exception handling in an OO-ish way'
author:
  - 'Shlomi Fish ( http://www.shlomifish.org/ )'
build_requires: {}
configure_requires:
  Module::Build: 0.39
dynamic_config: 1
generated_by: 'Module::Build version 0.3901, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Error
provides:
  Error:
    file: lib/Error.pm
    version: 0.17020
  Error::Simple:
    file: lib/Error.pm
    version: 0.17020
  Error::WarnDie:
    file: lib/Error.pm
    version: 0
  Error::subs:
    file: lib/Error.pm
    version: 0
requires:
  Scalar::Util: 0
  perl: v5.6.0
  warnings: 0
resources:
  license: http://dev.perl.org/licenses/
  version: 0.17020

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1.2252 aop-alliance 2.5.0

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1.2253 wildfly-platform-mbean 6.0.2.Final

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  jar/org/jboss/as/platform/mbean/MemoryManagerResourceDefinition.java
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  jar/org/jboss/as/platform/mbean/ThreadResourceDefinition.java
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  jar/org/jboss/as/platform/mbean/RuntimeResourceDefinition.java
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  jar/org/jboss/as/platform/mbean/MemoryResourceDefinition.java
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  jar/org/jboss/as/platform/mbean/BufferPoolRootResourceDefinition.java
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1.2254 xom 1.2.10

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1.2255 doxia-sink-api 1.0-alpha-4

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1.2257 log4j-api 2.12.1

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1.2265 xnio-nio 3.4.0.Final

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#
#
# This module defines the NIO XNIO provider
org.xnio.nio.NioXnioProvider

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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnSingleTypeReference.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/PostfixExpression.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionNodeDetector.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/search/IndexQueryRequestor.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/QualifiedTypeDeclarationPattern.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/MultiTypeDeclarationPattern.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/ClasspathVariableInitializer.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/IPackageDeclaration.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ISourceElementRequestor.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/IVariableBinding.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/JavaModelCache.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/ArrayAccess.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/IVariableBinding.java
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*/opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/ui/swing/SwingTreeViewNodeFactory.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/bcel/BcelAdvice.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/core/util/CompilationUnitSorter.java

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* /opt/cola/permits/1001073847_1654022816.4394908/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/util/StackMapTableAttribute.java
* /opt/cola/permits/1001073847_1654022816.4394908/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/AspectDeclaration.java
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* /opt/cola/permits/1001073847_1654022816.4394908/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/VariableDeclarationStatement.java
* /opt/cola/permits/1001073847_1654022816.4394908/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ImportConflictBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/ImportDeclaration.java
* /opt/cola/permits/1001073847_1654022816.4394908/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/SearchableEnvironmentRequestor.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectjorg/eclipse/jdt/core/dom/DeclareParentsDeclaration.java

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   * Contributors:
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   * David Knibb weaving context enhancements
*/

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 * Matthew Webster, Adrian Colyer,
 * *******************************************************************/
* Martin Lippert initial implementation

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*   Copied from bits of original CFlowStack

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*   Andy Clement Extensions for better IDE representation

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Found in path(s):
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/asm/internal/ProgramElement.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/asm/internal/Relationship.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/asm/internal/AspectJElementHierarchy.java

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Found in path(s):
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/CompletionContext.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/BindingKey.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnBrankStatementLabel.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/ScannerHelper.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/IClasspathAttribute.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/JavadocConstants.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compile/parser/ScannerHelper.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ClassFilePool.java

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* IBM Corporation - initial API and implementation
* IBM Corporation - added the following constants
* NonStaticAccessToStaticField
* NonStaticAccessToStaticMethod
* Task
* ExpressionShouldBeAVariable
* AssignmentHasNoEffect
* IBM Corporation - added the following constants
* TooManySyntheticArgumentSlots
* TooManyArrayDimensions
* TooManyBytesForStringConstant
* TooManyMethods
* TooManyFields
* NonBlankFinalLocalAssignment

Found in path(s):
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/MarkerAnnotation.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/util/BindingKeyResolver.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/StackMapFrame.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/WildcardBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ParameterizedTypeBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/util/BindingKeyParser.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/util/KeyToSignature.java

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* ObjectCannotHaveSuperTypes
* MissingSemiColon
* InvalidParenthesizedExpression
* EnclosingInstanceInConstructorCall
* BytecodeExceeds64KLimitForConstructor
* IncompatibleReturnTypeForNonInheritedInterfaceMethod
* UnusedPrivateMethod
* UnusedPrivateConstructor
* UnusedPrivateType
* UnusedPrivateField
* IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
* InvalidExplicitConstructorCall
* IBM Corporation - added the following constants
* PossibleAccidentalBooleanAssignment
* SuperfluousSemicolon
* IndirectAccessToStaticField
* IndirectAccessToStaticMethod
* IndirectAccessToStaticType
* BooleanMethodThrowingException
* UnnecessaryCast
* UnnecessaryArgumentCast
* UnnecessaryInstanceof
* FinallyMustCompleteNormally
* UnusedMethodDeclaredThrownException
* UnusedConstructorDeclaredThrownException
* InvalidCatchBlockSequence
* UnqualifiedFieldAccess
* IBM Corporation - added the following constants
* Javadoc
* JavadocUnexpectedTag
* JavadocMissingParamTag
* JavadocMissingParamName
* JavadocDuplicateParamName
* JavadocInvalidParamName
* JavadocMissingReturnTag
* JavadocDuplicateReturnTag
* JavadocMissingThrowsTag
* JavadocMissingThrowsClassName
* JavadocInvalidThrowsClass
* JavadocDuplicateThrowsClassName
* JavadocInvalidThrowsClassName
* JavadocMissingSeeReference
* JavadocInvalidSeeReference
* JavadocInvalidSeeHref
* JavadocInvalidSeeArgs
* JavadocMissing
* JavadocInvalidTag
* JavadocMessagePrefix
* EmptyControlFlowStatement
* IBM Corporation - added the following constants
* IllegalUsageOfQualifiedTypeReference
* InvalidDigit
* IBM Corporation - added the following constants
* ParameterAssignment
* FallthroughCase
* IBM Corporation - added the following constants
* UnusedLabel
* UnnecessaryNLSTag
* LocalVariableMayBeNull
* EnumConstantsCannotBeSurroundedByParenthesis
* JavadocMissingIdentifier
* JavadocNonStaticTypeFromStaticInvocation
* RawTypeReference
* NoAdditionalBoundAfterTypeInvocation
* UnsafeGenericArrayForVarargs
* IllegalAccessFromTypeVariable
* AnnotationValueMustBeArrayInitializer
* InvalidEncoding
* CannotReadSource
* EnumStaticFieldInInInitializerContext
* ExternalProblemNotFixable
* ExternalProblemFixable
* IBM Corporation - added the following constants
* AnnotationValueMustBeAnEnumConstant
* OverridingMethodWithoutSuperInvocation
* MethodMustOverrideOrImplement
* TypeHidingTypeParameterFromType
* TypeHidingTypeParameterFromMethod
* TypeHidingType
* IBM Corporation - added the following constants
* NullLocalVariableReference
* PotentialNullLocalVariableReference
* RedundantNullCheckOnNullLocalVariable
* NullLocalVariableComparisonYieldsFalse
* RedundantLocalVariableNullAssignment
* NullLocalVariableInstanceofYieldsFalse
* RedundantNullCheckOnNonNullLocalVariable
* NonNullLocalVariableComparisonYieldsFalse
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspektj/org/eclipse/jdt/core/compiler/IProblem.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/bcel/asm/StackMapAdder.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/bcel/asm/AsmDetector.java

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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/bcel/FakeAnnotation.java

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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/tools/ant/taskdefs/Ajc11CompilerAdapter.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/runtime/internal/cflowstack/EnclosingMethod.java
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 * Alexandre Vasseur perClause support for @AJ aspects
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/bcel/BcelWorld.java
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 */
null
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  jar/org/aspectj/util/UtilClassLoader.java
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*   Helen Hawkins Converted to new interface (bug 148190)

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  jar/org/aspectj/ajde/ui/swing/TreeViewBuildConfigEditor.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/StructureTreeManager.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/StructureTree.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/DefaultBuildProgressMonitor.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/SwingTreeViewNodeRenderer.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/GoToLineThread.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/BuildProgressPanel.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/SimpleStructureViewToolPanel.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/OptionsFrame.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/AJButtonMenuCombo.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/BuildConfigPopupMenu.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/CompilerMessagesCellRenderer.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/BrowserViewTreeListener.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
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  * IBM Corporation - added the following constants:
  * COMPILER_PB_DEPRECIATION_IN_DEPRECATED_CODE
  * COMPILER_PB_STATIC_ACCESS_RECEIVER
  * COMPILER_TASK_TAGS
  * CORE_CIRCULAR_CLASSPATH
  * CORE_INCOMPLETE_CLASSPATH
  * IBM Corporation - added run(IWorkspaceRunnable, IProgressMonitor)
  * IBM Corporation - added exclusion patterns to source classpath entries
  * IBM Corporation - added specific output location to source classpath entries
  * IBM Corporation - added the following constants:
  * CORE_JAVA_BUILD_CLEAN_OUTPUT_FOLDER
  * CORE_JAVA_BUILD_RECREATE_MODIFIED_CLASS_FILES_IN_OUTPUT_FOLDER
  * CLEAN
  * IBM Corporation - added getClasspathContainerInitializer(String)
  * IBM Corporation - added the following constants:
  * CODEASSIST_ARGUMENT_PREFIXES
  * CODEASSIST_ARGUMENT_SUFFIXES
  * CODEASSIST_FIELD_PREFIXES
  * CODEASSIST_FIELD_SUFFIXES
  * CODEASSIST_LOCAL_PREFIXES
  * CODEASSIST_LOCAL_SUFFIXES
  * CODEASSIST_STATIC_FIELD_PREFIXES
  * CODEASSIST_STATIC_FIELD_SUFFIXES
  * COMPILER_PB_CHAR_ARRAY_IN_STRING_CONCATENATION
  * IBM Corporation - added the following constants:
* COMPILER_PB_LOCAL_VARIABLE_HIDING
* COMPILER_PB_SPECIAL_PARAMETER_HIDING_FIELD
* COMPILER_PB_FIELD_HIDING
* COMPILER_PB_POSSIBLE_ACCIDENTAL_BOOLEAN_ASSIGNMENT
* CORE_INCOMPATIBLE_JDK_LEVEL
* VERSION_1_5
* COMPILER_PB_EMPTY_STATEMENT
* IBM Corporation - added the following constants:
  * COMPILER_PB_INDIRECT_STATIC_ACCESS
  * COMPILER_PB_BOOLEAN_METHOD_THROWING_EXCEPTION
  * COMPILER_PB_UNNECESSARY_CAST
* IBM Corporation - added the following constants:
  * COMPILER_PB_INVALID_JAVADOC
  * COMPILER_PB_INVALID_JAVADOC_TAGS
  * COMPILER_PB_INVALID_JAVADOC_TAGS_VISIBILITY
  * COMPILER_PB_MISSING_JAVADOC_TAGS
  * COMPILER_PB_MISSING_JAVADOC_TAGS_VISIBILITY
  * COMPILER_PB_MISSING_JAVADOC_TAGS_OVERRIDING
  * COMPILER_PB_MISSING_JAVADOC_COMMENTS
  * COMPILER_PB_MISSING_JAVADOC_COMMENTS_VISIBILITY
  * COMPILER_PB_MISSING_JAVADOC_COMMENTS_OVERRIDING
  * COMPILER_PB_DEPRECAITION_WHEN_OVERRIDING_DEPRECATED_METHOD
* COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_WHEN_OVERRIDING
* IBM Corporation - added the following constants:
  * TIMEOUT_FOR_PARAMETER_NAME_FROM_ATTACHED_JAVADOC
* IBM Corporation - added the following constants:
  * COMPILER_PB_FALLTHROUGH_CASE
  * COMPILER_PB_PARAMETER_ASSIGNMENT
  * COMPILER_PB_NULL_REFERENCE
* IBM Corporation - added the following constants:
  * CODEASSIST_DEPRECAITION_CHECK
* IBM Corporation - added the following constants:
  * COMPILER_PB_POTENTIAL_NULL_REFERENCE
  * COMPILER_PB_REDUNDANT_NULL_CHECK
* IBM Corporation - added the following constants:
  * COMPILER_PB_UNUSED_PARAMETER_INCLUDE_DOC_COMMENT_REFERENCE

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* BEA - Patch for bug 172743
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* Andy Clement - extracted from AnnotationTypePattern 
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
jar/org/aspectj/weaver/patterns/AnyAnnotationTypePattern.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ReferenceBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/BinaryTypeBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/AbstractMethodDeclaration.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/LookupEnvironment.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/FieldReference.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ClassScope.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Clinit.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/MethodBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/QualifiedNameReference.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/TypeDeclaration.java

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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/weaver/reflect/IReflectionWorld.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/eclipse/jdt/core/dom/ASTRecoveryPropagator.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/eclipse/jdt/core/formatter/IndentManipulation.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/eclipse/jdt/internal/compiler/parsletRecoveryScanner.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/eclipse/jdt/internal/compiler/parsletRecoveryScanner.java
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 * Linton Ye https://bugs.eclipse.org/bugs/show_bug.cgi?id=193065
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/CustomMungerFactory.java
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 * Andy Clement 6Jul05 generics - signature attribute
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/core/dom/RecoveredVariableBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/core/CompletionFlags.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/core/dom/RecoveredTypeBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/internal/compiler/lookup/BinaryLocalVariableBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/core/dom/NullBuffer.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/internal/codeassist/ThrownExceptionFinder.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/core/dom/RecoveredVariableBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/core/CompletionFlags.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/core/dom/RecoveredTypeBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/internal/compiler/lookup/BinaryLocalVariableBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/core/dom/NullBuffer.java

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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/reflect/JoinPointMatchImpl.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/internal/tools/MatchingContextBasedTest.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/HasMemberTypePatternFinder.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/TypeVariable.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/tools/ShadowMatch.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajdt/internal/compiler/ast/AtAspectJAnnotationFactory.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
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* tyeung@bea.com - initial API and implementation
* IBM Corporation - changed interface to extend IBinding
* IBM Corporation - renamed from IResolvedMemberValuePair to IMemberValuePairBinding
*******************************************************************************

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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/core/dom/IMemberValuePairBinding.java
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* Erling Ellingsen - patch for bug 125570
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/eclipse/jdt/internal/compiler/lookup/CompilationUnitScope.java
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jar/org/aspectj/ajde/ui/internal/NavigationHistoryModel.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/bridge/IMessageHolder.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/internal/BuildConfigListener.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/ui/StructureView.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/bridge/SourceLocation.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/bridge/AbortException.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/swing/AjdeWidgetStyles.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/runtime/reflect/AdviceSignatureImpl.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/runtime/reflect/InitializerSignatureImpl.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/runtime/reflect/MemberSignatureImpl.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/runtime/reflect/JoinPointImpl.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/ui/Internal/Conversions.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/ui/IStructureViewNode.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/ui/UserPreferencesAdapter.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/bridge/ICommand.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/runtime/internal/CFlowStack.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/ui/BuildConfigModel.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/bridge/MessageUtil.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/util/FileUtil.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/bridge/ReflectionFactory.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/runtime/reflect/JoinPointImpl.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/ui/AbstractIcon.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/ui/InvalidResourceException.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajde/ui/FileStructureView.java
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  jar/org/aspectj/bridge/IMessageHandler.java
* /opt/cola/permits/1001073847_1654022816.43949080/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/internal/LstBuildConfigFileParser.java
* /opt/cola/permits/1001073847_1654022816.43949080/aspectjtools-1-6-5-sources-
  jar/org/aspectj/runtime/internal/PerObjectMap.java
* /opt/cola/permits/1001073847_1654022816.43949080/aspectjtools-1-6-5-sources-
  jar/org/aspectj-lang/reflect/CodeSignature.java
* /opt/cola/permits/1001073847_1654022816.43949080/aspectjtools-1-6-5-sources-
  jar/org/aspectj/bridge/MessageWriter.java
* /opt/cola/permits/1001073847_1654022816.43949080/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/SwingTreeNode.java
* /opt/cola/permits/1001073847_1654022816.43949080/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/internal/TreeStructureViewBuilder.java
* /opt/cola/permits/1001073847_1654022816.43949080/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/StructureViewTreeListener.java
* /opt/cola/permits/1001073847_1654022816.43949080/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/StructureViewRenderer.java
* /opt/cola/permits/1001073847_1654022816.43949080/aspectjtools-1-6-5-sources-
  jar/org/aspectj/ajde/ui/swing/OptionsPanel.java

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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/ASTRequestor.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/ClasspathAttribute.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnMemberValueName.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/TypeParameterReferenceMatch.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/TypeParameterDeclarationMatch.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internalexial/codeassist/complete/CompletionOnStringLiteral.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/retry/TargetSourceRangeComputer.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internalexial/codeassist/complete/CompletionOnAnnotationMemberValuePair.java
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* Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196  
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/NewConstructorTypeMunger.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/bcel/BcelRenderer.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/MemberImpl.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/CallExpr.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/ExposedState.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajdt/internal/compiler/lookup/InterTypeScope.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/ITokenSource.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/bcel/BcelFieldRef.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/ConcreteTypeMunger.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/bcel/BcelClassWeaver.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/DeclareErrorOrWarning.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/ParserException.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/IHasSourceLocation.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/apache/bcel/classfile/LocalVariableTable.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/reflect/ReflectionFastMatchInfo.java
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* Tim Hanson (thanson@bea.com) - patch for https://bugs.eclipse.org/bugs/show_bug.cgi?id=126673
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* Mik Kersten revisions, added additional relationships
* Alexandre Vasseur support for @AJ style
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* IBM Corporation - renamed from ResolvedAnnotation to AnnotationBinding
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/ResolvedBinaryField.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/interna...
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* Adrian Colyer added constructor to populate javaOptions with default settings - 01.20.2003
* Bugzilla #29768, 29769

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  * variant of Aspects in the aspectj5rt project - this isn't Java5 - Andy Clement

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* - canUpdateClasspathContainer(IPath, IJavaProject)
* - requestClasspathContainerUpdate(IPath, IJavaProject, IClasspathContainer)
* IBM Corporation - allow initializers to provide a readable description
* of a container reference, ahead of actual resolution.
* - getDescription(IPath, IJavaProject)
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/ajdt/internal/compiler/ast/AddAtAspectJAnnotationsVisitor.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/bcel/BcelAccessForInlineMunger.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/loadtime/JRockitAgent.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/bridge/IMessageContext.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/tools/Jdk14TraceFactory.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/IMethod.java
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/tools/ajdoc/Config.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/tools/ajdoc/StubFileGenerator.java
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  jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ASTNode.java
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  jar/org/aspectj/asm/internal/RelationshipMap.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/asm/IElementHandleProvider.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/asm/HierarchyWalker.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/tools/ajdoc/CompilerWrapper.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/asm/IProgramElement.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/asm/IRelationship.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/tools/ajdoc/StructureUtil.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/asm/IIHierarchyListener.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/asm/IIHierarchy.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-
  jar/org/aspectj/asm/IIHierarchyMap.java
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* mkaufman@bea.com - initial API as ICompilationParticipant
* IBM - changed from interface ICompilationParticipant to abstract class CompilationParticipant
* IBM - rewrote spec
*
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/compiler/CompilationParticipant.java

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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/UserLibraryManager.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/eval/EvaluationContextWrapper.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/SubRoutineStatement.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ImportReference.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/AND_AND_Expression.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/SourceElementParser.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Argument.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Annotation.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ThrowStatement.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/core/InternalNamingConventions.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/PackageBinding.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/core/dom/NaiveASTFlattener.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/core/dom/SuperMethodInvocation.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/core/dom/TypeDeclaration.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/core/dom/NaiveASTFlattener.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources.jar/org/aspectj/org/eclipse/jdt/core/dom/TypeDeclaration.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaProjectElementInfo.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/util/Disassembler.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/SearchPattern.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/JsavadocSingleTypeReference.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/batch/ClasspathDirectory.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/matching/FieldPattern.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/IJavaElement.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/ASTVisitor.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/DefaultBindingResolver.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/PatternSearchJob.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/matching/FieldPattern.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/IJavaElementDelta.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/ASTRewriteAnalyzer.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/formatter/BinaryExpressionFragmentBuilder.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/SubTypeSearchJob.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/IJavaElement.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/rewrite/ASTRewriteAnalyzer.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/rewrite/ASTVisitor java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/SearchParticipant.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/MemberValuePair.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/Participant.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/ClassFileReader.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/SubTypeSearchJob.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/IJavaElementDelta.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/rewrite/ASTVisitor.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/search/SearchParticipant.java
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/MatchLocator.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/RenameElementsOperation.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/SelectionRequestor.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/dom/SimpleName.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/Compiler.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/MovePackageFragmentRootOperation.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/NameLookup.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Javadoc.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/util/Util.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/ToolFactory.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/core/hierarchy/RegionBasedHierarchyBuilder.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredType.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/core/DefaultWorkingCopyOwner.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/jdt/internal/compiler/parser/RecoveredElement.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/jdt/internal/index/DiskIndex.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/jdt/internal/compiler/ast/BreakStatement.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/jdt/core/ToolFactory.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/jdt/core/search/TypeNameRequestorWrapper.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/org/eclipse/jdt/jdt/internal/compiler/parser/RecoveredElement.java

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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/bcel/BcelAnnotation.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/AbstractAnnotationAJ.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/TemporaryTypeMunger.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/StandardAnnotation.java

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* Red Hat Incorporated - improvements based on comments from JDT developers
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* Helen Hawkins - initial version (bug 148190)
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* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/apache/bcel/classfile/annotation/SimpleElementValueGen.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/apache/bcel/classfile/annotation/ClassElementValueGen.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/apache/bcel/classfile/annotation/EnumElementValueGen.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/apache/bcel/classfile/annotation/AnnotationElementValueGen.java
* /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/apache/bcel/classfile/annotation/ArrayElementValueGen.java

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 * Contributors:
 * IBM Corporation - initial API and implementation
 * Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
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* Adrian Colyer, Andy Clement, overhaul for generics
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* Xerox/PARC initial implementation
* Alex Vasseur wired up for @AJ proceeding
* Andy Clement 23-06-06 added extras for @AJ
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  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/NotAnnotationTypePattern.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/ExactAnnotationTypePattern.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/AnnotationPatternList.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/AnnotationTypePattern.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/BindingPattern.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/BindingAnnotationTypePattern.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/ArgsAnnotationPointcut.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/WildAnnotationTypePattern.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/PointcutEvaluationExpenseComparator.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/internal/tools/TypePatternMatcherImpl.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/PointcutExpressionImpl.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/PointcutRewriter.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/PointcutExpression.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/WithinAnnotationPointcut.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/AndAnnotationTypePattern.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/AnnotatedElement.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/ThisOrTargetAnnotationPointcut.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/OrAnnotationTypePattern.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/patterns/AnnotationPointcut.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/tools/PointcutPrimitive.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/tools/StandardPointcutExpression.java
  * /opt/cola/permits/1001073847_1654022816.4394908/0/aspectjtools-1-6-5-sources-jar/org/aspectj/weaver/tools/TypePatternMatcher.java
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* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-
  jar/org/jboss/jca/core/rar/MessageListenerImpl.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-
  jar/org/jboss/jca/core/tx/jbossts/XATerminatorImpl.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-
  jar/org/jboss/jca/core/tx/jbossts/LocalConnectableXAResourceImpl.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-
  jar/org/jboss/jca/core/tx/jbossts/XAResourceWrapperImpl.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-
  jar/org/jboss/jca/core/tx/jbossts/LocalXAResourceStatImpl.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-
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* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1.jar/org/jboss/jca/core/connectionmanager/listener/SecurityActions.java

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jar/org/jboss/jca/core/workmanager/WorkClassLoader.java
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jar/org/jboss/jca/core/workmanager/selector/AbstractSelector.java
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package org.jboss.jca;

/**
 * The version class
 * @author <a href="mailto:jesper.pedersen@ironjacamar.org">Jesper Pedersen</a>
 */

public class Version
/** The project */
public static final String PROJECT = "WildFly/IronJacamar";

/** The version */
public static final String VERSION = "@VERSION@";

/** Full version */
public static final String FULL_VERSION = PROJECT + " " + VERSION;

/**
 * Constructor
 */
private Version()
{
}

/**
 * Main
 * @param args The arguments
 */
public static void main(String[] args)
{
    System.out.println(FULL_VERSION);
}

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* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/workmanager/transport/remote/socket/Communication.java  
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/security/DefaultSubjectFactory.java  
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/util/SecurityActions.java  

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* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/pool/AbstractPrefillPool.java  
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/pool/strategy/PoolBySubjectAndCri.java  
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/pool/strategy/PoolBySubjectAndCri.java  
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/pool/strategy/PoolBySubjectAndCri.java  
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1
jar/org/jboss/jca/core/connectionmanager/pool/api/PoolFactory.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/pool/strategy/CriKey.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/listener/ConnectionState.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/listener/TxConnectionListener.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/listener/NoTxConnectionListener.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/recovery/SecurityActions.java
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* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/listener/TxConnectionListener.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/listener/NoTxConnectionListener.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/pool/strategy/SubjectKey.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/pool/strategy/PoolByCri.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/pool/strategy/SubjectCriKey.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/pool/strategy/PoolBySubject.java
* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/connectionmanager/AbstractConnectionManager.java

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* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/bv/SerializableValidator.java
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* /opt/cola/permits/1110676526_1654022847.5725045/0/ironjacamar-core-impl-1-4-11-final-sources-1-jar/org/jboss/jca/core/bv/BeanValidation.java

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.2276 libjpeg 6b
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The Independent JPEG Group's JPEG software
==========================================
README for release 6b of 27-Mar-1998
==========================================

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and have a chance to participate in technical discussions, etc.
This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJK software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJK releases.

Other documentation files in the distribution are:

User documentation:
  install.doc How to configure and install the IJK software.
  usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
  *.1 Unix-style man pages for programs (same info as usage.doc).
  wizard.doc Advanced usage instructions for JPEG wizards only.
  change.log Version-to-version change highlights.

Programmer and internal documentation:
  libjpeg.doc How to use the JPEG library in your own programs.
  example.c Sample code for calling the JPEG library.
  structure.doc Overview of the JPEG library's internal structure.
  filelist.doc Road map of IJK files.
  coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========
This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

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REFERENCES
==========

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.)

In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.
The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2277 common-library 4.0.0.14931

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1.2281 gcab 0.7-4.el7_4
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Version 2.1, February 1999

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That's all there is to it!

1.2282 diffutils 3.3 5.el7
1.2282.1 Available under license:
/* diff - compare files line by line


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along with this program.  If not, see <http://www.gnu.org/licenses/>. */

#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS \
proper_name ("Paul Eggert"), \
proper_name ("Mike Haertel"), \
proper_name ("David Hayes"), \
proper_name ("Richard Stallman"), \
proper_name ("Len Tower")
```c
#ifndef GUTTER_WIDTH_MINIMUM
#define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list {
    char *regexps; /* chars representing disjunction of the regexps */
    size_t len; /* chars used in 'regexps' */
    size_t size; /* size malloc'ed for 'regexps'; 0 if not malloc'ed */
    bool multiple_regexps; /* Does 'regexps' represent a disjunction? */
    struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary). On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s). */
```
Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =
"0123456789abCcD:eEfFhiill:nNpQrRsStTuU:vwWXyZ";

/* Values for long options that do not have single-letter equivalents. */
enum
{
    BINARY_OPTION = CHAR_MAX + 1,
    FROM_FILE_OPTION,
    HELP_OPTION,
    HORIZON_LINES_OPTION,
    IGNORE_FILE_NAME_CASE_OPTION,
    INHIBIT_HUNK_MERGE_OPTION,
    LEFT_COLUMN_OPTION,
    LINE_FORMAT_OPTION,
    NO_DEREFERENCE_OPTION,
    NO_IGNORE_FILE_NAME_CASE_OPTION,
    NORMAL_OPTION,
    SDIFF_MERGE_ASSIST_OPTION,
    STRIP_TRAILING_CR_OPTION,
    SUPPRESS_BLANKEMPTY_OPTION,
    SUPPRESS_COMMON_LINES_OPTION,
    TABSIZE_OPTION,
    TO_FILE_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_LINE_FORMAT_OPTION,
    OLD_LINE_FORMAT_OPTION,
    NEW_LINE_FORMAT_OPTION,

    /* These options must be in sequence. */
    UNCHANGED_GROUP_FORMAT_OPTION,
    OLD_GROUP_FORMAT_OPTION,
    NEW_GROUP_FORMAT_OPTION,
    CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[] =
{
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[] =
{"--unchanged-line-format"} =
{
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format",
    "--changed-line-format"
};
static struct option const longopts[] =
{
    "--binary", 0, 0, BINARY_OPTION,
    "--brief", 0, 0, 'q',
    "--changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION,
    "--context", 2, 0, 'C',
    "--ed", 0, 0, 'e',
    "--exclude", 1, 0, 'x',
    "--exclude-from", 1, 0, 'X',
    "--expand-tabs", 0, 0, 't',
    "--forward-ed", 0, 0, 'T',
    "--from-file", 1, 0, FROM_FILE_OPTION,
    "--help", 0, 0, HELP_OPTION,
    "--horizon-lines", 1, 0, HORIZON_LINES_OPTION,
    "--ifdef", 1, 0, 'D',
    "--ignore-all-space", 0, 0, 'w',
    "--ignore-blank-lines", 0, 0, 'B',
    "--ignore-case", 0, 0, 'i',
    "--ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION,
    "--ignore-matching-lines", 1, 0, 'T',
    "--ignore-space-change", 0, 0, 'b',
    "--ignore-tab-expansion", 0, 0, 'E',
    "--ignore-trailing-space", 0, 0, 'Z',
    "--inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION,
    "--initial-tab", 0, 0, 'T',
    "--label", 1, 0, 'L',
    "--left-column", 0, 0, LEFT_COLUMN_OPTION,
    "--line-format", 1, 0, LINE_FORMAT_OPTION,
    "--minimal", 0, 0, 'd',
    "--new-file", 0, 0, 'N',
    "--new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION,
    "--new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION,
    "--no-dereference", 0, 0, NO_DEREFERENCE_OPTION,
    "--no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION,
    "--normal", 0, 0, NORMAL_OPTION,
    "--old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION,
    "--old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION,
    "--paginate", 0, 0, 'T',
    "--rcs", 0, 0, 'n',
    "--recursive", 0, 0, 'r',
    "--report-identical-files", 0, 0, 's',
    "--sdiff-merge-assist", 0, 0, SDIFF_MERGE_ASSIST_OPTION,
};


/* Return a string containing the command options with which diff was invoked.  
Spaces appear between what were separate ARGV-elements.  
There is a space at the beginning but none at the end.  
If there were no options, the result is an empty string. */

static char * 
option_list (char **optionvec, int count) 
{ 
  int i; 
  size_t size = 1; 
  char *result; 
  char *p;

  for (i = 0; i < count; i++) 
  { 
    size += 1 + shell_quote_length (optionvec[i]);
  }

  p = result = xmalloc (size);

  for (i = 0; i < count; i++) 
  { 
    size += 1 + shell_quote_length (optionvec[i]);
  }

  p = result = xmalloc (size);

  for (i = 0; i < count; i++) 
  { 
    *p++ = ' '; 
    p = shell_quote_copy (p, optionvec[i]);
  }

  *p = '\0';
return result;
}

/* Return an option value suitable for add_exclude. */

static int exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    int ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;

    /* Do our initializations. */
    exit_failure = EXIT_TROUBLE;
    initialize_main (&argc, &argv);
    set_program_name (argv[0]);
    setlocale (LC_ALL, "");
    bindtextdomain (PACKAGE, LOCALEDIR);
    textdomain (PACKAGE);
    c_stack_action (0);
    function_regexp_list.buf = &function_regexp;
    ignore_regexp_list.buf = &ignore_regexp;
    re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
    excluded = new_exclude ();

    /* Decode the options. */

    while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
    {
        switch (c)
        {
            case 0:
                /*
                 */
                break;
            case 0:
                /*
                 */
                break;
        }
    }
case '0':
case '1':
case '2':
case '3':
case '4':
case '5':
case '6':
case '7':
case '8':
case '9':
    if (! ISDIGIT (prev))
        ocontext = c - '0';
    else if (LIN_MAX / 10 < ocontext
             || ((ocontext = 10 * ocontext + c - '0') < 0))
        ocontext = LIN_MAX;
    break;

case 'a':
    text = true;
    break;

case 'b':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space = IGNORE_SPACE_CHANGE;
    break;

case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
    break;

case 'B':
    ignore_blank_lines = true;
    break;

case 'C':
case 'U':
{
    if (optarg)
{
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid context length ",&s", optarg);
    if (LIN_MAX < numval)
        numval = LIN_MAX;
}
else
  numval = 3;

specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
if (context < numval)
  context = numval;
explicit_context = true;
}
break;

case 'c':
specify_style (OUTPUT_CONTEXT);
if (context < 3)
  context = 3;
break;

case 'd':
  minimal = true;
break;

case 'D':
specify_style (OUTPUTIFDEF);
{
  static char const C_ifdef_group_formats[] =
    "%%=%c ifndef %s \n\n% %c ifndef %s \n\n% #ifdef %s
%%>#endif /* ! %s */
%c#ifdef %s
%%>#endif /* %s */
%c#ifndef %s
%%<#else /* %s */
%%>#endif /* %s */
";
  char *b = xmalloc (sizeof C_ifdef_group_formats
    + 7 * strlen (optarg) - 14 /* 7*"%s" */
    - 8 /* 5*"%c" + 3*"\n" */);
sprintf (b, C_ifdef_group_formats,
  optarg, optarg, 0,
  optarg, optarg, optarg);
  for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
    {
      specify_value (&group_format[i], b, "-D");
    }
  b += strlen (b) + 1;
}
break;

case 'e':
specify_style (OUTPUT_ED);
break;

case 'E':
if (ignore_white_space < IGNORE_SPACE_CHANGE)
ignore_white_space |= IGNORE_TAB_EXPANSION;
break;

case 'T':
specify_style (OUTPUT_FORWARD_ED);
break;

case 'F':
add_regexp (&function_regexp_list, optarg);
break;

case 'h':
/* Split the files into chunks for faster processing.
   Usually does not change the result.

   This currently has no effect. */
break;

case 'H':
speed_large_files = true;
break;

case 'i':
ignore_case = true;
break;

case 'L':
if (!file_label[0])
    file_label[0] = optarg;
else if (!file_label[1])
    file_label[1] = optarg;
else
    fatal ("too many file label options");
break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^\[:alpha:]$_\]");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;
case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
                AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
                         exclude_options (), 'u'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid width '%s'", optarg);
    if (width != numval)
    {
        if (width)
            fatal ("conflicting width options");
        width = numval;
    }
    break;

case BINARY_OPTION:
#if O_BINARY
    binary = true;
    if (! isatty (STDOUT_FILENO))
        set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif
    break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
    break;
case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtomax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length '%s'", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
       compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;
case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtol(max (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize \"%s\", optarg);
    if (tabsize != numval)
    {
        if (tabsize)
            fatal ("conflicting tabsize options");
    
    tabsize = numval;
    }
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;

default:
    try_help (NULL, NULL);
if (output_style == OUTPUT_UNSPECIFIED)
{
    if (show_c_function)
    {
        specify_style (OUTPUT_CONTEXT);
        if (ocontext < 0)
            context = 3;
    }
    else
        specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
#if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \ 
    || defined HAVE_STRUCT_STAT_ST_SPARE1)
    time_format = "%Y-%m-%d %H:%M:%S.%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
}
else
{
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
        || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
        || (ocontext < context && ! explicit_context)))
    context = ocontext;

if (! tabsize)
    tabsize = 8;
if (! width)
    width = 130;

/* Maximize first the half line width, and then the gutter width,
   according to the following constraints:

1. Two half lines plus a gutter must fit in a line.
2. If the half line width is nonzero:
   a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
   b. If tabs are not expanded to spaces,
      a half line plus a gutter is an integral number of tabs,
      so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
    intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
    sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
    sdiff_column2_offset = sdiff_half_width ? off : w;

    /* Make the horizon at least as large as the context, so that
       shift_boundaries has more freedom to shift the first and last hunks. */
    if (horizon_lines < context)
      horizon_lines = context;

    summarize-regexp-list (&function-regexp-list);
    summarize-regexp-list (&ignore-regexp-list);

    if (output_style == OUTPUT_IFDEF)
    {
      for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        if (!line_format[i])
          line_format[i] = "%l\n";
        if (!group_format[OLD])
          group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
        if (!group_format[NEW])
          group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
        if (!group_format[UNCHANGED])
          group_format[UNCHANGED] = "%= ";
        if (!group_format[CHANGED])
          group_format[CHANGED] = concat (group_format[OLD],
                                          group_format[NEW], "");
    }

    no_diff_means_no_output =
      (output_style == OUTPUT_IFDEF ?
       (*!group_format[UNCHANGED]
        || (STREQ (group_format[UNCHANGED], "%= ")
           && !*line_format[UNCHANGED]))
      : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

    files_can_be_treated_as_binary =
      (brief & binary
& ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
| (ignore_regexp_list.regexps || ignore_white_space));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
        fatal ("--from-file and --to-file both specified");
    else
        for (; optind < argc; optind++)
        {
            int status = compare_files (NULL, from_file, argv[optind]);
            if (exit_status < status)
                exit_status = status;
        }
    }
else
{
    if (to_file)
        for (; optind < argc; optind++)
        {
            int status = compare_files (NULL, argv[optind], to_file);
            if (exit_status < status)
                exit_status = status;
        }
    else
    {
        if (argc - optind != 2)
            {
            if (argc - optind < 2)
                try_help ("missing operand after '%s'", argv[argc - 1]);
            else
                try_help ("extra operand '%s'", argv[optind + 2]);
        }        
        exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
    }
}

/* Print any messages that were saved up for last. */
print_message_queue ();

check_stdout ();
exit (exit_status);
return exit_status;
}
/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
    {
        char *regexps = reglist->regexps;
        size_t len = reglist->len;
        bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
        size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
        size_t size = reglist->size;

        if (size <= newlen)
        {
            if (!size)
                size = 1;

            do size *= 2;
            while (size <= newlen);

            reglist->size = size;
            reglist->regexps = regexps = xrealloc (regexps, size);
        }
        if (multiple_regexps)
        {
            regexps[len++] = '\';
            regexps[len++] = '|';
        }
        memcpy (regexps + len, pattern, patlen + 1);
    }
}

/* Ensure that REGLIST represents the disjunction of its regexps.
 * This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
    if (reglist->regexps)
    {
        /* At least one regexp was specified. Allocate a fastmap for it. */
        reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
    }
}
if (reglist->multiple_regexps)
{
    /* Compile the disjunction of the regexps.
     * (If just one regexp was specified, it is already compiled.) */
    char const *m = re_compile_pattern(reglist->regexps, reglist->len,
                                       reglist->buf);
    if (m)
        error(EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
}
}

static void
try_help(char const *reasonmsgid, char const *operand)
{
    if (reasonmsgid)
        error(0, 0, _(reasonmsgid), operand);
    error(EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
          program_name);
    abort();
}

static void
check_stdout(void)
{
    if (ferror(stdout))
        fatal("write failed");
    else if (fclose(stdout) != 0)
        pfatal_with_name(_("standard output"));
}

static char const * const option_help_msgid[] = {
    N_("    --normal                  output a normal diff (the default)"),
    N_("    --brief                   report only when files differ"),
    N_("    --report-identical-files report when two files are the same"),
    N_("    --context[NUM]           output NUM (default 3) lines of copied context"),
    N_("    --unified[NUM]           output NUM (default 3) lines of unified context"),
    N_("    --ed                      output an ed script"),
    N_("    --rcs                     output an RCS format diff"),
    N_("    --side-by-side           output in two columns"),
    N_("    --width=NUM              output at most NUM (default 130) print columns"),
    N_("    --left-column            output only the left column of common lines"),
    N_("    --suppress-common-lines  do not output common lines"),

    N_("    --show-c-function       show which C function each change is in"),
    N_("    --show-function-line=RE show the most recent line matching RE"),
    N_("    --label LABEL           use LABEL instead of file name\n" "    (can be repeated)");
}
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N_("-t, --expand-tabs expand tabs to spaces in output"),
N_("-T, --initial-tab make tabs line up by prepending a tab"),
N_("-tabsize=NUM tab stops every NUM (default 8) print columns"),
N_("--suppress-blank-empty suppress space or tab before empty output lines"),
N_("-l, --paginate pass output through 'pr' to paginate it"),
N_("-r, --recursive recursively compare any subdirectories found"),
N_("--no-dereference don't follow symbolic links"),
N_("--new-file treat absent files as empty"),
N_("--unidirectional-new-file treat absent first files as empty"),
N_("--ignore-file-name-case ignore case when comparing file names"),
N_("--no-ignore-file-name-case consider case when comparing file names"),
N_("-x, --exclude=PAT exclude files that match PAT"),
N_("--exclude-from=FILE exclude files that match any pattern in FILE"),
N_("--starting-file=FILE start with FILE when comparing directories"),
N_("--from-file=FILE1 compare FILE1 to all operands
FILE1 can be a directory"),
N_("--to-file=FILE2 compare all operands to FILE2
FILE2 can be a directory"),
N_("-i, --ignore-case ignore case differences in file contents"),
N_("-E, --ignore-tab-expansion ignore changes due to tab expansion"),
N_("-Z, --ignore-trailing-space ignore white space at line end"),
N_("-b, --ignore-space-change ignore changes in the amount of white space"),
N_("-w, --ignore-all-space ignore all white space"),
N_("-B, --ignore-blank-lines ignore changes where lines are all blank"),
N_("-I, --ignore-matching-lines=RE ignore changes where all lines match RE"),
N_("-a, --text treat all files as text"),
N_("--strip-trailing-cr strip trailing carriage return on input"),
N_("--binary read and write data in binary mode"),
#if O_BINARY
N_("--binary read and write data in binary mode"),
#endif
N_("--ifdef=NAME output merged file with '#ifdef NAME' diffs"),
N_("--GTYPE-group-format=GFMT format GTYPE input groups with GFMT"),
N_("--line-format=L_FMT format all input lines with L_FMT"),
N_("--LTYPE-line-format=L_FMT format LTYPE input lines with L_FMT"),
N_(" These format options provide fine-grained control over the output
  of diff, generalizing -D/--ifdef.")
N_(" LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'.")
N_(" GFMT (only) may contain:\n%< lines from FILE1\n%> lines from FILE2\n%=- lines common to FILE1 and FILE2\n%[-][WIDTH][[PREC]][(doX)]LETTER printf-style spec for LETTER\nLETTERs are as follows for new group, lower case for old group:\n"
F  first line number
L  last line number
N  number of lines = L-F+1
E  F-1
M  L+1
%(A=B?T:E)  if A equals B then T else E

LFMT (only) may contain:
  %L  contents of line
  %l  contents of line, excluding any trailing newline
  %[-][WIDTH][.][PREC][doX] printf-style spec for input line number

Both GFMT and LFMT may contain:
  %  \%
  %c'C'  the single character C
  %c\OOO  the character with octal code OOO
  C    the character C (other characters represent themselves)

-d, --minimal try hard to find a smaller set of changes
--horizon-lines=NUM keep NUM lines of the common prefix and suffix
--speed-large-files assume large files and many scattered small changes
--help display this help and exit
--version output version information and exit

FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR.'
If --from-file or --to-file is given, there are no restrictions on FILE(s).
If a FILE is '-', read standard input.
Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.

static void
usage (void)
{
  char const * const *p;

  printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
  printf (_("Compare FILES line by line.
"), stdout);

  for (p = option_help_msgid;  *p;  p++)
    {
      if (!**p)
        putchar ('\n');
      else
        

char const *msg = _(*p);
char const *nl;
while ((nl = strchr (msg, '\n')))
{
    int msglen = nl + 1 - msg;
    printf ("%.*s", msglen, msg);
    msg = nl + 1;
}

printf ("%s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
}
emit_bug_reporting_address ()
}

/* Set VAR to VALUE, reporting an OPTION error if this is a
   conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
    if (*var && ! STREQ (*var, value))
    {
        error (0, 0, _("conflicting %s option value '%s'"), option, value);
        try_help (NULL, NULL);
    }
    *var = value;
}

/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
    if (output_style != style)
    {
        if (output_style != OUTPUT_UNSPECIFIED)
            try_help (_("conflicting output style options"), NULL);
        output_style = style;
    }
}

/* Set the last-modified time of *ST to be the current time. */

static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
    gettime (&STAT_TIMESPEC (st, st_mtim));
#else

    #else


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struct timespec t;
gmtime (&t);
st->st_mtime = t.tv_sec;
#if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
#else defined HAVE_STRUCT_STAT_ST_SPARE1
st->st_spare1 = t.tv_nsec / 1000;
#endif
#endif

/* Compare two files (or dirs) with parent comparison PARENT
and names NAME0 and NAME1.
(If PARENT is null, then the first name is just NAME0, etc.)
This is self-contained; it opens the files and closes them.

Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent,
                 char const *name0,
                 char const *name1)
{
    struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
    int status = EXIT_SUCCESS;
    bool same_files;
    char *free0;
    char *free1;

    /* If this is directory comparison, perhaps we have a file
        that exists only in one of the directories.
        If so, just print a message to that effect. */
    if (! ((name0 && name1)
        || (unidirectional_new_file && name1)
        || new_file))
    {
        char const *name = name0 ? name0 : name1;
        char const *dir = parent->file[!name0].name;

        /* See POSIX 1003.1-2001 for this format. */
        message ("Only in %s: %s
", dir, name);

        /* Return EXIT_FAILURE so that diff_dirs will return
           EXIT_FAILURE ("some files differ"). */
    }
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return EXIT_FAILURE;
}

memset(cmp.file, 0, sizeof cmp.file);
cmp.parent = parent;

/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */

if (!name0)
    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
    {
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
    }
else
    {
    cmp.file[0].name = free0
    = file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1
    = file_name_concat (parent->file[1].name, name1, NULL);
    }

/* Stat the files. */

for (f = 0; f < 2; f++)
    {
    if (cmp.file[f].desc != NONEXISTENT)
    {
    if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
    {
    cmp.file[f].desc = cmp.file[0].desc;
    cmp.file[f].stat = cmp.file[0].stat;
    }
} else if (STREQ (cmp.file[f].name, ".-"))
{
    cmp.file[f].desc = STDIN_FILENO;
    if (binary && ! isatty (STDIN_FILENO))
        set_binary_mode (STDIN_FILENO, O_BINARY);
    if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
        cmp.file[f].desc = ERRNO_ENCODE (errno);
    else
    {
        if (S_ISREG (cmp.file[f].stat.st_mode))
        {
            off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
            if (pos < 0)
                cmp.file[f].desc = ERRNO_ENCODE (errno);
            else
                cmp.file[f].stat.st_size =
                MAX (0, cmp.file[f].stat.st_size - pos);
        }
    }

    /* POSIX 1003.1-2001 requires current time for stdin. */
    set_mtime_to_now (&cmp.file[f].stat);
}
else if (!no_dereference_symlinks
    ? lstat (cmp.file[f].name, &cmp.file[f].stat)
    : stat (cmp.file[f].name, &cmp.file[f].stat))
!= 0)
    cmp.file[f].desc = ERRNO_ENCODE (errno);
}
}

/* Mark files as nonexistent as needed for -N and -P, if they are
   inaccessible empty regular files (the kind of files that 'patch'
   creates to indicate nonexistent backups), or if they are
   top-level files that do not exist but their counterparts do
   exist. */
for (f = 0; f < 2; f++)
    if ((new_file || (f == 0 && unidirectional_new_file))
        && (cmp.file[f].desc == UNOPENED
            ? (S_ISREG (cmp.file[f].stat.st_mode)
                && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
                && cmp.file[f].stat.st_size == 0))
            || cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
            || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
        && ! parent
        && (cmp.file[1 - f].desc == UNOPENED

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|| cmp.file[1 - f].desc == STDIN_FILENO))
    cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
    if (cmp.file[f].desc == NONEXISTENT)
    {
        memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
        cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
    }

for (f = 0; f < 2; f++)
{
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
    {
        errno = e;
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
    }
}

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
{
    /* If one is a directory, and it was specified in the command line,
    use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
    = find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "-"))
    fatal ("cannot compare '-' to a directory");

    if ((no_dereference_symlinks
         ? lstat (filename, &cmp.file[dir_arg].stat)
         : stat (filename, &cmp.file[dir_arg].stat))
         != 0)
    {
        perror_with_name (filename);
        status = EXIT_TROUBLE;
    }
}

if (status != EXIT_SUCCESS)
{
/* One of the files should exist but does not. */
else if (cmp.file[0].desc == NONEXISTENT
 && cmp.file[1].desc == NONEXISTENT)
 {
  /* Neither file "exists", so there's nothing to compare. */
  }
else if (same_files
 = (cmp.file[0].desc != NONEXISTENT
    && cmp.file[1].desc != NONEXISTENT
    && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
    && same_file_attributes (&cmp.file[0].stat,
    &cmp.file[1].stat))
    && no_diff_means_no_output)
{
  /* The two named files are actually the same physical file. We know they are identical without actually reading them. */
  }
else if (DIR_P(0) & DIR_P(1))
{
  if (output_style == OUTPUT_IFDEF)
    fatal ("-D option not supported with directories");

  /* If both are directories, compare the files in them. */

  if (parent & !recursive)
  {
    /* But don't compare dir contents one level down unless -r was specified. See POSIX 1003.1-2001 for this format. */
    message ("Common subdirectories: %s and %s\n", cmp.file[0].name, cmp.file[1].name);
  }
  else

    status = diff_dirs (&cmp, compare_files);
  }
else if ( (DIR_P(0) | DIR_P(1))
    || (parent
    && 1!(S_ISREG(cmp.file[0].stat.st_mode)
    || S_ISLNK (cmp.file[0].stat.st_mode))
    && (S_ISREG (cmp.file[1].stat.st_mode)
    || S_ISLNK (cmp.file[1].stat.st_mode))))
{
  if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
  {
    /* We have a subdirectory that exists only in one directory. */

    if ( (DIR_P(0) | DIR_P(1))

    else if (((CHECK_P(0) & CHECK_P(1))
    || (parent
    && 1!(S_ISREG (cmp.file[0].stat.st_mode)
    || S_ISLNK (cmp.file[0].stat.st_mode))
    && (S_ISREG (cmp.file[1].stat.st_mode)
    || S_ISLNK (cmp.file[1].stat.st_mode))))
    {
      if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
};
&& recursive
&& (new_file
|| (unidirectional_new_file
   && cmp.file[0].desc == NONEXISTENT)))
status = diff_dirs (&cmp, compare_files);
else
{
  char const *dir;

  /* PARENT must be non-NULL here. */
  assert (parent);
  dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

  /* See POSIX 1003.1-2001 for this format. */
  message ("Only in %s: %s\n", dir, name0);

  status = EXIT_FAILURE;
}
else
{
  /* We have two files that are not to be compared. */

  /* See POSIX 1003.1-2001 for this format. */
  message5 ("File %s is a %s while file %s is a %s\n",
            file_label[0] ? file_label[0] : cmp.file[0].name,
            file_type (&cmp.file[0].stat),
            file_type (&cmp.file[1].stat));

  /* This is a difference. */
  status = EXIT_FAILURE;
}
else if (S_ISLNK (cmp.file[0].stat.st_mode)
         || S_ISLNK (cmp.file[1].stat.st_mode))
{
  /* We get here only if we use lstat(), not stat(). */
  assert (no_dereference_symlinks);

  if (S_ISLNK (cmp.file[0].stat.st_mode)
      && S_ISLNK (cmp.file[1].stat.st_mode))
  {
    /* Compare the values of the symbolic links. */
    char *link_value[2] = { NULL, NULL };

    for (f = 0; f < 2; f++)
    {
link_value[f] = xreadlink (cmp.file[f].name);
if (link_value[f] == NULL)
{
    perror_with_name (cmp.file[f].name);
    status = EXIT_TROUBLE;
    break;
}
if (status == EXIT_SUCCESS)
{
    if ( ! STREQ (link_value[0], link_value[1]))
    {
        message ("Symbolic links %s and %s differ\n",
                 cmp.file[0].name, cmp.file[1].name);
        /* This is a difference. */
        status = EXIT_FAILURE;
    }
    for (f = 0; f < 2; f++)
        free (link_value[f]);
}
else
{
    /* We have two files that are not to be compared, because
     one of them is a symbolic link and the other one is not. */

    message5 ("File %s is a %s while file %s is a %s\n",
              file_label[0] ? file_label[0] : cmp.file[0].name,
              file_type (&cmp.file[0].stat),
              file_type (&cmp.file[1].stat));

    /* This is a difference. */
    status = EXIT_FAILURE;
}
else if (files_can_be_treated_as_binary
         && S_ISREG (cmp.file[0].stat.st_mode)
         && S_ISREG (cmp.file[1].stat.st_mode)
         && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
    {
        message ("Files %s and %s differ\n",
                 file_label[0] ? file_label[0] : cmp.file[0].name,
        status = EXIT_FAILURE;
    }
else
{

/* Both exist and neither is a directory. */

/* Open the files and record their descriptors. */

int oflags = O_RDONLY | (binary ? O_BINARY : 0);

if (cmp.file[0].desc == UNOPENED)
if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
if (cmp.file[1].desc == UNOPENED)
{
    if (same_files)
    cmp.file[1].desc = cmp.file[0].desc;
    else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
    {
        perror_with_name (cmp.file[1].name);
        status = EXIT_TROUBLE;
    }
}

/* Compare the files, if no error was found. */

if (status == EXIT_SUCCESS)
status = diff_2_files (&cmp);

/* Close the file descriptors. */

if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
&& close (cmp.file[1].desc) != 0)
{
    perror_with_name (cmp.file[1].name);
    status = EXIT_TROUBLE;
}

/* Now the comparison has been done, if no error prevented it, 
and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
if (report_identical_files && !DIR_P (0))
message ("Files %s and %s are identical", 
file_label[0] ? file_label[0] : cmp.file[0].name, 
}
else
{
    /* Flush stdout so that the user sees differences immediately. 
    This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
    pfatal_with_name (_("standard output"));
}
free (free0);
free (free1);
return status;
}

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1.2285 webswing-server-security 2.5-SNAPSHOT

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 * SPConfig - configuration settings for a service provider.
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/*
 * SAMLEException - Library-specific exceptions
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  jar/org/webswing/server/services/security/modules/saml2/com/lastpass/saml/SAMLException.java
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 * IdpConfig - configuration settings for an identity provider.
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/*
 * AttributeSet - subject details parsed from SAML Response
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  jar/org/webswing/server/services/security/modules/saml2/com/lastpass/saml/AttributeSet.java
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  jar/org/webswing/server/services/security/modules/saml2/com/lastpass/saml/SAMLClient.java
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/*
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SAMLInit - Library initialization routines.

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*/
/**
* Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
* version.
* *
* @param owner
*    the owner's class name.
* @param access
*    the method's access flags (see [@link Opcodes]).
* @param name
*    the method's name.
* @param desc
*    the method's descriptor (see [@link Type Type]).
* @param mv
*    the method visitor to which this adapter delegates calls. May
/**
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

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* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/sig尾/SignatureWriter.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/commons/VersionUIDAdder.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/github/CheckClassAdapter.java
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
jar/org/objectweb/asm/commons/StaticInitMerger.java

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*/
/**
* Creates a new JSRInliner. <i>Subclasses must not use this</i>
* constructor</i>. Instead, they must use the
* { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[]])

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@throws IllegalStateException
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*/

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*/

/**
 * Constructs a new [@link ClassNode]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
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*/
/**
 * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

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 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [@link TypeReference].
 *
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef’. May be
 * <tt>null</tt> if the annotation targets 'typeRef’ as a whole.
 *
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 *
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 *
 * @param index
 * the local variable’s index in each range. This array must have
 * the same size as the 'start' array.
 *
 * @param desc
 * the class descriptor of the annotation class.
 */

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* Creates a new [@link GeneratorAdapter]. <i>Subclasses must not use this
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* [@link #GeneratorAdapter(int, MethodVisitor, int, String, String)]
* version.
* *
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [@link Opcodes]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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*/opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-
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* /opt/cola/permits/1000772350_1646171572.49/0/asm-commons-5-0-4-sources-jar/org/objectweb/asm/xml/Processor.java
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1.2289 slide-webdavlib 2.1

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 * $Date: 2004/08/02 15:45:48 $ 
 */

Found in path(s):
* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/methods/VersionControlMethod.java

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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/properties/CheckedinProperty.java

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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-
  jar/org/apache/webdav/lib/methods/VersionControlMethod.java
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Found in path(s):
* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/properties/OwnerProperty.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/WebdavState.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/methods/CheckinMethod.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/methods/CopyMethod.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/WebdavResources.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/WebdavSession.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-
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jar/org/apache/webdav/lib/util/XMLDebugOutputer.java
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/*
 * $Header: /home/cvs/jakarta-slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/PropertyName.java,v 1.4 2004/08/02 15:45:49 unico Exp $
 * $Revision: 1.4 $
 * $Date: 2004/08/02 15:45:49 $
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jar/org/apache/webdav/lib/PropertyName.java

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  jar/org/apache/webdav/lib/properties/LockEntryProperty.java
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/*
* $Header: /home/cvs/jakarta-slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/util/DOMWriter.java,v
1.1 2004/08/02 15:45:49 unico Exp $
* $Revision: 1.1 $
* $Date: 2004/08/02 15:45:49 $
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  jar/org/apache/webdav/lib/util/DOMWriter.java
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/*
* $Header: /home/cvs/jakarta-slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/util/PropertyWriter.java,v
1.1 2004/08/02 15:45:49 unico Exp $
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  jar/org/apache/webdav/lib/methods/DeleteMethod.java
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/*
 * $Header: /home/cvs/jakarta-
 * slide/webdavclient/clientlib/src/java/org/apache/webdav/ui/WebdavSystemView.java,v 1.1.2.1 2004/10/11 08:18:14
 * luetzkendorf Exp $
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/.../slide-webdavlib-2-1-sources.jar/org/apache/webdav/lib/methods/DepthSupport.java
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 * $Header: /home/cvs/jakarta-slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/properties/PropertyFactory.java,v 1.1.2.2 2004/10/08 15:04:36 luetzkendorf Exp $
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/*
 * $Header: /home/cvs/jakarta-
  slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/properties/GetContentLengthProperty.java,v 1.3.2.1
  2004/09/26 14:19:20 luetzkendorf Exp $
 * $Revision: 1.3.2.1 $
 * $Date: 2004/09/26 14:19:20 $
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-
  jar/org/apache/webdav/lib/properties/GetContentLengthProperty.java
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/*
 * $Header: /home/cvs/jakarta-
  slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/properties/CreationDateProperty.java,v 1.1.2.1
  2004/09/26 14:19:20 luetzkendorf Exp $
 * $Revision: 1.1.2.1 $
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-
jar/org/apache/webdav/lib/Constants.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-
jar/org/apache/webdav/lib/properties/CheckedoutProperty.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-
jar/org/apache/webdav/lib/methods/UnsubscribeMethod.java
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* $Header: /home/cvs/jakarta-sli...
Found in path(s):
* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/properties/GetLastModifiedProperty.java
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/*
 *
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Found in path(s):
* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/properties/PrincipalCollectionSetProperty.java
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/*
 *
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Found in path(s):
* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/methods/MkWorkspaceMethod.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/methods/HttpRequestBodyMethodBase.java

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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/methods/AclMethod.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/properties/HrefValuedProperty.java
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 * /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/util/QName.java

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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/Property.java
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jar/org/apache/webdav/lib/properties/SupportedLockProperty.java
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/*
* $Header: /home/cvs/jakarta-slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/WebdavFile.java,v 1.5
2004/07/28 09:31:39 ib Exp $
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* jar/org/apache/webdav/lib/methods/ReportMethod.java

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* $Header: /home/cvs/jakarta-
* slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/methods/PollMethod.java,v 1.3 2004/08/02 15:45:48
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* jar/org/apache/webdav/lib/methods/PollMethod.java
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 * $Header: /home/cvs/jakarta-
slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/methods/LabelMethod.java,v 1.6 2004/08/02 15:45:47
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-
jar/org/apache/webdav/lib/properties/AclProperty.java
No license file was found, but licenses were detected in source scan.
/* $Revision: 1.3 $ */
/* $Date: 2004/07/28 09:31:40 $ */
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Found in path(s):
* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/Privilege.java
No license file was found, but licenses were detected in source scan.

/* $Header: /home/cvs/jakarta-slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/Lock.java,v 1.3.2.1 2004/10/11 08:17:19 luetzkendorf Exp $ */
/* $Revision: 1.3.2.1 $ */
/* $Date: 2004/10/11 08:17:19 $ */
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jar/org/apache/webdav/lib/Lock.java

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/*
 * Header: /home/cvs/jakarta-
slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/properties/CurrentUserPrivilegeSetProperty.java,v 1.4
 * 2004/08/02 15:45:50 unico Exp $
 * $Revision: 1.4 $
 * $Date: 2004/08/02 15:45:50 $
 *
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jar/org/apache/webdav/lib/properties/CurrentUserPrivilegeSetProperty.java

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/*
 * Header: /home/cvs/jakarta-
slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/methods/PropertyBodyHelper.java,v 1.4 2004/08/02
15:45:48 unico Exp $
 * $Revision: 1.4 $
 * $Date: 2004/08/02 15:45:48 $
 *
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  jar/org/apache/webdav/lib/methods/PropertyBodyHelper.java
No license file was found, but licenses were detected in source scan.

/*! $Header: /home/cvs/jakarta-
  slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/methods/XMLResponseMethodBase.java,v 1.14.2.2
  2004/11/17 14:00:44 luetzkendorf Exp $ $Revision: 1.14.2.2 $ $Date: 2004/11/17 14:00:44 $ */
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/*
 * $Header: /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources.jar/org/apache/webdav/lib/methods/XMLResponseMethodBase.java 
 * /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources.jar/org/apache/webdav/lib/methods/XMLResponseMethodBase.java
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Found in path(s):
* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources.jar/org/apache/webdav/lib/WebdavException.java
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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources.jar/org/apache/webdav/lib/WebdavException.java
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Found in path(s):
*/opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/util/DOMUtils.java

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/
* $Header: /home/cvs/jakarta-slide/webdavclient/clientlib/src/java/org/apache/webdav/lib/BaseProperty.java,v 1.5 2004/08/02 15:45:49 unico Exp $
* $Revision: 1.5 $
* $Date: 2004/08/02 15:45:49 $
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*/opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/BaseProperty.java

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 */

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* /opt/cola/permits/1001477563_1646171667.69/0/slide-webdavlib-2-1-sources-jar/org/apache/webdav/lib/methods/UnlockMethod.java

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  jar/org/apache/webdav/lib/methods/BindMethod.java
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/*
 * $Header: /home/cvs/jakarta-
scribe/webdavclient/clientlib/src/java/org/apache/webdav/lib/methods/UncheckoutMethod.java,v 1.4 2004/08/02
 15:45:48 unico Exp $
 * $Revision: 1.4 $
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  jar/org/apache/webdav/lib/methods/UncheckoutMethod.java
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/*
 * $Header: /home/cvs/jakarta-
scribe/webdavclient/clientlib/src/java/org/apache/webdav/lib/methods/PropPatchMethod.java,v 1.6 2004/08/02
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* $Revision: 1.6 $
* $Date: 2004/07/28 09:30:40 $
* $Author: $
* $State: Exp $
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jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/annotation/BeanMethod.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/ApplicationContextInitializer.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/MessageSourceAware.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/annotation/ImportAware.java
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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */
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/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * Exposes the {@code MBeanServer} for bean references.
 * This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * See the javadocs for WebSphere's
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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*/
/**
 * Indicates that a component is only eligible for registration when all
 * @linkplain #value specified conditions match.
 *
 * A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see @link Condition for details).
 *
 * The @Conditional annotation may be used in any of the following ways:
 * 
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * @Component, including @Configuration classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any @Bean method</li>
 * </ul>
 *
 * If a @Configuration class is marked with @Conditional,
 * all of the @Bean methods, @Import annotations, and
 * @ComponentScan annotations associated with that
 * class will be subject to the conditions.
 *
 * <strong>NOTE</strong>: Inheritance of @Conditional annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * @Conditional itself is not declared as
 * @Inherited; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
 * @Conditional must not be declared as @Inherited.
 *
 * @author Phillip Webb
 * @author Sam Brannen
 * @since 4.0
 * @see Condition
 */

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jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/support/AbstractXmlApplicationContext.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/event/SourceFilteringListener.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/support/GenericGroovyApplicationContext.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/support/ApplicationListenerDetector.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/jndi/JndiObjectLocator.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/jndi/TypeMismatchNamingException.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework.ejb/access/AbstractRemoteSlsbInvokerInterceptor.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/scheduling/instrument/classloading/ReflectiveLoadTimeWeaver.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/scheduling/config/FixedRateTask.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/scheduling/config/IntervalTask.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/support/ApplicationObjectSupport.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/jndi/JndiObjectTargetSource.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/cache/interceptor/CacheableOperation.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/index/CandidateComponentsIndexLoader.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/scheduling/annotation/AsyncExecutionInterceptor.java
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* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/cache/config/CacheManagementConfigUtils.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/cache/interceptor/BasicOperation.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/format/datetime/joda/JodaTimeConverters.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/validation/annotation/Validated.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
jar/org/springframework/context/annotation/PropertySources.java
* /opt/cola/permits/1136594936_1613806544.44/0/spring-context-5-0-8-release-sources-2-
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* /opt/cola/permits/1110674849_1654023025.8284445/0/wildfly-web-14-0-1-final-sources-1.jar/org/jboss/as/web/WriteEnableWelcomeRoot.java
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* /opt/cola/permits/1110674849_1654023025.8284445/0/wildfly-web-14-0-1-final-sources-1.jar/org/jboss/as/web/WebJSPDefinition.java

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* /opt/cola/permits/1110674849_1654023025.82844450/wildfly-web-14-0-1-final-sources-1.jar/org/jboss/as/web/DefaultJsProfileCompletionExceptionHandler.java
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jar/org/jboss/as/web/WebTransformers.java

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sources-1-jar/org/wildfly/extension/clustering/singleton/SingletonPolicyServiceHandler.java

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* /opt/cola/permits/1110676827_1654022984.0833771/0/wildfly-clustering-singleton-extension-14-0-1-final-
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### Jdom-contrib version 1.1.3

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Brics Automaton (under core/src/java/org/apache/lucene/util/automaton) is
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The levenshtein automata tables (under core/src/java/org/apache/lucene/util/automaton) were
automatically generated with the moman/finenight FSA library, created by
Jean-Philippe Barrette-LaPierre. This library is available under an MIT license,
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http://bitbucket.org/jpbarrette/moman/overview/

The class org.apache.lucene.util.WeakIdentityMap was derived from
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianMinimalStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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* /opt/cola/permits/1110675993_1654023045.6872523/0/wildfly-microprofile-opentracing-extension-14-0-1-final-sources-1-jar/org/wildfly/extension/microprofile/opentracing/SubsystemParser_1_0.java
* /opt/cola/permits/1110675993_1654023045.6872523/0/wildfly-microprofile-opentracing-extension-14-0-1-final-sources-1-jar/org/wildfly/extension/microprofile/opentracing/SubsytemParser_1_0.java
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* /opt/cola/permits/1110675993_1654023045.6872523/0/wildfly-microprofile-opentracing-extension-14-0-1-final-sources-1-jar/org/wildfly/extension/microprofile/opentracing/SubsystemAdd.java
* /opt/cola/permits/1110675993_1654023045.6872523/0/wildfly-microprofile-opentracing-extension-14-0-1-final-sources-1-jar/org/wildfly/extension/microprofile/opentracing/TracingDeploymentProcessor.java

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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The precise terms and conditions for copying, distribution and modification follow.

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@enumerate 0
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The ``source code'' for a work means the preferred form of the work for making modifications to it. ``Object code'' means any non-source form of a work.

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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@item
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@end enumerate
@item
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@item
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@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Petersen(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dossen provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agsc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)
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*m4/ax_func_which_gethostbyname_r.m4

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
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be optional: if the application does not supply it, the square
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That's all there is to it!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUT in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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2015
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$SHELL -ec '"$(GEN_DEPS.c) $< \
| sed \"s/\$(\*\)/,o| :]*\!o $@ : /g\" > $@;\"
[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n | sed "s/\(.*\)\.o\[ :\]/\1.\0 : /g\" > $@; \n [ -s $@ ] || rm -f $@

## Versioned libraries rules

%.$@.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$@.$(SO).$(SO_TARGET_VERSION)
$@ && ln -s ${<F} $@
%.$@: %.$@.$(SO).$(SO_TARGET_VERSION_MAJOR)
$@ && ln -s {*F}.$(SO).$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bs symbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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1.2322 cdparanoia 10.2-17.el7

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jar/org/springframework/beans/factory/config/ResourceBundleEditor.java
* /opt/ws_local/PERMITS_SQL/1068290127_1594350313.74/0/spring-beans-5-2-2-release-sources-1-
jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1068290127_1594350313.74/0/spring-beans-5-2-2-release-sources-1-
jar/org/springframework/beans/factory/config/EmbeddedValueResolver.java
* /opt/ws_local/PERMITS_SQL/1068290127_1594350313.74/0/spring-beans-5-2-2-release-sources-1-
jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
* /opt/ws_local/PERMITS_SQL/1068290127_1594350313.74/0/spring-beans-5-2-2-release-sources-1-
jar.org/springframework/beans/factory/config/ProviderCreatingFactoryBean.java
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* /opt/ws_local/PERMITS_SQL/1068290127_1594350313.74/0/spring-beans-5-2-2-release-sources-1-jar/org/springframework/beans/factory/config/ConfigurableListableBeanFactory.java
* /opt/ws_local/PERMITS_SQL/1068290127_1594350313.74/0/spring-beans-5-2-2-release-sources-1-jar/org/springframework/beans/factory/xml/AbstractSingleBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068290127_1594350313.74/0/spring-beans-5-2-2-release-sources-1-jar/org/springframework/beans/factory/support/SimpleAutowireCandidateResolver.java
* /opt/ws_local/PERMITS_SQL/1068290127_1594350313.74/0/spring-beans-5-2-2-release-sources-1-jar/org/springframework/beans/factory/parsing/ImportDefinition.java

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* /opt/ws_local/PERMITS_SQL/1068290127_1594350313.74/0/spring-beans-5-2-2-release-sources-1-jar/org/springframework/beans/factory/xml/BeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1068290127_1594350313.74/0/spring-beans-5-2-2-release-sources-1-jar/org/springframework/beans/factory/annotation/Qualifier.java
1.2326 sg3-utils 1.37 19.el7

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
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org.apache.tomcat:tomcat-jsp-api
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1091710328_1607114528.61/0/spring-struts-3-0-7-release-sources-1.jar/org/springframework/web/servlet/view/tiles/TilesView.java
* /opt/cola/permits/1091710328_1607114528.61/0/spring-struts-3-0-7-release-sources-1.jar/org/springframework/web/struts/ContextLoaderPlugIn.java

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* /opt/cola/permits/1091710328_1607114528.61/0/spring-struts-3-0-7-release-sources-1-jar/org/springframework/web/struts/DelegatingActionUtils.java
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* /opt/cola/permits/1091710328_1607114528.61/0/spring-struts-3-0-7-release-sources-1-jar/org/springframework/web/struts/DelegatingTilesRequestProcessor.java

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    connection.py
    resource.py
    compute/
    compute_service.py
    v2/
    server.py
    _proxy.py
    tests/
    compute/
v2/
test_server.py

clouds:
test_cloud:
    region_name: RegionOne
    auth:
        auth_url: http://xxx.xxx.xxx.xxx:5000/v2.0/
        username: demo
        password: secrete
        project_name: demo

rackspace:
    cloud: rackspace
    auth:
        username: joe
        password: joes-password
        project_name: 123123
        region_name: IAD

example:
    image_name: fedora-20.x86_64
    flavor_name: m1.small
    network_name: private

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* Subclass used to simply instantiation of singular attributes representing an entity's
* version.
*/

Found in path(s):
*/opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources-
jar/org/hibernate.ejb/metamodel/SingularAttributeImpl.java
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/
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jar/org/hibernate.ejb/criteria/TupleElementImplementor.java
*/opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources-
jar/org/hibernate/ejb/criteria/ValueHandlerFactory.java
*/opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources-
jar/org/hibernate/ejb/criteria/SelectionImplementor.java
*/opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources-
jar/org/hibernate/ejb/criteria/Renderable.java
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* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/InjectionSettingsFactory.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/metamodel/MetamodelImpl.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/transaction/JoinableCMTTransactionFactory.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/packaging/PackageFilter.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/HibernateEntityManager.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/EventListenerConfigurator.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/event/EJB3PostInsertEventListener.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/event/EJB3FlushEntityEventListener.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/packaging/PackageVisitor.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/packaging/ClassFilter.java

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* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/event/EJB3PostUpdateEventListener.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/packaging/JarVisitor.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/metamodel/MetadataContext.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/Version.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/packaging/XmlHelper.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/Ejb3ConfigurationObjectFactory.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/event/EJB3PersistOnFlushEventListener.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/event/CallbackHandlerConsumer.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/event/EJB3SaveOrUpdateEventListener.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/Ejb3Configuration.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/event/Callback.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/packaging/NamedInputStream.java
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* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/engine/EJB3CascadeStyle.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/util/ConfigurationHelper.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/packaging/NamedInputStream.java
* /opt/cola/permits/1110676268_1654022835.461133/0/hibernate-entitymanager-3-6-10-final-sources.jar/org/hibernate/ejb/event/EntityCallbackHandler.java
1.2344 joni 2.1.6

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* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/BitSet.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/ScannerSupport.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/exception/ErrorMessages.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/WarnCallback.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/exception/TokenType.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/ApplyCaseFold.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/Option.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/OptMapInfo.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/Region.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/ast/AnchorNode.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/Compiler.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/Regex.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/AsmCompiler.java
* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/MatcherFactory.java
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* /opt/cola/permits/1000040816_1646171454.65/0/joni-2-1-6-sources-jar/org/joni/Analyser.java
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.2346 xdg-desktop-portal 1.0.2 1.el7
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Authors:
* Alexander Larsson <alexl@redhat.com>

#ifndef __FLATPAK_PERMISSION_STORE_H__
#define __FLATPAK_PERMISSION_STORE_H__

void xdg_permission_store_start (GDBusConnection *connection);

#endif /* __FLATPAK_PERMISSION_STORE_H__ */

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When a program is linked with a library, whether statically or using
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combined work, a derivative of the original library. The ordinary
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Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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The value may
* either be the String-based resource identifier, or in the case of an entity bean resource it may be the natural primary key
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* specifies a resourceClasses member value with a single value being that of the entity bean class. This second use case is to
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* 
* @author Shane Bryzak
*/

Found in path(s):
* /opt/cola/permits/1003069710_1654022948.07957150/picketlink-idm-api-2-5-5-sp12-sources-1-jar/org/picketlink/idm/jpa/annotations/PermissionResourceIdentifier.java
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* /opt/cola/permits/1003069710_1654022948.07957150/picketlink-idm-api-2-5-5-sp12-sources-1-jar/org/picketlink/idm/credential/util/BCrypt.java
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* /opt/cola/permits/1003069710_1654022948.07957150/picketlink-idm-api-2-5-5-sp12-sources-1-jar/org/picketlink/idm/jpa/annotations/ExpiryDate.java
* /opt/cola/permits/1003069710_1654022948.07957150/picketlink-idm-api-2-5-5-sp12-sources-1-
jar/org/picketlink/idm/permission/acl/PermissionHandlerPolicy.java
* /opt/cola/permits/1003069710_1654022948.0795715/0/picketlink-idm-api-2-5-5-sp12-sources-1-jar/org/picketlink/idm/query/RelationshipQuery.java
* /opt/cola/permits/1003069710_1654022948.0795715/0/picketlink-idm-api-2-5-5-sp12-sources-1-jar/org/picketlink/idm/PartitionManager.java
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* /opt/cola/permits/1003069710_1654022948.0795715/0/picketlink-idm-api-2-5-5-sp12-sources-1-jar/org/picketlink/idm/IdentityManagementException.java
* /opt/cola/permits/1003069710_1654022948.0795715/0/picketlink-idm-api-2-5-5-sp12-sources-1-jar/org/picketlink/idm/model/AbstractAttributedType.java
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* /opt/cola/permits/1003069710_1654022948.0795715/0/picketlink-idm-api-2-5-5-sp12-sources-1-jar/org/picketlink/idm/jpa/annotations/entity/ConfigurationName.java
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* /opt/cola/permits/1003069710_1654022948.0795715/0/picketlink-idm-api-2-5-5-sp12-sources-1-jar/org/picketlink/idm/config/LDAPMappingConfiguration.java
* /opt/cola/permits/1003069710_1654022948.0795715/0/picketlink-idm-api-2-5-5-sp12-sources-1-jar/org/picketlink/idm/jpa/annotations/RelationshipClass.java
* /opt/cola/permits/1003069710_1654022948.0795715/0/picketlink-idm-api-2-5-5-sp12-sources-1-
1.2349 rsync 3.1.3-9.el7_7.0atomix1

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* /opt/cola/permits/1000096794_1607114830.77/0/stax-1-2-0-sources-1-jar/com/bea/xml/stream/events/CharactersEvent.java
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* /opt/cola/permits/1000096794_1607114830.77/0/stax-1-2-0-sources-1-jar/com/bea/xml/stream/events/EndElementEvent.java

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1.2365 hibernate-envers 5.3.6.Final

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    public DomainResponse domain(InetAddress ipAddress) throws IOException,

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1.2369 wildfly-weld-transactions 14.0.1.Final

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* /opt/cola/permits/110676767_1606843138.48/0/spring-core-5-1-4-release-sources-1-
java/jar/org/springframework/core/env/PropertySources.java
* /opt/cola/permits/110676767_1606843138.48/0/spring-core-5-1-4-release-sources-1-
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* /opt/cola/permits/110676767_1606843138.48/0/spring-core-5-1-4-release-sources-1-
java/jar/org/springframework/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/110676767_1606843138.48/0/spring-core-5-1-4-release-sources-1-
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* /opt/cola/permits/110676767_1606843138.48/0/spring-core-5-1-4-release-sources-1-
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* /opt/cola/permits/110676767_1606843138.48/0/spring-core-5-1-4-release-sources-1-jar/org/springframework/core/SimpleAliasRegistry.java
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* /opt/cola/permits/110676767_1606843138.48/0/spring-core-5-1-4-release-sources-1-jar/org/springframework/core/io/FileUrlResource.java
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  jar/org/springframework/asm/ClassTooLargeException.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java
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   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingImmutableSet.java
   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingDeque.java
   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/AllEqualOrdering.java
   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingNavigableMap.java
   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/DescendingMultiset.java
   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingImmutableList.java
   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/TreeTraverser.java
   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingNavigableSet.java
   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/FilteredSetMultimap.java
   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/FilteredEntryMultimap.java
   * /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/FilteredMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/FilteredKeySetMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/AbstractNavigableMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/RangeMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/RegularImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/CompactLinkedHashMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/AbstractMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/TransformedListIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/collection/FilteredEntrySetMultimap.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/base/CommonMatcher.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/base/PatternCompiler.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/annotations/GwtCompatible.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/InternetDomainName.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/Service.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/DenseImmutableTable.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteArrayList.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SparseImmutableTable.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/Striped64.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/Striped64.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

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 */

/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * <p>We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize
 * it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT
 */
* compiler to autostrip the normal server method in order to expose the special, inherited GWT version.
*/

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/MutableNetwork.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/MutableGraph.java
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* /opt/ws/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/ws/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/ws/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/ws/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/AbstractSequentialIterator.java
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jar/com/google/common/collection/MinMaxPriorityQueue.java
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jar/com/google/common/util/concurrent/FluentFuture.java
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jar/com/google/common/escape/CharEscaper.java
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jar/com/google/common/io/PatternFilenameFilter.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Verify.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CharSequenceReader.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeVisitor.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/Comparators.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/HashMultimapGwtSerializationDependencies.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/IndexedImmutableSet.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ComparisonChain.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ForwardingTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ArrayTable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/RegularImmutableList.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ImmutableSetMultimap.java

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/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/BaseGraph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ObjectCountHashMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/FileWriteMode.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/Element.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/LongAddable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/LongAddables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/LongAddables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeCapture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/LinearTransformation.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CharSink.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CharSource.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/ClassPath.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/SipHashFunction.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/hash/LongAddable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/Closer.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/PairAddable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/xml/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/reflect/Invokable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteSource.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/RateLimiter.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/math/StatsAccumulator.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/escape/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/ImmutableRangeSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Count.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/GeneralRange.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedIterables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/SortedIterable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/RangeSet.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/GeneralRange.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/AbstractRangeSet.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/SortedIterables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/eventbus/Subscribe.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
jar/com/google/common/io/CountingOutputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Functions.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Suppliers.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Throwables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Preconditions.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/CountingInputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Predicate.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/ByteStreams.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/LineReader.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/LineBuffer.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/Resources.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/io/Flushables.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/FinalizableReference.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Interners.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collect/Multimap.java
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/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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  jar/com/google/common/base/SmallCharMatcher.java
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  jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/io/ReaderInputStream.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/InterruptibleTask.java
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  jar/com/google/common/util/concurrent/Platform.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-
  jar/com/google/common/hash/FarmHashFingerprint64.java
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  jar/com/google/common/collect/ConsumingQueueIterator.java
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  jar/com/google/common/util/concurrent/MacHashFunction.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/base/Strings.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/base/Ascii.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/primitives/package-info.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/annotations/Beta.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/collect/SortedLists.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/annotations/package-info.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/base/Equivalence.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources.jar/com/google/common/util/concurrent/Atomics.java

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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collections/RegularImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collections/ImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collections/Platform.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collections/ImmutableMapKeySet.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collections/Collections2.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/collections/CollectPreconditions.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/net/HostAndPort.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/cache/AbstractCache.java
* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/base/Enums.java
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* /opt/ws_local/PERMITS_SQL/1070825299_1594748139.03/0/guava-28-0-android-sources-jar/com/google/common/primitives/UnsignedInteger.java
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*/
/**
   * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@link ImmutableSortedMap}, not this dummy version.
   *
   * @throws UnsupportedOperationException always
   * @deprecated <b>Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}.</b>
   */

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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+++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.
Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn’t been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.
The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.2380 wildfly-elytron-mechanism-http

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sources-jar/org/wildfly/security/mechanism/http/ElytronMessages.java

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  jar/org/jboss/resteasy/test/TestPortProvider.java

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/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: &lt;a href="http://iharder.net/base64">http://iharder.net/base64</a&gt;.</p>
 * </p>
 * <p>Example:</p>
 * </p>
 * &lt;code&gt;String encoded = Base64.encode( myByteArray );&lt;/code&gt;
 * &lt;br &gt;
 * &lt;code&gt;byte[] myByteArray = Base64.decode( encoded );&lt;/code&gt;
 * </p>
 * &lt;p&gt;The &lt;tt&gt;options&lt;/tt&gt; parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes( bytes, options ) the options parameter can be used to indicate such
* things as first gzipping the bytes before encoding them, not inserting linefeeds,
* and encoding using the URL-safe and Ordered dialects.</p>
* <sp/>
* <sp/>
* Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations should not add line feeds unless explicitly told
to do so. I've got Base64 set to this behavior now, although earlier versions
broke lines by default.</p>
* <sp/>
* The constants defined in Base64 can be OR-ed together to combine options, so you
might make a call like this:</p>
* <sp/>
* String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>
* to compress the data before encoding it and then making the output have newline characters.</p>
* Also... </p>
* String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>
* Change Log:
* <sp/>
* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the
value 01111111, which is an invalid base 64 character but should not
throw an ArrayIndexOutOfBoundsException either. Led to discovery of
mishandling (or potential for better handling) of other bad input
characters. You should now get an IOException if you try decoding
something that has bad characters in it.</li>
* v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
string ended in the last column; the buffer was not properly shrunk and
contained an extra (null) byte that made it into the string.</li>
* v2.3.5 - Fixed bug in {@link encodeFromFile} where estimated buffer size
was wrong for files of size 31, 34, and 37 bytes.</li>
* v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
the Base64.OutputStream closed the Base64 encoding (by padding with equals
signs) too soon. Also added an option to suppress the automatic decoding
of gzipped streams. Also added experimental support for specifying a
class loader when using the
* [@link decodeToObject(java.lang.String, int, java.lang.ClassLoader)]
* method.</li>
* v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
footprint with its CharEncoders and so forth. Fixed some javadocs that were
inconsistent. Removed imports and specified things like java.io.IOException
explicitly inline.</li>
* v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
final encoded data will be so that the code doesn't have to create two output
arrays: an oversized initial one and then a final, exact-sized one. Big win
when using the {@link encodeBytesToBytes(byte[])} family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff).
* v2.3.1 - Added [@link #encodeBytesToBytes(byte[], int, int, int)] and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
* v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
* <ul>
* <li>Does not break lines, by default.</li>
* <li>This is to keep in compliance with</li>
* <li>Throws exceptions instead of returning null values.</li>
* <li>Because some operations</li>
* <li>(especially those that may permit the GZIP option) use IO streams, there</li>
* <li>is a possibility of a java.io.IOException being thrown. After some discussion and</li>
* <li>thought, I've changed the behavior of the methods to throw java.io.IOException</li>
* <li>rather than return null if ever there's an error. I think this is more</li>
* <li>appropriate, though it will require some changes to your code. Sorry,</li>
* <li>it should have been done this way to begin with.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* <li>Shame on me. All I can say is sorry they were ever there.</li>
* <li>Throws NullPointerExceptions and IllegalArgumentExceptions</li>
* <li>such as when passed arrays are null or offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.</li>
* <li>This was especially annoying before for people who were thorough in their</li>
* own projects and then had gobs of javadoc warnings on this file.</li>
* <ul>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug</li>
* <li>when using very small files (~<lt; 40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from</li>
* <li>one file to the next. Also added a main() method to support command line</li>
* <li>encoding/decoding from one file to the next. Also added these Base64 dialects:</li>
* <ol>
* <li>The default is RFC3548 format.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates</li>
* <li>URL and file name friendly format as described in Section 4 of RFC3548.</li>
* <li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates</li>
* <li>URL and file name friendly format that preserves lexical ordering as described</li>
* </ol>
* Special thanks to Jim Kellerman at [a href="http://www.powerset.com/"]http://www.powerset.com/</a>
* for contributing the new Base64 dialects.
* <p>
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that’s being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You’ll probably have to change some method calls that you were making to support the new options format (int flags that you “OR” together).
* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using decode(String s, boolean gzipCompressed).
* v1.5 - Output stream passes on flush() command but doesn’t do anything itself. This helps when using GZIP streams.
* v1.4.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that ‘position’ is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when “improperly padded stream” error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.

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Please visit http://iharder.net/base64 periodically to check for updates or to contribute improvements.

@version 2.3.7
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/**
* Any exception thrown by a MessageBodyWriter chain that is not an instance of a WriterException is caught internally by the Resteasy runtime and wrapped with an instance of WriterException.
If you want to have special exception handling for exceptions thrown by MessageBodyWriters and their interceptors, then write an exception mapper for WriterException.

Also, you may extend this class and throw instances of it from your MessageBodyWriters (and interceptors)

@Author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
@Version $Revision: 1$

Any exception thrown by a MessageBodyReader chain that is not an instance of a ReaderException is caught internally by the Resteasy runtime and wrapped with an instance of ReaderException.

If you want to have special exception handling for exceptions thrown by MessageBodyReaders, then write an exception mapper for ReaderException.

Also, you may extend this class and throw instances of it from your MessageBodyReaders (and interceptors)

@Author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
@Version $Revision: 1$

Jboss-invocation 1.5.1.Final

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*   /opt/cola/permits/1110674972_1606843241.09/0/jboss-invocation-1.5.1-final-sources-1.jar/org/jboss/invocation/proxy/SerializableProxy.java
*   /opt/cola/permits/1110674972_1606843241.09/0/jboss-invocation-1.5.1-final-sources-1.jar/org/jboss/invocation/proxy/reflection/ClassMetadataSource.java
*   /opt/cola/permits/1110674972_1606843241.09/0/jboss-invocation-1.5.1-final-sources-1.jar/org/jboss/invocation/proxy/reflection/DefaultClassMetadataSource.java
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*   /opt/cola/permits/1110674972_1606843241.09/0/jboss-invocation-1.5.1-final-sources-1.jar/org/jboss/invocation/proxy/reflection/ReflectionMetadataSource.java
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*   /opt/cola/permits/1110674972_1606843241.09/0/jboss-invocation-1.5.1-final-sources-1.jar/org/jboss/invocation/proxy/ProxyConfiguration.java
*   /opt/cola/permits/1110674972_1606843241.09/0/jboss-invocation-1.5.1-final-sources-1.jar/org/jboss/invocation/InterceptorInstanceFactory.java
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* /opt/cola/permits/1104729190_1604648960.54/0/spring-core-5-2-10-release-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /opt/cola/permits/1104729190_1604648960.54/0/spring-core-5-2-10-release-sources-jar/org/springframework/core/SimpleAliasRegistry.java
* /opt/cola/permits/1104729190_1604648960.54/0/spring-core-5-2-10-release-sources-jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
* /opt/cola/permits/1104729190_1604648960.54/0/spring-core-5-2-10-release-sources-jar/org/springframework/core/codec/Encoder.java
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org.springframework.core.ReactiveAdapterRegistry$SpringCoreBlockHoundIntegration

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1.2393 remoting-jmx 3.0.0.Final

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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/wsdl/fromJava/Types.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/utils/cache/ClassCache.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/SimpleJMSWorker.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConnectorFactory.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/Handler.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/components/jms/SonicMQVendorAdapter.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/Subscription.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConstants.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/TopicConnector.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSURLConnection.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConnectorManager.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/types/Month.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/types/Time.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPBody.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/holders/OctetStreamHolder.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAPFactoryImpl.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAP11Constants.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/transport/http/AxisServletBase.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAPConnectionFactoryImpl.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/description/ServletEngineConfigurationFactory.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/AxisServiceConfigImpl.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/components/net/SocketFactory.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/message/Text.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/holders/MonthHolder.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/DeploymentAdministrator.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/DeploymentQuery.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/client/async/AsyncResult.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/encoding/DeserializationTransformer.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/Deserializer.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ArrayDeserializer.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ElementDeserializer.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/VectorDeserializerFactory.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/javax/xml/soap/AttachmentPart.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/javax/xml/rpc/holders/QNameHolder.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/MessageEntry.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/Utils.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/components/compiler/AbstractCompiler.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/components/threadpool/ThreadPool.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/handlers/SimpleSessionHandler.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/encryption/wsdd/WSDDRequestFlow.java
jar/org/apache/axis/deployment/wsdd/WSDDDeployableItem.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/DateDeserializer.java
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* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDException.java
* /opt/cola/permits/1000421470_1646171467.34/0/axis-1-4-sources-jar/org/apache/axis/transport/http/QSHandler.java
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1.2395 godbus v4.0.0

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* /opt/ws_local/PERMITS_SQL/1068290279_1594347253.59/0/spring-aop-5-2-2-release-sources-1-jar/org/springframework/aop/ProxyMethodInvocation.java
* /opt/ws_local/PERMITS_SQL/1068290279_1594347253.59/0/spring-aop-5-2-2-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
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**1.2410 wagon-provider-api 1.0-beta 6**

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* /opt/cola/permits/1110631072_1606841294.0/0/validation-api-1-1-0-final-sources-3-jar/javax/validation/ConstraintViolationException.java
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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single nxt200x frontend driver.

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  jar/org/jboss/as/jdr/util/WildcardPattern.java
* /opt/cola/permits/1110676943_1654023027.5548306/0/wildfly-jdr-14-0-1-final-sources-1-
  jar/org/jboss/as/jdr/plugins/PluginId.java
* /opt/cola/permits/1110676943_1654023027.5548306/0/wildfly-jdr-14-0-1-final-sources-1-
  jar/org/jboss/as/jdr/JdrReportSubsystemDefinition.java
* /opt/cola/permits/1110676943_1654023027.5548306/0/wildfly-jdr-14-0-1-final-sources-1-
  jar/org/jboss/as/jdr/vfs/Filters.java
* /opt/cola/permits/1110676943_1654023027.5548306/0/wildfly-jdr-14-0-1-final-sources-1-
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* /opt/cola/permits/1110676943_1654023027.5548306/0/wildfly-jdr-14-0-1-final-sources-1-jar/org/jboss/as/jdr/JdrReportRequestHandler.java
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* /opt/cola/permits/1110676943_1654023027.5548306/0/wildfly-jdr-14-0-1-final-sources-1-jar/org/jboss/as/jdr/commands/DeploymentDependencies.java
* /opt/cola/permits/1110676943_1654023027.5548306/0/wildfly-jdr-14-0-1-final-sources-1-jar/org/jboss/as/jdr/util/PatternSanitizer.java
* /opt/cola/permits/1110676943_1654023027.5548306/0/wildfly-jdr-14-0-1-final-sources-1-jar/org/jboss/as/jdr/commands/JdrCommand.java
* /opt/cola/permits/1110676943_1654023027.5548306/0/wildfly-jdr-14-0-1-final-sources-1-jar/org/jboss/as/jdr/JdrReportSubsystemRemove.java
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* /opt/cola/permits/1000740379_1646171491.53/0/opensaml-soap-impl-3-3-0-sources-
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1.2423 color-filesystem 1-13.el7

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* /opt/cola/permits/1003488598_1606843807.63/0/color-filesystem-1-13.el7-1.src.rpm-cosi-expand-archive-bNsUOMtN/color-filesystem.spec

1.2424 glew 1.7.0

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Mesa 3-D graphics library
Version: 7.0
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The snowball stemmers in
   analysis/common/src/java/net/sf/snowball
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The full snowball package is available from
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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
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* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
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jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
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jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
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jar/org/springframework/context/annotation/Lazy.java

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 */
/**
 * [FactoryBean] that obtains a WebSphere [MBeanServer] reference through WebSphere's proprietary [AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * Exposes the [MBeanServer] for bean references.
 * This FactoryBean is a direct alternative to [MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * See the javadocs for WebSphere's
 * [AdminServiceFactory] and [MBeanFactory].
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

Found in path(s):
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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 */

/*
 * Abstract the invocation of a cache operation.
 *
 * Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
* @author Stephane Nicoll
* @since 4.1
*/

Found in path(s):
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jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/context/expression/BeanFactoryAccessor.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/instrument/classloading/websphere/WebSphereLoadTimeWeaver.java
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jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
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jar/org/springframework/context/support/ApplicationContextAwareProcessor.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/format/datetime/joda/JodaTimeFormatterRegistrar.java
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jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/context/expression/EnvironmentAccessor.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/context/annotation/Condition.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/scheduling/config/ScheduledTask.java
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jar/org/springframework/context/event/SmartApplicationListener.java
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* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
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* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/scheduling/concurrent/DefaultManagedAwareThreadFactory.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/validation/DefaultBindingErrorProcessor.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/validation/AbstractErrors.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/validation/MessageCodeFormatter.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/jndi/JndiTemplate.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/jndi/JndiCallback.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/context/support/LiveBeansView.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
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 */
/**
 * Indicates that a component is only eligible for registration when all
 * [@linkplain #value specified conditions] match.
 *
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see [@link Condition] for details).
 *
 * <p>The [@code @Conditional] annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 *     [@code @Component], including [@link Configuration @Configuration] classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 *     annotations</li>
 * <li>as a method-level annotation on any [@link Bean @Bean] method</li>
 * </ul>
 *
 * <p>If a [@code @Configuration] class is marked with [@code @Conditional],
 * all of the [@code @Bean] methods, [@link Import @Import] annotations, and
 * [@link ComponentScan @ComponentScan] annotations associated with that
 * class will be subject to the conditions.
 *
 * <p><strong>NOTE</strong>: Inheritance of [@code @Conditional] annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
* [@code @Conditional] itself is not declared as
* [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* [@code @Conditional] must not be declared as [@code @Inherited].

* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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  jar/org/springframework/context/annotation/Conditional.java
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  jar/org/springframework/jmx/export/assembler/AutodetectCapableMBeanInfoAssembler.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/context/annotation/ScopeMetadata.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/remoting/RemoteLookupFailureException.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/context/config/ContextNamespaceHandler.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/remoting/rmi/RmiClientInterceptor.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/ejb/config/JeeNamespaceHandler.java
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jar/org/springframework/context/event/ContextClosedEvent.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/ui/context/support/UiApplicationContextUtils.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/context/event/ContextStoppedEvent.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/remoting/soap/SoapFaultException.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/validation/validation/MessageCodesResolver.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/context/event/ContextRefreshedEvent.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/context/ApplicationContextException.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/remoting/RemoteProxyFailureException.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/jndi/JndiLookupFailureException.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/jndi/JndiLookupFailureException.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/jndi/JndiLookupFailureException.java
* /opt/cola/permits/110677009_1606843451.03/0/spring-context-5-1-6-release-sources.jar/org/springframework/jndi/JndiLookupFailureException.java
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  jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/jmx/export/ManagedOperationParameter.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1110677009_1606843451.03/0/spring-context-5-1-6-release-sources-
  jar/org/springframework/jmx/export/SpringModelMBean.java

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Manifest-Version: 1.0

Name: org/aspectj/lang/
Specification-Title: AspectJ Runtime Classes
Specification-Version: 1.7
Specification-Vendor: aspectj.org
Implementation-Title: org.aspectj.tools
Implementation-Version: 1.7.4
Implementation-Vendor: aspectj.org
Bundle-Name: AspectJ Runtime
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
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  jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
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  jar/io/netty/channel/pool/ChannelPoolMap.java

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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its { @link ChannelPipeline}. 
 *
 */

<h3>Sub-types</h3>
subtypes:
* <ul>
* <li>{@link ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object. Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler<Message>} {
*     private boolean loggedIn;
*     
*     @Override
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else if (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             }
*         }
*     }
* 
*     private boolean loggedIn;
* }
* </pre>

Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where a unauthenticated client can get
the confidential information:

```java
// Create a new handler instance per channel.
// See {@link ChannelInitializer#initChannel(Channel)}.
public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {
    {code @Override}
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
    }
}
```

**Using {@link AttributeKey}s**

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use {@link AttributeKey}s which is provided by

```java
public interface Message {
    // your methods here
}

{code @Sharable}
public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
    private final {@link AttributeKey}<{@link Boolean}> auth =
            {link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};

    {code @Override}
    public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
        {link Attribute}<{@link Boolean}> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            <b>attr.set(true)</b>;
        } else (message instanceof GetDataMessage) {
            if (<b>Boolean.TRUE.equals(attr.get())</b>) {
```
ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
} else {
    fail();
}
...

Now that the state of the handler is attached to the \texttt{ChannelHandlerContext}, you can add the same handler instance to different pipelines:

```
public class DataServerInitializer extends \texttt{ChannelInitializer}\{\texttt{Channel}\} {

    private static final DataServerHandler \texttt{SHARED} = new DataServerHandler();

    \texttt{@Override}
    public void initChannel(\texttt{Channel} channel) {
        channel.pipeline().addLast("handler", \texttt{SHARED});
    }
}
```

The \texttt{@Sharable} annotation

In the example above which used an \texttt{AttributeKey}, you might have noticed the \texttt{@Sharable} annotation. If a \texttt{ChannelHandler} is annotated with the \texttt{@Sharable} annotation, it means you can create an instance of the handler just once and add it to one or more \texttt{ChannelPipeline}s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the \texttt{ChannelHandler}, and \texttt{ChannelPipeline} to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.
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jar/io/netty/channel/socket/InternetProtocolFamily.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-
jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-
jar/io/netty/channel/FileRegion.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-
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jar/io/netty/channel/FixedRecvByteBufAllocator.java
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jar/io/netty/channel/ChannelPromiseNotifier.java
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jar/io/netty/channel/socket/ServerSocketChannel.java
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jar/io/netty/channel/socket/SocketChannel.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-
jar/io/netty/channel/AbstractServerChannel.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-
jar/io/netty/channel/ChannelDuplexHandler.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-
jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
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jar/io/netty/channel/DefaultChannelPromise.java
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jar/io/netty/channel/socket/DefaultChannelPromise.java
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/nio/NioTask.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/group/CombinedIterator.java
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/ChannelMetadata.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/FailedChannelFuture.java
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/socket/DefaultEventLoop.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/nio/package-info.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/socket/package-info.java
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java
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  jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4-1-39-final-sources-
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* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4.1.39-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4.1.39-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4.1.39-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4.1.39-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4.1.39-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4.1.39-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4.1.39-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4.1.39-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1072989928_1595248338.52/0/netty-transport-4.1.39-final-sources-
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1.2458 spring-boot-starter-web

2.1.4.RELEASE

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1.2462 libcgroup 0.41 21.el7

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- `analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

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* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlValue.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/JAXBEElement.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlRootElement.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlElementRef.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/xmlns.xml
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlID.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlNsForm.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/JAXBIntrospector.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/HttpNamespace.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlNs.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/adapters/NormalizedStringAdapter.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/adapters/HexBinaryAdapter.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/adapters/XmlAdapter.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlAttribute.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlIDREF.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlSchema.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlTransient.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlID.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlNsForm.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlIDREF.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlType.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlEnum.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlElementRefs.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlElementDecl.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlAttribute.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlID.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlNsForm.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlIDREF.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlType.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlEnum.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlElementRefs.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlElementDecl.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-jar/java/xml/bind/annotation/XmlIDREF.java
* /opt/cola/permits/1000760720_1646171551.91/0/jaxb-api-2-1-sources-
1.2469 harfbuzz 1.2.7

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1.2470 jzlib 1.1.1

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* /opt/cola/permits/1003069654_1646171680.33/0/jzlib-1-1-1-sources-jar/com/jcraft/jzlib/StaticTree.java
* /opt/cola/permits/1003069654_1646171680.33/0/jzlib-1-1-1-sources-jar/com/jcraft/jzlib/Tree.java
* /opt/cola/permits/1003069654_1646171680.33/0/jzlib-1-1-1-sources-jar/com/jcraft/jzlib/InfCodes.java
* /opt/cola/permits/1003069654_1646171680.33/0/jzlib-1-1-1-sources-jar/com/jcraft/jzlib/InfTree.java
* /opt/cola/permits/1003069654_1646171680.33/0/jzlib-1-1-1-sources-jar/com/jcraft/jzlib/ZStreamException.java

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* /opt/cola/permits/1003069654_1646171680.33/0/jzlib-1-1-1-sources-jar/com/jcraft/jzlib/Deflate.java
* /opt/cola/permits/1003069654_1646171680.33/0/jzlib-1-1-1-sources-jar/com/jcraft/jzlib/Inflate.java
* /opt/cola/permits/1003069654_1646171680.33/0/jzlib-1-1-1-sources-jar/com/jcraft/jzlib/ZStream.java
* /opt/cola/permits/1003069654_1646171680.33/0/jzlib-1-1-1-sources-jar/com/jcraft/jzlib/Adler32.java

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1.2473 libsndfile 1.0.25-11.el7

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  jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-
  jar/org/springframework/web/servlet/view/velocity/VelocityToolboxView.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-
  jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java

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/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* [<link #locateSource detected>] during response rendering. Users can either specify
* a specific entry in the model via the [<link #setSourceKey sourceKey>] property or
* have Spring locate the Source object. This class also provides basic conversion
*/
* of objects into Source implementations. See { @link #getSourceTypes() here} 
* for more details.
*
* <p> All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure { @link #setOutputProperties output properties} 
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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* /opt/cola/permits/1110676884_1606843964.15/0/spring-webmvc-4-0-2-release-sources-1-
  jar/org/springframework/web/servlet/view/xslt/XsltView.java
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  jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-
  jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
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/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * [@link locateSource detected] during response rendering. Users can either specify
 * a specific entry in the model via the [@link setSourceKey sourceKey] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See [@link getSourceTypes() here]
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [@link setOutputProperties output properties]
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 * @author Rob Harrop
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jar/org/springframework/web/servlet/view/xslt/XsltView.java

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* /opt/cola/permits/1110676884_1606843964.15/0/spring-webmvc-4-0-2-release-sources-1.jar/org/springframework/web/servlet/handler/BeanNameUrlHandlerMapping.java
* /opt/cola/permits/1110676884_1606843964.15/0/spring-webmvc-4-0-2-release-sources-1.jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java

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 */

/**
 * A contract for inspecting and potentially modifying request data values such
 * as URL query parameters or form field values before they are rendered by a
 * view or before a redirect.
 */
* Implementations may use this contract for example as part of a solution
  * to provide data integrity, confidentiality, protection against cross-site
  * request forgery (CSRF), and others or for other tasks such as automatically
  * adding a hidden field to all forms and URLs.
  *
  * View technologies that support this contract can obtain an instance to
  * delegate to via `@link RequestContext#getRequestDataValueProcessor()`.
  *
  * @author Rossen Stoyanchev
  * @since 3.1
*/

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*/opt/cola/permits/1110676884_1606843964.15/0/spring-webmvc-4-0-2-release-sources-1-
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jar/org/springframework/web/servlet/config/annotation/InterceptorRegistry.java
*/opt/cola/permits/1110676884_1606843964.15/0/spring-webmvc-4-0-2-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestDataBinderFactory.java
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  jar/org/springframework/web/servlet/view/document/AbstractPdfStamperView.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-
  jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-
  jar/org/springframework/web/servlet/view/feed/AbstractFeedView.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-
  jar/org/springframework/web/servlet/mvc/support/ControllerTypePredicate.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-
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* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-
  jar/org/springframework/web/servlet/support/AbstractAnnotationConfigDispatcherServletInitializer.java

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/**
* A contract for inspecting and potentially modifying request data values such
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*
* Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* View technologies that support this contract can obtain an instance to
* delegate to via @link RequestContext#getRequestDataValueProcessor().
*
* @author Rossen Stoyanchev
* @since 3.1
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* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/mvc/annotation/ResponseStatusExceptionResolver.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/tags/BindErrorsTag.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/view/jasperreports/AbstractJasperReportsView.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/FrameworkServlet.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/support/WebContentGenerator.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/RequestResponseBodyMethodProcessor.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractFormTag.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/view/tiles3/TilesConfigurer.java
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*/opt/cola/permits/110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1.jar/org/springframework/web/servlet/view/tiles3/TilesView.java
*/opt/cola/permits/110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1.jar/org/springframework/web/servlet/views/RedirectView.java
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*/opt/cola/permits/110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1.jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMethodArgumentResolver.java
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* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceHttpServletRequest.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurationSupport.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/tags/form/FormTag.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfo.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/RequestMethodArgumentResolver.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestArgumentResolver.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/ParamsRequestCondition.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java
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* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/ServletForwardingController.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/method/MappingInfoHandlerMapping.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/RequestMethodsRequestCondition.java
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* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-jar/org/springframework/web/servlet/mvc/ServletWrappingController.java
* /opt/cola/permits/1110676884_1606843965.18/0/spring-webmvc-4-0-2-release-sources-1-
jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
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jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
*/
jar/org/springframework/web/servlet/mvc/condition/ConsumesRequestCondition.java
*/
jar/org/springframework/web/servlet/view/AbstractView.java
*/
jar/org/springframework/web/servlet/config/AnnotationDrivenBeanDefinitionParser.java
*/
jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
*/
jar/org/springframework/web/servlet/tags/form/TextareaTag.java
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jar/org/springframework/web/servlet/tags/ParamAware.java
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jar/org/springframework/web/servlet/mvc/UrlFilenameViewController.java
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jar/org/springframework/web/servlet/config/annotation/DefaultServletHandlerConfigurer.java
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jar/org/springframework/web/servlet/view/xml/MarshallingView.java
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* /opt/cola/permits/1110676884_1606843964.15/0/spring-webmvc-4-0-2-release-sources-1.jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java
* /opt/cola/permits/1110676884_1606843964.15/0/spring-webmvc-4-0-2-release-sources-1.jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java
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* /opt/cola/permits/1110676884_1606843964.15/0/spring-webmvc-4-0-2-release-sources-1.jar/org/springframework/web/servlet/mvc/support/AnnotationControllerTypePredicate.java

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1.2481 spring-boot-starter-web

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-- activemq-xmpp

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-- activemq-web

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To apply the Apache License to your work, attach the following
1.2484 icu4j 2.6.1
1.2484.1 Available under license:

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# Telugu-InterIndic
#: NFD (NFC)
\u0c46\u0c4d\u0c56>\ue048\ue04d;
\u0c46\u0c56>\ue048; # VOWEL SIGN AI
\u0c01>\ue001;  # SIGN CANDRABINDU
\u0c02>\ue002;  # SIGN ANUSVARA
\u0c03>\ue003;  # SIGN VISARGA
\u0c05>\ue005;  # LETTER A
\u0c06>\ue006;  # LETTER AA
\u0c07>\ue007;  # LETTER I
\u0c08>\ue008;  # LETTER II
\u0c09>\ue009;  # LETTER U
\u0c0a>\ue00a;  # LETTER UU
\u0c0b>\ue00b;  # LETTER VOCALIC R
\u0c0c>\ue00c;  # LETTER VOCALIC L
\u0c0e>\ue00e;  # LETTER E
\u0c0f>\ue00f;  # LETTER EE
\u0c10>\ue010;  # LETTER AI
\u0c12>\ue012;  # LETTER O
\u0c13>\ue013;  # LETTER OO
\u0c14>\ue014;  # LETTER AU
\u0c15>\ue015;  # LETTER KA
\u0c16>\ue016;  # LETTER KHA
\u0c17>\ue017;  # LETTER GA
\u0c18>\ue018;  # LETTER GHA
\u0c19>\ue019;  # LETTER NGA
\u0c1a>\ue01a;  # LETTER CA
\u0c1b>\ue01b;  # LETTER CHA
\u0c1c>\ue01c;  # LETTER JA
\u0c1d>\ue01d;  # LETTER JHA

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rod.johnson@interface21.com or juergen.hoeller@interface21.com.
\u0C6B>\uE06B;  # DIGIT FIVE
\u0C6C>\uE06C;  # DIGIT SIX
\u0C6D>\uE06D;  # DIGIT SEVEN
\u0C6E>\uE06E;  # DIGIT EIGHT
\u0C6F>\uE06F;  # DIGIT NINE
#    :: NFC (NFD) ;
# eof

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
jar/com/ibm/icu/impl/data/Transliterator_Telugu_InterIndic.txt
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#----------------------------------------------------------------------------------
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#----------------------------------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Any_Publishing.txt,v $
# $Date: 2001/10/23 00:23:46 $
# $Revision: 1.4 $
#----------------------------------------------------------------------------------

# Test case
# "The" "(quick)" '(brown)' `fox` ` jumped -- "over?"

# Variables

$single = \\
$space = " \\
$double = " \\
$back = " \\
$tab = \u0008 \\
$makeRight = [[[:Z::][:Ps::][:Pi::]:]$ \\

# fix UNIX quotes

$back $back > " \\
$back > " \\

# fix typewriter quotes, by context

$makeRight [$double] <> " \\
$double <> " \\

$makeRight [$single] <> \\
$single <> \\

# fix multiple spaces and hyphens
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# This reverses the Thai LogicalOrderException vowels, and does (part of) spaces
# The rules that convert space into semicolon are in another file;
# since they have to come BEFORE the break iterator

$thai = [[[:thai:]] \u0E01-\u0E3A\u0E40-\u0E5B];

# First convert the semicolon back

'' < $thai { ;' } $thai;

# Remove any other spaces between thai letters

< $thai { '' } $thai;

# Now vowels
$thai_reversing = [[:Logical_Order_Exception:] & $thai];
$thai_non_reversing = [$thai - $thai_reversing ];

( $thai_reversing ) ( $thai_non_reversing ) > $2 $1;
# other direction
$2 $1 < ( $thai_non_reversing ) ( $thai_reversing );

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# Copyright (c) 1999-2001, International Business Machines
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# InterIndic-Bengali
#
:: NFD (NFC) :
\uE001>\u0981;   # SIGN CANDRABINDU
\uE002>\u0982;   # SIGN ANUSVARA
\uE003>\u0983;   # SIGN VISARGA
\uE005>\u0985;   # LETTER A
\uE006>\u0986;   # LETTER AA
\uE007>\u0987;   # LETTER I
\uE008>\u0988;   # LETTER II
\uE009>\u0989;   # LETTER U
\uE00A>\u098A;   # LETTER UU
\uE00B>\u098B;   # LETTER VOCALIC R
\uE00C>\u098C;   # LETTER VOCALIC L
\uE00D>\u098D;   # FALLBACK
\uE00E>\u098E;   # FALLBACK
\uE00F>\u098F;   # LETTER E
\uE010>\u0990;   # LETTER AI
\uE011>\u0991;   # FALLBACK
\uE012>\u0992;   # FALLBACK
\uE013>\u0993;   # LETTER O
\uE014>\u0994;   # LETTER AU
\uE015>\u0995;   # LETTER KA
\uE016>\u0996;   # LETTER KHA
\uE017>\u0997;   # LETTER GA
\uE018>\u0998;   # LETTER GHA
\uE019>\u0999;   # LETTER NGA
\uE01A>\u099A;   # LETTER CA
\uE01B>\u099B;   # LETTER CHA
\uE01C>\u099C;   # LETTER JA
\uE01D>\u099D;   # LETTER JHA
\uE01E>\u099E;   # LETTER NYA
\uE01F>\u099F;   # LETTER TTA
\uE020>\u099A;   # LETTER TTHA
\uE021>\u099B;   # LETTER DDA
\uE022>\u099C;   # LETTER DDHA
\uE023>\u099D;   # LETTER NNA
\uE024>\u099E;   # LETTER TA
\uE025>\u099F;   # LETTER THA
\uE026>\u099A;   # LETTER DA
\uE027>\u099B;   # LETTER DHA
\uE028>\u099C;   # LETTER NA
\uE029>\u099D>\u099E;   # REMAP (indicExceptions.txt): \u09a9>\u09a8 = LETTER NNNA>LETTER NA
\u05C>\u09A1\u09BC;  # FALLBACK
\u05D>\u09A2\u09BC;  # LETTER RHA
\u05E>\u09AB\u09BC;  # REMAP (indicExceptions.txt); \u09de>\u09ab = LETTER FA>LETTER PHA
\u05F>\u09AF\u09BC;  # LETTER YYA
\u060>\u09E0;          # LETTER VOCALIC RR
\u061>\u09E1;          # LETTER VOCALIC LL
\u062>\u09E2;          # VOWEL SIGN VOCALIC L
\u063>\u09E3;          # VOWEL SIGN VOCALIC LL
\u064>\u0964;          # DANDA
\u065>\u0965;          # DOUBLE DANDA
\u066>\u09E6;          # DIGIT ZERO
\u067>\u09E7;          # DIGIT ONE
\u068>\u09E8;          # DIGIT TWO
\u069>\u09E9;          # DIGIT THREE
\u06A>\u09EA;          # DIGIT FOUR
\u06B>\u09EB;          # DIGIT FIVE
\u06C>\u09EC;          # DIGIT SIX
\u06D>\u09ED;          # DIGIT SEVEN
\u06E>\u09EE;          # DIGIT EIGHT
\u06F>\u09EF;          # DIGIT NINE
\ue070>;                # ABBREVIATION SIGN
\ue071>\u09F0;        # LETTER RA WITH MIDDLE DIAGONAL
\ue072>\u09F1;        # LETTER RA WITH LOWER DIAGONAL
\ue073>\u09F2;        # RUPEE MARK
\ue074>\u09F3;        # RUPEE SIGN
\ue075>\u09F4;        # CURRENCY NUMERATOR ONE
\ue076>\u09F5;        # CURRENCY NUMERATOR TWO
\ue077>\u09F6;        # CURRENCY NUMERATOR THREE
\ue078>\u09F7;        # CURRENCY NUMERATOR FOUR
\ue079>\u09F8;        # CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR
\ue07A>\u09F9;        # CURRENCY DENOMINATOR SIXTEEN
\ue07B>\u09FA;        # ISSHAR
\ue07C;              # TIPPI
\ue07D;              # ADDAK
\ue07E;              # IRI
\ue07F;              # URA
\ue080;              # EK ONKAR

0 > \u09E6;  # FALBACK FOR TAMIL
1 > \u09E7;
Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
jar/com/ibm/icu/impl/data/Transliterator_InterIndic_Bengali.txt
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# InterIndic-Latin
#$ue00 reserved
#consonants
$chandrabindu=$ue001;
$anusvara=$ue002;
$visarga=$ue003;
#$ue004 reserved
# w<vowel> represents the stand-alone form
$wa=$ue005;
$waa=$ue006;
$wi=$ue007;
$wii=$ue008;
$wu=$ue009;
$wuu=$ue00a;
$wr=$ue00b;
$wl=$ue00c;
$wce=$ue00d; # LETTER CANDRA E
$wse=$ue00e; # LETTER SHORT E
$we=$ue00f; # $ue09f LETTER E
$wai=$ue010;
$wco=$ue011; # LETTER CANDRA O
$wso=$ue012; # LETTER SHORT O
$wo=$ue013; # $ue0913 LETTER O
$wau=$ue014;
$ka=$ue015;
$kha=$ue016;
$ga=$ue017;
$gha=$ue018;
$nga=\ue019;
$ca=\ue01a;
$cha=\ue01b;
$ja=\ue01c;
$ha=\ue01d;
$nya=\ue01e;
$sta=\ue01f;
$tha=\ue020;
$dda=\ue021;
$ddha=\ue022;
$enna=\ue023;
$ta=\ue024;
$da=\ue025;
$dha=\ue027;
$na=\ue028;
$ena=\ue029; #compatibility
$pa=\ue02a;
$pha=\ue02b;
$ba=\ue02c;
$bha=\ue02d;
$ma=\ue02e;
$ya=\ue02f;
$ra=\ue030;
$rra=\ue031;
$la=\ue032;
$lla=\ue033;
$ela=\ue034; #compatibility
$va=\ue035; #compatibility
$sha=\ue036;
$ssa=\ue037;
$sa=\ue038;
$ha=\ue039;
#\u093a Reserved
#\u093b Reserved
$snukta=\ue03c;
$savagraha=\ue03d; # SIGN AVAGRAHA
# <vowel> represents the dependent form
$aa=\ue03e;
$i=\ue03f;
$ii=\ue040;
$u=\ue041;
$uu=\ue042;
$rh=\ue043;
$lh=\ue044;
$ce=\ue045; #VOWEL SIGN CANDRA E
$se=\ue046; #VOWEL SIGN SHORT E
$e=\ue047;
$\text{ai}=\text{\ue048};$
$\text{co}=\text{\ue049};$ # VOWEL SIGN CANDRA O
$\text{so}=\text{\ue04a};$ # VOWEL SIGN SHORT O
$\text{o}=\text{\ue04b};$ # \text{\u094b}
$\text{au}=\text{\ue04c};$
$\text{virama}=\text{\ue04d};$
# \text{\u094e} Reserved
# \text{\u094f} Reserved
$\text{om}=\text{\ue050};$ # OM
$\text{\ue051}>;$ # UNMAPPED STRESS SIGN UDATTA
$\text{\ue052}>;$ # UNMAPPED STRESS SIGN ANUDATTA
$\text{\ue053}>;$ # UNMAPPED GRAVE ACCENT
$\text{\ue054}>;$ # UNMAPPED ACUTE ACCENT
$\text{lm} = \text{\ue055};$ # Telugu Length Mark
$\text{sailm}=\text{\ue056};$ # AI Length Mark
$\text{saulm}=\text{\ue057};$ # AU Length Mark
#urdu compatibility forms
$\text{suka}=\text{\ue058};$
$\text{sukha}=\text{\ue059};$
$\text{sgha}=\text{\ue05a};$
$\text{sujha}=\text{\ue05b};$
$\text{sguddha}=\text{\ue05c};$
$\text{sgudha}=\text{\ue05d};$
$\text{sufa}=\text{\ue05e};$
$\text{sgya}=\text{\ue05f};$
$\text{swrr}=\text{\ue060};$
$\text{swll}=\text{\ue061};$
$\text{ssrrh}=\text{\ue062};$
$\text{sslh}=\text{\ue063};$
$\text{sdanda}=\text{\ue064};$
$\text{doubleDanda}=\text{\ue065};$
$\text{zero}=\text{\ue066};$ # DIGIT ZERO
$\text{one}=\text{\ue067};$ # DIGIT ONE
$\text{two}=\text{\ue068};$ # DIGIT TWO
$\text{three}=\text{\ue069};$ # DIGIT THREE
$\text{four}=\text{\ue06a};$ # DIGIT FOUR
$\text{five}=\text{\ue06b};$ # DIGIT FIVE
$\text{six}=\text{\ue06c};$ # DIGIT SIX
$\text{seven}=\text{\ue06d};$ # DIGIT SEVEN
$\text{eight}=\text{\ue06e};$ # DIGIT EIGHT
$\text{nine}=\text{\ue06f};$ # DIGIT NINE

# \text{\u0970}>; # UNMAPPED ABBREVIATION SIGN
$\text{depVowelAbove}=\text{[\ue03e-\ue040\ue045-\ue04c]};$
$\text{depVowelBelow}=\text{[\ue041-\ue044]};$
# $x$ was originally called ‘&’; $z$ was ‘%’
$\text{x}=[\text{\saa}\text{\sai}\text{\asu}\text{\sii}\text{\si}\text{\s\rr}\text{\s\rrh}\text{\s\llh}\text{\s\llh}\text{\s\llh}\text{\s\ce}\text{\s\se}\text{\s\so}\text{\s\so}\text{\s\co}];$
$\text{z}=[\text{\bcdefghijklmnopqrstuvwxyz}];
$vowels=[aeiou\u0304\u0325\u0306];
$forceIndependentMatra = ['\u0300-\u034c’];

# convert from Native letters to Latin letters

#transliterations for anusvara
$anusvara] [Ska$kh$g$S$S$S$S$S$S$S$S
$anusvara] [Sca$cha$ja$sha$S$S$S
$anusvara] [Sth$Sd$S$d$S$S$S$S$S
$anusvara] [St$Sd$Sd$S$d$S$S
$anusvara] [Sp$a$S$S$b$S$S$S
$anusvara] [Sya$S$S$S$S$S$S$S$S$S

# Urdu compatibility
$ya$\nukta] $x > y\u0307 ;
$ya$\nukta$\virama > y\u0307 ;
$ya$\nukta > y\u0307a ;

$la$\nukta] $x > l\u0331 ;
$la$\nukta$\virama > l\u0331 ;
$la$\nukta > l\u0331a ;

$na$\nukta] $x > n\u0331 ;
$na$\nukta$\virama > n\u0331 ;
$na$\nukta > n\u0331a ;

$ena ]$x > n\u0331 ;
$ena$\virama > n\u0331 ;
$ena > n\u0331a ;
$uka $ka > qa ;
$ka$\nukta] $x > q ;
$ka$\nukta$\virama > q ;
$ka$\nukta > qa ;

$kh$\nukta ]$x > k’u0331h\u0331 ;
$kl$\nukta$\virama > k’u0331h\u0331 ;
$kl$\nukta > k’u0331h\u0331a ;
$ukh$\virama > k’u0331h\u0331 ;
$ukh > k’u0331h\u0331a ;
$ug$\virama > g’u0307a ;
$ga$\nukta] $x > g’u0307 ;
$ga$\nukta$\virama > g’u0307 ;
$ga$\nukta > g’u0307a ;

$ujh > za ;
$ja$\nukta] $x > z ;
$ja$\nukta$\virama > z ;
$ja$\nukta > za ;
$\ddha\nukta$}<x > r\u0331h;
$\ddha\nukta\$\virama> r\u0331h;
$\ddha\nukta$< > r\u0323h;

$\uddha$><x > r\u0331h;
$\uddha\$\virama> r\u0331h;
$\uddha$> r\u0331a;

$\ddha\nukta}$}<x > r\u0323h;
$\ddha\nukta\$\virama> r\u0323h;
$\ddha\nukta$< > r\u0323h;

$\uddha\$<x > f ;
$\uddha\$\virama> f ;
$\uddha$> f a;

$\ph\nukta }<$x > f ;
$\ph\nukta\$\virama> f ;
$\ph\nukta$> f a;

$\ra\nukta}$}<x > r\u0331;
$\ra\nukta\$\virama> r\u0331;
$\ra\nukta$> r\u0331a;

$\lla\nukta}\$}<x > l\u0331;
$\lla\nukta\$\virama> l\u0331;
$\lla\nukta$> l\u0331a;

$\ela}\$<x > l\u0331;
$\ela\$\virama> l\u0331;
$\ela$> l\u0331a;

$\uya}\$<x > y\u0307;
$\uya\$\virama> y\u0307;
$\uya$> y\u0307a;

# normal consonants
$\sha\vira m a]\sha>k'';
$\sha}\$<x > k;
$\sha\vira m a>k;
$\sha$>ka;
$\sha\kha}$}<x > kh;
$\sha\kha\$\virama> kh;
$\sha$>kha;
$\s\ga\vira m a]\sha>g'';
$\s\ga}\$<x > g;
$\s\ga\vira m a>g;
$\s\ga$>ga;
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$a_nna$ $n\backslash u0323a$ 

$taSVirama} $Shna>t$;  
$StaSVirama} $Sttha>t$;  
$SStaSVirama} $SStta>t$;  
$StaSVirama} $SStha>t$;  
$Sta} $S$Sx>t;  
$StaSVirama>t;  
$Sta>ta; 
$Stha} $S$Sx>th;  
$SthaSVirama>th;  
$Stha>tha;  

$SdaSVirama} $Sha>d$;  
$SdaSVirama} $Sdda>d$;  
$SdaSVirama} $Sdda>d$;  
$SdaSVirama} $Sda>th;  
$SdaSVirama>d;  
$Sda>da;  
$Sdda} $S$Sx>dh;  
$SddaSVirama>dh;  
$Sda>tha;  
$SnaSVirama} $Sga>n$;  
$SnaSVirama} $Sya>n$;  
$Sna} $S$x>n;  
$SnaSVirama>n;  
$Sna>na;  

$SpaSVirama} $Sha>p$;  
$Spa} $S$x>p;  
$SpaSVirama>p;  
$Spa>pa;  
$Spha} $S$x>ph;  
$SphaSVirama>ph;  
$Spha>pha;  
$SbaSVirama} $Sha>b$;  
$Sba} $S$x>b;  
$SbaSVirama>b;  
$Sba>ba;  

$bha} $S$x>bh;  
$bhaSVirama>bh;  
$bha>bha;  

$SmaSVirama} $Sma>m$;  

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$\text{ma}$ $x > m$
$\text{ma} \text{virama} > m$
$\text{ma} > \text{ma}$

$\text{ya}$ $x > y$
$\text{ya} \text{virama} > y$
$\text{ya} > \text{ya}$

$\text{ra} \text{virama} > r' ’$
$\text{ra} > \text{ra}$

$\text{rra} \text{virama} > r\text{u}0331 ’$
$\text{rra} > \text{rra}$

$\text{la} \text{virama} > l’$
$\text{la} > \text{la}$

$\text{lla} \text{virama} > l\text{u}0323 ’$
$\text{lla} > \text{lla}$

$\text{va} > \text{va}$
$\text{sa} \text{virama} > s’$
$\text{sa} \text{virama} > s’$
$\text{sa} \text{virama} > s’$
$\text{sa} > \text{sa}$

$\text{sa nukta} > \text{sa} \text{virama} > s\text{u}0301$
$\text{sa nukta} \text{virama} > s\text{u}0301$
$\text{sa nukta} > s\text{u}0301$

$\text{sha} > \text{sha}$

$\text{ssa} > \text{ssa}$

$\text{ha} > \text{ha}$

$\text{for gurmukhi}$

$\text{sa nukta} > \text{sa} \text{virama} > s\text{u}0301$

$\text{sa} \text{virama} > s\text{u}0301$

$\text{sha} > \text{sha}$

$\text{ssa} > \text{ssa}$

$\text{ha} > \text{ha}$
# dependent vowels (should never occur except following consonants)

$forceIndependentMatra{$aa  > \u0314a\u0304       ;
$forceIndependentMatra{$ai  > \u0314ai            ;
$forceIndependentMatra{$au  > \u0314au            ;
$forceIndependentMatra{$ii  > \u0314i\u0304       ;
$forceIndependentMatra{$i   > \u0314i             ;
$forceIndependentMatra{$uu  > \u0314u\u0304       ;
$forceIndependentMatra{$u   > \u0314u             ;
$forceIndependentMatra{$rrh > \u0314r\u0325\u0304 ;
$forceIndependentMatra{$rh  > \u0314r\u0325       ;
$forceIndependentMatra{$llh > \u0314l\u0325\u0304 ;
$forceIndependentMatra{$lh  > \u0314l\u0325       ;
$forceIndependentMatra{$e   > \u0314e\u0304       ;
$forceIndependentMatra{$o   > \u0314o\u0304       ;
$forceIndependentMatra{$ce  > \u0314e\u0306       ;
$forceIndependentMatra{$co  > \u0314o\u0306       ;
$forceIndependentMatra{$se  > \u0314e             ;
$forceIndependentMatra{$so  > \u0314o             ;
$forceIndependentMatra{$nukta  >; # Nukta cannot appear independently or as first character
$forceIndependentMatra{$virama  >; # Virama cannot appear independently or as first character

$aa  > a\u0304       ;
$ai  > ai            ;
$au  > au            ;
$ii  > i\u0304       ;
$i   > i             ;
$uu  > u\u0304       ;
$u   > u             ;
$rrh > r\u0325\u0304 ;
$rh  > r\u0325       ;
$llh > l\u0325\u0304 ;
$lh  > l\u0325       ;
$e   > e\u0304       ;
$o   > o\u0304       ;
$ce  > e\u0306       ;
$co  > o\u0306       ;
$se  > e             ;
$so  > o             ;

# extra vowels
$swaa ] $x > a\u0304a\u0314 ;
$swai ] $x > a\u0314       ;
$swau ] $x > a\u0304       ;
$swii ] $x > i\u0304a\u0314 ;
$swi ] $x > i\u0314       ;
$swuu ] $x > u\u0304a\u0314 ;
$\text{wu} \ x > \text{uu0314} \ ;$
$\text{wrr} \ x > \text{ru0325uu0304uu0314} \ ;$
$\text{wr} \ x > \text{ru0325uu0314} \ ;$
$\text{wll} \ x > \text{lu0325uu0304uu0314} \ ;$
$\text{wl} \ x > \text{lu0325uu0314} \ ;$
$\text{we} \ x > \text{eu0304uu0314} \ ;$
$\text{wo} \ x > \text{olu0304uu0314} \ ;$
$\text{wa} \ x > \text{alu0314} \ ;$

# extra vowels
$\text{wce} \ x > \text{eu0306uu0314} \ ;$
$\text{wco} \ x > \text{olu0306uu0314} \ ;$
$\text{wse} \ x > \text{eu0314} \ ;$
$\text{wso} \ x > \text{olu0314} \ ;$
$\text{om} \ x > \text{omuu0314} \ ;$

# independent vowels when preceded by vowels
$\text{vowels[Swaa} \ x > \text{aau0304} \ ;$
$\text{vowels[Swai} \ x > \text{ai} \ ;$
$\text{vowels[Swau} \ x > \text{au} \ ;$
$\text{vowels[Swii} \ x > \text{au0304} \ ;$
$\text{vowels[Swi} \ x > \text{i} \ ;$
$\text{vowels[Swuu} \ x > \text{uau0304} \ ;$
$\text{vowels[Swu} \ x > \text{u} \ ;$
$\text{vowels[Swrr} \ x > \text{ru0325uu0304} \ ;$
$\text{vowels[Swr} \ x > \text{ru0325} \ ;$
$\text{vowels[Swll} \ x > \text{lu0325uu0304} \ ;$
$\text{vowels[Swl} \ x > \text{lu0325} \ ;$
$\text{vowels[Swe} \ x > \text{eu0304} \ ;$
$\text{vowels[Swo} \ x > \text{olu0304} \ ;$
$\text{vowels[Swa} \ x > \text{alu0314} \ ;$

# extra vowels
$\text{vowels[Swce} \ x > \text{eu0306} \ ;$
$\text{vowels[Swco} \ x > \text{olu0306} \ ;$
$\text{vowels[Swse} \ x > \text{e} \ ;$
$\text{vowels[Swso} \ x > \text{o} \ ;$

# independent vowels (otherwise)
$\text{swa} > \text{alu0304} \ ;$
$\text{swai} > \text{ai} \ ;$
$\text{swau} > \text{au} \ ;$
$\text{swii} > \text{lu0304} \ ;$
$\text{swi} > \text{i} \ ;$
$\text{swuu} > \text{uau0304} \ ;$
$\text{swu} > \text{u} \ ;$
$\text{swrr} > \text{ru0325uu0304} \ ;$
$\text{swr} > \text{ru0325} \ ;$
$\text{swll} > \text{lu0325uu0304} \ ;$
$\text{swl} > \text{lu0325} ;$

---

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$we > e\u0304
$wo > o\u0304
$wa > a
#extra vowels
$wce > e\u0306
$wco > o\u0306
$wse > e
$wso > o
$om > "om

#stress marks
$avagraha > \u0315;
$chandrabinduSanusvara>\u0303;
$chandrabindu > m\u0310;
$visarga>h\u0323;
#numbers
$zero > 0;
$one > 1;
$two > 2;
$three > 3;
$four > 4;
$five > 5;
$six > 6;
$seven > 7;
$eight > 8;
$nine > 9;
$lm >;
$sailm >;
$saulm >;
$\ue070>; # ABBREVIATION SIGN
# LETTER RA WITH MIDDLE DIAGONAL
\ue071>$x>ra;
\ue071>$virama>r;
\ue071>ra;
# LETTER RA WITH LOWER DIAGONAL
\ue072>$x>ra;
\ue072>$virama>r;
\ue072>ra;
\ue073>; # RUPEE MARK
\ue074>; # RUPEE SIGN
\ue075>; # CURRENCY NUMERATOR ONE
\ue076>; # CURRENCY NUMERATOR TWO
\ue077>; # CURRENCY NUMERATOR THREE

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\ue078>; # CURRENCY NUMERATOR FOUR
\ue079>; # CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR
\ue07A>; # CURRENCY DENOMINATOR SIXTEEN
\ue07B>; # ISSHAR
\uE07C>; # TIPPI
\uE07D>; # ADDAK
\uE07E>; # IRI
\uE07F>; # URA
\uE080>; # EK ONKAR

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2.6-1.jar/com/ibm/icu/impl/data/Transliterator_InterIndic_Latin.txt

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#-----------------------------------------------
# Copyright (c) 1999-2001, International Business Machines
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#-----------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Latin_Katakana.txt,v $
# $Date: 2001/12/03 02:10:26 $
# $Revision: 1.19 $
#-----------------------------------------------

# note: a global filter is more efficient, but MUST include all source chars
#:: [\u0000-\u007E \u3001\u3002 \u3099-\u309C \u30A1-\u30FC \uFF61-\uFF9F [:Latin:] [:Katakana:] [:nonspacing mark:] ] ;
### WARNING -- must add width filter, both here and below!!! ###
:: [\u1100-\u1112\u111A\u1121\u1160-\u1175\u11AA\u11AC\u11AD\u11B0-\u11B5\u2190-\u2193\u2502\u25A0\u25CB\u3000-\u3002\u300C-\u300D\u3099-\u309C\u30A1-\u30ED\u30EF\u30F2-\u30F4\u30F7\u30FA-\u30FC\uFF01-\uFF9F\uFFE0-\uFFE6][',.A-Za-z~\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u010F-\u0125\u0128-\u0130\u0134-\u0137\u0139-\u013E\u0143-\u0148\u014C-\u0151\u0154-\u0165\u0168-\u017E\u01A0-\u01A1\u01A3-\u01B0\u01CD-\u01DC\u01DE-\u01E3\u01E6-\u01ED\u01F0\u01F4-\u01F5\u01F8-\u021B\u021E-\u021F\u0226-\u0233\u0304-\u04E2-\u04E4\u04EE-\u04EF\u1E00-\u1E99\u1EA0-\u1EF9\u1FB1-\u1FB9\u1FD1-\u1FE9\u2122-\u212B] ] ;
:: [:Latin:] fullwidth-halfwidth () ;
:: NFC (NFC);
:: Lower () ; # whenever transliterating from cased to uncased script, include this
# :: NFD () ; # this would catch the odd cases where a lowercase is not in NFD, but none are important for Japanese

# Uses modified Hepburn. Small changes to make unambiguous.

# | Kunrei-shiki: Hepburn/MHepburn
# |-------------------------------
# | si: shi
# | si ~ya: sha
# si ~yu: shu
# si ~yo: sho
# zi: ji
# zi ~ya: ja
# zi ~yu: ju
# zi ~yo: jo
# ti: chi
# ti ~ya: cha
# ti ~yu: chu
# ti ~yu: cho
# tu: tsu
# di: ji/dji
# du: zu/dzu
# hu: fu

# For foreign words:
# -----------------
# se ~i si
# si ~e she
# zi ~i zi
# zi ~e je
# te ~i ti
# ti ~e che
# te ~u tu
# de ~i di
# de ~u du
# de ~i di
# he ~u: hu
# hu ~a fa
# hu ~i fi
# hu ~e he
# hu ~o ho

# Most small forms are generated, but if necessary
# explicit small forms are given with ~a, ~ya, etc.

#------------------------------------------------------
# Variables

$vowel = [aeiou] ;
$consonant = [bcdfghjklmnpqrstvwxyz] ;
$macron = \u0304 ;

# Variables used for doubled-consonants with tsu
$kana = [\u3041-\u3094] ;

$voice = [\u3099\u309B];
$semivoice = [\u309A\u309C];

$k_start = [];

$s_start = [] ;

$j_start = [] $voice ;

$t_start = [] ;

$n_start = [] ;

$h_start = [] ;
$m_start = [] ;

$y_start = [] ;

$r_start = [] ;

$w_start = [] ;

$v_start = [] ;

# if is followed by $n_quoter, then it needs an
# apostrophe after its romaji form to disambiguate it.
# e.g., ! = , so represent as "n'a", not "na".

$n_quoter = [ ] ;

$small_y = [] ;

$iteration = \u309D ;

#------------------------------------------------------
# katakana rules

# Punctuation

" " <> ;
" " <> ;

# apostrophe before latin

# insert spaces before hiragana

# Iteration Mark
# Copy previous letter & marks

# TODO
# $ | $1 $1 < ($kana [:M:]$voice$semivoice?) $iteration

# Specials for katakana -- not shared with hiragana

va <> ;
vi <> ;
ve <> ;
vo <> ;
'~ka' <> ;
'~ke' <> ;

# ~~~ begin shared rules ~~~

# special
ya < '~';
yi < '~';
yu < '~';
ye < '~';
yo < '~';

#normal
a <> ;
b | '~-’ < } $small_y ;
by } $vowel > | '~-y' ;

ba <> ;
bi <> ;
bu <> ;
be <> ;
bo <> ;

c } i > | s ;
c } e > | s ;

da <> ;
di <> ;
du <> ;
de <> ;
do <> ;
dzu <> ;
dja < ;
dji~i' < ; # liu
dju < ;
dje < ;
djo < ;
dji << ;
dj } $vowel > | '~y' ;

# TODO: QUESTION: use instead of dj, dz

cha < ;
chi~i' < ; # liu
chu < ;
che < ;
cho < ;
chi <> ;
ch } $vowel > | '~y' ;

e <> ;

g | '~' < } small_y ;
gy } $vowel > | '~y' ;

ga <> ;
gi <> ;
gu <> ;
ge <> ;
go <> ;
i <> ;

# j } $vowel > | '~y' ;

ja <> ;
jii'i' < ; # liu
ju <> ;
jje <> ;
jo <> ;
jii <> ;

k | '~' < } small_y ;
ky } $vowel > | '~y' ;

ka <> ;
ki <> ;
ku <> ;
ke <> ;
ko <> ;
m | '¬' < ] $small_y ;
my ] $vowel > | '¬y' ;

ma <> ;
mi <> ;
mu <> ;
me <> ;
mo <> ;

m ] [pbfv] > : 

n | '¬' < ] $small_y ;
ny ] $vowel > | '¬y' ;

na <> ;
ni <> ;
nu <> ;
ne <> ;
no <> ;

o <> ;

p | '¬' < ] $small_y ;
py ] $vowel > | '¬y' ;

pa <> ;
pi <> ;
pu <> ;
pe <> ;
po <> ;

h | '¬' < ] $small_y ;
hy ] $vowel > | '¬y' ;

ha <> ;
hi <> ;
hu <> ;
he <> ;
ho <> ;

# f | '¬' < ] $small_y ;
# f ] $vowel > | '¬' ;

fa <> ;
fi <> ;
fe <> ;
fo <> ;
# w | $vowel > | '~' |

wa <> ;
wi <> ;
wu > ;
we <> ;
wo <> ;

ya <> ;
iy > ;
yu <> ;
ye > ;
yo <> ;

# double consonants

# specials
s | sh > ;
t | ch > ;

# voiced
j | j <> | $j_start ;
b | b <> | [Sh_start$F_start] $voice ;
d | d <> | $t_start $voice ;
g | g <> | $k_start $voice ;
p | p <> | [Sh_start$F_start] $semivoice ;
# v | v <> | [] $voice ;
z | z <> | $s_start $voice ;
v | v <> | $v_start ;

# normal
k | k <> | $k_start ;
m | m <> | $m_start ;
n | n <> | $n_start ;
h | h <> | $h_start ;
f | f <> | $f_start ;
r | r <> | $r_start ;
t | t <> | $t_start ;
s | s <> | $s_start ;

w | w <> | $w_start ;
y | y <> | $y_start ;

# completeness
x | x > ;
c } k > ;
c } c > ;
c } q > ;
1 } l > ;
q } q > ;
# y } y > ;
# w } w > ;

# prolonged vowel mark. this indicates a doubling of
# the preceding vowel sound

#a < a { ; # liu
#e < e { ; # liu
#i < i { ; # liu
#o < o { ; # liu
#u < u { ; # liu

$macron <> ;

# small forms

'~a' <> ;
'~i' <> ;
'~u' <> ;
'~e' <> ;
'~o' <> ;
'~tsu' <> ;
'~wa' <> ;
'~ya' <> ;
'~yi' > ;
'~yu' <> ;
'~ye' > ;
'~yo' <> ;

# iteration marks
# TODO: make more accurate

j $1 < sh (y* $vowel) {$voice ;
dj $1 < ch (y* $vowel) {$voice ;
dz $1 < ts (y* $vowel) {$voice ;

g $1 < k (y* $vowel) {$voice ;
z $1 < s (y* $vowel) {$voice ;
d $1 < ts (y* $vowel) {$voice ;
h $1 < b (y* $vowel) {$voice ;
v $1 < w (y* $vowel) {$voice ;

sh $1 < sh (y* $vowel) {$voice ;
j $1 < (y* $vowel) { $voice ;
ch $1 < ch (y* $vowel) { $voice ;
dj $1 < dj(y* $vowel) { $voice ;
ts $1 < ts (y* $vowel) { $voice ;
dz $1 < dz (y* $vowel) { $voice ;

$1 < ($consonant y* $vowel) { $voice? ;
$1 < (.) { $voice? ; # otherwise repeat last character
< $voice? ; # delete if no characters found

# h- rule: lengthens vowel if not followed by a vowel

[aeiou] h > ;

# one-way latin- > kana rules. these do not occur in
# well-formed romaji representing actual japanese text.
# their purpose is to make all romaji map to kana of
# some sort.

# the following are not really necessary, but produce
# slightly more natural results.

cy > ;
dy > ;
hy > ;
sy > ;
ty > ;
zy > ;

h > ;

# isolated consonants listed here so as not to mask
# longer rules above.

ch > ;
sh > ;
dz > ;
dj > ;

b > ;
d > ;
g > ;
k > ;
m > ;
n" < } $n_quoter ;
n <> ;
p > ;
r > ;
# simple substitutions using backup

c > | k ;
l > | r ;
q > | k ;
x > | ks ;

# ~~~ END shared rules ~~~

# Final cleanup

'~' > ; # delete stray tildes between letters
[:Katakana:] { " } [:Latin:] > ; # delete stray quotes between letters
# [u02BE][\Nonspace Mark:][u03099-u0309C] > ; # delete any non-spacing marks that we didn't use

:: NFC (NFD) ;
:: ([Katakana:] halfwidth-fullwidth);

# note: a global filter is more efficient, but MUST include all source chars!!
#: ([u0000-u007E u03001-u3002 u30099-u309C u30A1-u30FC uFF61-uFF9F [:Latin:][:Katakana:][\Nonspace mark:]]);

# MINIMAL FILTER GENERATED FOR: Latin-Katakana BACKWARD
:: ([ !--u00A2-u00A3u00A5--u00A6u00ACu0304u20A9uFF61-uFFBEuFFC2-uFFC7uFFCA-
\uFFCFuFFD2-uFFD7uFFDA-uFFDCuFFE8-uFFE][~u3001-
\u3002zu304Cu304Ezu3050zu3052zu3054zu3056zu3058zu305Au305Cu305Ezu3060zu3062zu3065zu3067zu3069zu3070-
u3071u3073u3074u3076u3077u3079u307Au307Cu307Du3094u3099u309Bu309Eu30A1-
\u30FAu30FCu30FE] ) ;

# eof

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#-------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Tamil_InterIndic.txt,v $
# $Date: 2002/07/25 21:20:26 $
# $Revision: 1.8 $
#-------------------------------

# Tamil-InterIndic
#: NFD (NFC)

\u0BC6\u0BBE>\uE04A; # VOWEL SIGN O
\u0BC7\u0BBE>\uE04B; # VOWEL SIGN OO
\u0BC6\u0BD7>\uE04C; # VOWEL SIGN AU
\u0B92\u0BD7>\uE014; # LETTER AU

\u0B82>\uE002; # SIGN ANUSVARA
\u0B83>\uE003; # SIGN VISARGA
\u0B85>\uE005; # LETTER A
\u0B86>\uE006; # LETTER AA
\u0B87>\uE007; # LETTER I
\u0B88>\uE008; # LETTER II
\u0B89>\uE009; # LETTER U
\u0B8A>\uE00A; # LETTER UU
\u0B8E>\uE00E; # LETTER E
\u0B8F>\uE00F; # LETTER EE
\u0B90>\uE010; # LETTER AI
\u0B92>\uE012; # LETTER O
\u0B93>\uE013; # LETTER OO
\u0B94>\uE014; # LETTER AU
\u0B95>\uE015; # LETTER KA
\u0B99>\uE019; # LETTER NGA
\u0B9A>\uE01A; # LETTER CA
\u0B9C>\uE01C; # LETTER JA
\u0B9E>\uE01E; # LETTER NYA
\u0B9F>\uE01F; # LETTER TTA
\u0BA3>\uE023; # LETTER NNA
\u0BA4>\uE024; # LETTER TA
\u0BA8>\uE028; # LETTER NA
\u0BA9>\uE029; # LETTER NNNA
\u0BAA>\uE02A; # LETTER PA
\u0BAE>\uE02E; # LETTER MA
\u0BAF>\uE02F; # LETTER YA
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\u0BB0\uE030; # LETTER RA
\u0BB1\uE031; # LETTER RRA
\u0BB2\uE032; # LETTER LA
\u0BB3\uE033; # LETTER LLA
\u0BB4\uE034; # LETTER LLLA
\u0BB5\uE035; # LETTER VA
\u0BB7\uE037; # VOWEL SIGN AA
\u0BBF\uE03F; # VOWEL SIGN I
\u0BC0\uE040; # VOWEL SIGN II
\u0BC1\uE041; # VOWEL SIGN U
\u0BC2\uE042; # VOWEL SIGN UU
\u0BC6\uE046; # VOWEL SIGN E
\u0BC7\uE047; # VOWEL SIGN EE
\u0BC8\uE048; # VOWEL SIGN AI
\u0BCD\uE04D; # SIGN VIRAMA
\u0BE7\uE067; # AU LENGTH MARK
\u0BE8\uE068; # DIGIT ONE
\u0BE9\uE069; # DIGIT TWO
\u0BEA\uE06A; # DIGIT THREE
\u0BEE\uE06E; # DIGIT EIGHT
\u0BEF\uE06F; # DIGIT NINE
\u0BF0\uE067\uE066; # UNMAPPED Tamil-InterIndic: NUMBER TEN
\u0BF1\uE067\uE066\uE066; # UNMAPPED Tamil-InterIndic: NUMBER ONE HUNDRED
\u0BF2\uE067\uE066\uE066\uE066; # UNMAPPED Tamil-InterIndic: NUMBER ONE THOUSAND
0\uE066;

# :: NFC (NFD)
#eof

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
jar/com/ibm/icu/impl/data/Transliterator_Tamil_InterIndic.txt

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#----------------------------------------------------------------------------------
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#----------------------------------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_InterIndic_Kannada.txt,v $
# $Date: 2002/09/19 18:11:23 $
# $Revision: 1.10 $
#----------------------------------------------------------------------

# InterIndic-Kannada
#: NFD (NFC):
\ue032\ue03c>\ue0de; # LETTER FA
\ue001>\ue0c82; # REMAP (indicExceptions.txt): \ue0c81>\ue0c82 = SIGN CANDRABINDU>SIGN ANUSVARA
\ue002>\ue0c82; # SIGN ANUSVARA
\ue003>\ue0c83; # SIGN VISARGA
\ue005>\ue0c85; # LETTER A
\ue006>\ue0c86; # LETTER AA
\ue007>\ue0c87; # LETTER I
\ue008>\ue0c88; # LETTER II
\ue009>\ue0c89; # LETTER U
\ue00a>\ue0c8a; # LETTER UU
\ue00b>\ue0c8b; # LETTER VOCALIC R
\ue00c>\ue0c8c; # LETTER VOCALIC L
\ue00d>\ue0c8d; # LETTER E
\ue00e>\ue0c8e; # Fallback
\ue00f>\ue0c8f; # LETTER EE
\ue010>\ue0c90; # LETTER AI
\ue011>\ue0c92; # Fallback
\ue012>\ue0c92; # LETTER O
\ue013>\ue0c93; # LETTER OO
\ue014>\ue0c94; # LETTER AU
\ue015>\ue0c95; # LETTER KA
\ue016>\ue0c96; # LETTER KHA
\ue017>\ue0c97; # LETTER GA
\ue018>\ue0c98; # LETTER GHA
\ue019>\ue0c99; # LETTER NGA
\ue01a>\ue0c9a; # LETTER CA
\ue01b>\ue0c9b; # LETTER CHA
\ue01c>\ue0c9c; # LETTER JA
\ue01d>\ue0c9d; # LETTER JHA
\ue01e>\ue0c9e; # LETTER NYA
\ue01f>\ue0c9f; # LETTER TTA
\ue020>\ue0ca0; # LETTER TTHA
\ue021>\ue0ca1; # LETTER DDA
\ue022>\ue0ca2; # LETTER DDHA
\ue023>\ue0ca3; # LETTER NNA
\ue024>\ue0ca4; # LETTER TA
\ue025>\ue0ca5; # LETTER THA
\ue026>\ue0ca6; # LETTER DA
\ue027>\ue0ca7; # LETTER DHA
\ue028>\ue0ca8; # LETTER NA
\ue029>\ue0ca9; # REMAP (indicExceptions.txt): \ue0ca8>\ue0ca9 = LETTER NNNA>LETTER NA
\ue02a>\ue0ca9; # LETTER PA
\ue02b>\ue0c9b; # LETTER PHA
\ue02c>\u0cac; # LETTER BA
\ue02d>\u0cad; # LETTER BHA
\ue02e>\u0cae; # LETTER MA
\ue02f>\u0caf; # LETTER YA
\ue030>\u03c>\u0cb1; # LETTER RA
\ue031>\u0cb1; # LETTER RRA
\ue032>\u0cb2; # LETTER LA
\ue033>\u0cb3; # LETTER LLA
\ue034>\u0cb4; # REMAP (indicExceptions.txt): \u0cb4>\u0cb3 = LETTER LLLA>LETTER LLA
\ue035>\u0cb5; # LETTER VA
\ue036>\u0cb6; # LETTER SHA
\ue037>\u0cb7; # LETTER SSA
\ue038>\u0cb8; # LETTER SA
\ue039>\u0cb9; # LETTER HA
\ue03c; # FALBACK BLOW AWAY NUKTA
\ue03d; # FALBACK BLOW AWAY AVAGRAHA
\ue03e>\u0cb0; # VOWEL SIGN AA
\ue03f>\u0cc0; # VOWEL SIGN I
\ue040>\u0cc1; # VOWEL SIGN U
\ue041>\u0cc2; # VOWEL SIGN UU
\ue042>\u0cc3; # VOWEL SIGN VOCALIC R
\ue043>\u0cc4; # VOWEL SIGN VOCALIC RR
\ue044>\u0cc5; # REMAP (indicExceptions.txt): \u0cc5>\u0cc6 = VOWEL SIGN CANDRA E>VOWEL SIGN E
\ue045>\u0cc6; # VOWEL SIGN E
\ue046>\u0cc7; # VOWEL SIGN EE
\ue047>\u0cc8; # VOWEL SIGN AI
\ue048>\u0cc9; # VOWEL SIGN O
\ue049>\u0cca; # REMAP (indicExceptions.txt): \u0cca>\u0cc9 = VOWEL SIGN CANDRA O>VOWEL SIGN O
\ue04a>\u0ccb; # VOWEL SIGN OO
\ue04b>\u0ccc; # VOWEL SIGN AU
\ue04c>\u0ccd; # SIGN VIRAMA
\ue04d>\u0cee; # VOWEL SIGN ANUSVARA
\ue050>\u0cde; # LENGTH MARK
\ue051>\u0cfe; # AI LENGTH MARK
\ue052>\u0ccf; # REMAP (indicExceptions.txt): \u0ccf>\u0cc = AU LENGTH MARK>VOWEL SIGN AU
\ue053>\u0cd7; # FALBACK
\ue054>\u0cd8; # REMAP (indicExceptions.txt): \u0cd8>\u0cd9 = LETTER KHHA>LETTER KHA
\ue055>\u0cd9; # REMAP (indicExceptions.txt): \u0cd9>\u0ce0 = LETTER GHHA>LETTER GA
\ue056>\u0ce1; # REMAP (indicExceptions.txt): \u0ce1>\u0ce2 = LETTER ZA>LETTER JA

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# .................................................................
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# .................................................................
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Hebrew_Latin.txt,v $
# $Date: 2002/07/26 19:56:55 $
# $Revision: 1.4 $
# .................................................................

# Transliteration table for Hebrew
# Based on the UNGEGN table at:
# http://www.eki.ee/wgrs/rom1_he.pdf
#
# Exceptions:
# - Accents are added to disambiguate letters
# - Combinations of dagesh, shin/sin dot that produce different
#   letters are not yet encoded.
#
# To test, open:
# http://oss.software.ibm.com/cgi-bin/icu/tr
# Click Edit, paste in this file, Save As hebrew-latin/XXX
# (where XXX is a username)
# Now go back to the main window, and try it out.
# Use hebrew-latin/XXX for Output 1, and (Inverse) for Output 2
# Paste in hebrew text in Input, and hit Transliterate.
#
# For more information, see"

:: [[:Hebrew:] [\u05B0-\u05B9\u05BB-\u05BC\u05C1-\u05C2\u2135-\u2138\u05BF]] ;
:: nfd (nfc) ;
$letterAfter = [[:M:]]* [[:L:]] ;

# move longer items here to avoid masking

<> h ;
<> z } $letterAfter;
<> z ;
<> s ;
<> t ;

<> ;
<> b ;
<> g ;
<> d ;
<> h ;
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< v ;
< x ;

:: (lower);
:: nfc (nfd) ;
:: ("[[:Latin:] [\u02BB-\u02BC\u0300-\u0302\u0307\u030C\u0327\u0331\u0340-\u0341 ]]);

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
  jar/com/ibm/icu/impl/data/Transliterator_Hebrew_Latin.txt
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#----------------------------------------------------------------------
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#----------------------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Greek_Latin_UNGEGN.txt,v $ 
# $Date: 2002/07/26 16:09:04 $ 
# $Revision: 1.2 $ 
#----------------------------------------------------------------------
# For modern Greek, based on UNGEGN rules.

# Rules are predicated on running NFD first, and NFC afterwards
# MINIMAL FILTER GENERATED FOR: Greek-Latin/UNGEGN
# WARNING: need to add accents to both filters ###
# :: [:µ-ÀÂÈÊÌÎÒÔÙÛàâèêìîòôùû-----------------------------------------];
:: [:[:Greek:][:Mn][:Me:]] [:;?:\u00B7\u037E\u0387];
::NFD (NFC);

# Useful variables
$lower = [:[:latin:][:greek:] & [:Ll:]] ;
$upper = [:[:latin:][:greek:] & [:Lu:]] ;
$accent = [:[:Mn:][:Me:]] ;
$macron = ;
$ddot = ;

$lcgvowel = [] ;
$ucgvowel = [] ;
$g vowel = [$lcgvowel $ucgvowel] ;
$lcgvowelC = [$lcgvowel $accent] ;

$evowel = [aeiouyAEIOUY];
$vowel = [ $evowel $g vowel] ;

$beforeLower = $accent + $lower ;
$gammaLike = [] ;
SegammaLike = [GKXCgkxc] ;
$smooth = ;
$rough = ;
$iotasub = ;
$softener = [$gvowel] ;
$under = ;
$caron = ;

$afterLetter = [:L:] [$\$accent]* ;
$beforeLetter = [$\$accent]* [:L:] ;

# Fix punctuation
# preserve orginal
\: <> \: $under ;
\? <> \? $under ;

\: <> \? ;
· <> \;

# Fix any ancient characters that creep in
> ;
> ;
> ;
$smooth > ;
$rough > ;
$iotasub > ;
> ;

# need to have these up here so the rules don't mask
<> i $under ;
<> I $under ;

} $beforeLower <> Ps ;
<> PS ;
<> ps ;

<> o $under ;
<> O $under;

# at begining or end of word, convert mp to b
[^[:L:]]$accent\{ \> b ;
\}[^[:L:]]$accent \> b ;
[^[:L:]]$accent\{ []\} \> B ;
[]\}[^[:L:]]$accent \> B ;

\< b ;
\< B }$beforeLower ;
\< B ;

# handle diphthongs ending with upsilon

\(< ou ;
\< OU ;
\< Ou ;
\< oU ;

$fmaker = [aeiAEI] $under ;
$shiftForwardVowels = [[[:Mn:]-[\u0308]]]; # note: a diaeresis keeps the items separate

$fmaker \{ ( $shiftForwardVowels )* \} $softener \> $1 v $under ;
$1 < ( $shiftForwardVowels )* v $under ;

$fmaker \{ ( $shiftForwardVowels )* \} \> $1 f $under ;
$1 < ( $shiftForwardVowels )* f $under ;

$fmaker \{ \} $softener \< V $under ;
$fmaker \{ \< U $under ;

\< y ;
\< Y ;

# NORMAL

\< a ;
\< A ;

\< v ;
\< V ;

} $gammaLike \< n } $gammaLike ;
\< g ;
} $gammaLike \< N } $gammaLike ;
\< G ;

\< d ;
\< D ;
<> e ;
<> E ;

<> z ;
<> Z ;

<> th ;
] $beforeLower <> Th ;
<> TH ;

<> i ;
<> I ;

<> k ;
<> K ;

<> l ;
<> L ;

<> m ;
<> M ;

] $gammaLike > n' ;
<> n ;
] $gammaLike <> NV ;
<> N ;

<> x ;
<> X ;

<> o ;
<> O ;

<> p ;
<> P ;

<> r ;
<> R ;

[Pp] { } > V ;
[Pp] { } > V ;

# Caron means exception

# before a letter, initial
] $beforeLetter <> s $under ] $beforeLetter; 
] $beforeLetter <> s ] $beforeLetter;
# otherwise, after a letter = final
$afterLetter {  <> $afterLetter { s $under;
$afterLetter {  <> $afterLetter { s ;

# otherwise (isolated) = initial
<> s $under;
<> s ;

[Pp] {  <> \S ;
<> S ;

<> t ;
<> T ;

<> f ;
<> F ;

<> ch ;
} $beforeLower <> Ch ;
<> CH ;

# Completeness for ASCII

# $ignore = [[:Mark:]''] * ;

| ch < h ;
| k < c ;
| i < j ;
| k < q ;
| b < u } $vowel ;
| b < w } $vowel ;
| y < u ;
| y < w :

| Ch < H ;
| K < C ;
| I < J ;
| K < Q ;
| B < W } $vowel ;
| B < U } $vowel ;
| Y < W ;
| Y < U ;

# Completeness for Greek

> | ;
> | ;
> | ;
# delete any trailing ' marks used for roundtripping

< [] { \ } [Ss] ;
< [] { \ } SegammaLike ;

::NFC (NFD) ;

# MINIMAL FILTER GENERATED FOR: Latin-Greek/UNGEGN BACKWARD
:: ([[:Latin:]][[:Mn:]][[:Me:]] [\/?])

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
  jar/com/ibm/icu/impl/data/Transliterator_Greek_Latin_UNGEGN.txt

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#-----------------------------------------------
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#-----------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_index.txt,v $
# $Date: 2002/09/19 18:11:23 $
# $Revision: 1.40 $
#-----------------------------------------------
#
# TRANSLITERATOR INDEX FILE. This file lists the non-algorithmic
# system transliterators. It allows arbitrary mappings between
# transliterator IDs and file names, and also allows the system to
# define aliases for transliterators, so that "Latin-Hangul", for
# example, can be implemented transparently as the compound
# "Latin-Jamo;Jamo-Hangul". Internal IDs may also be defined; these
# are invisible to the user, but can be composed together by the
# system to create visible transliterators.
#
# Blank lines and lines beginning with '#' are ignored.
#
# Lines in this file have one of the following forms (text not
# enclosed by <> is literal):
# <id>:file:<resource>:<encoding>:<direction>
# <id>:internal:<resource>:<encoding>:<direction>
# <id>:alias:<getInstanceArg>
#
# <id> is the ID of the system transliterator being defined. These
# are public IDs enumerated by Transliterator.getAvailableIDs(),
# unless the second field is "internal".
#
# <resource> is a ResourceReader resource name. Currently these refer
# to file names under com/ibm/text/resources. This string is passed
# directly to ResourceReader, together with <encoding>.
#
# <encoding> is the character encoding to use when reading <resource>;
# passed directly to ResourceReader. E.g., "UTF8".
#
# <direction> is either "FORWARD" or "REVERSE".
#
# <getInstanceArg> is a string to be passed directly to
# Transliterator.getInstance(). The returned Transliterator object
# then has its ID changed to <id> and is returned.
#
# Bidirectional rule files

Fullwidth-Halfwidth:file:Transliterator_Fullwidth_Halfwidth.txt:UTF8:FORWARD
Halfwidth-Fullwidth:file:Transliterator_Fullwidth_Halfwidth.txt:UTF8:REVERSE

Latin-Cyrillic:file:Transliterator_Cyrillic_Latin.txt:UTF8:REVERSE


Latin-Arabic:file:Transliterator_Arabic_Latin.txt:UTF8:REVERSE
Arabic-Latin:file:Transliterator_Arabic_Latin.txt:UTF8:FORWARD

Han-Latin:file:Transliterator_Han_Latin.txt:UTF8:FORWARD
#Latin-Han:file:Transliterator_Han_Latin.txt:UTF8:REVERSE # no round trip!
Latin-Han:alias:null

# Comment these out; they are only for testing
# Latin-Han/definition:file:Transliterator_Han_Latin_Definition.txt:UTF8:REVERSE
# Han-Latin/definition:file:Transliterator_Han_Latin_Definition.txt:UTF8:FORWARD

#Latin-Han/EDICT:file:Transliterator_Han_Latin_EDICT.txt:UTF8:REVERSE
#Han-Latin/EDICT:file:Transliterator_Han_Latin_EDICT.txt:UTF8:FORWARD

---

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Latin-Greek:file:Transliterator_Greek_Latin.txt:UTF8:REVERSE
Greek-Latin:file:Transliterator_Greek_Latin.txt:UTF8:FORWARD

Latin-Greek/UNGEGN:file:Transliterator_Greek_Latin_UNGEGN.txt:UTF8:REVERSE
Greek-Latin/UNGEGN:file:Transliterator_Greek_Latin_UNGEGN.txt:UTF8:FORWARD

Latin-Katakana:file:Transliterator_Latin_Katakana.txt:UTF8:FORWARD

Latin-Hiragana:file:Transliterator_Latin_Hiragana.txt:UTF8:REVERSE

#Thai Stuff: will change if we get \b into Transliterator

Thai-ThaiSemi:internal:Transliterator_Thai_ThaiSemi.txt:UTF8:FORWARD

Thai-ThaiLogical:internal:Transliterator_Thai_ThaiLogical.txt:UTF8:FORWARD
ThaiLogical-Thai:internal:Transliterator_Thai_ThaiLogical.txt:UTF8:REVERSE

ThaiLogical-Latin:internal:Transliterator_ThaiLogical_Latin.txt:UTF8:FORWARD
Latin-ThaiLogical:internal:Transliterator_ThaiLogical_Latin.txt:UTF8:REVERSE

# Must use the order below!
# We need two separate passes because of the Thai vowel reversal
# Thai-Logical also converts spaces to semicolons. That has to be done before we insert latin spaces

Thai-Latin:alias:[[\[:thai:\] \u0e01-\u0e3a\u0e40-\u0e5b\];NFD;Thai-ThaiSemi;Any-BreakInternal;Thai-
ThaiLogical;ThaiLogical-Latin;NFC
Latin-Thai:alias:[[\[:Latin:\]::\[:Me:\] \ \;0-9|~\u00a7\u00ab\u00bb\u02b9\u0374\u2021\u02cc\];NFD;Latin-
ThaiLogical;ThaiLogical-Thai;NFC

# end of Thai Stuff

Hiragana-Katakana:file:Transliterator_Hiragana_Katakana.txt:UTF8:FORWARD
Katakana-Hiragana:file:Transliterator_Hiragana_Katakana.txt:UTF8:REVERSE

Any-Accents:file:Transliterator_Any_Accents.txt:UTF8:FORWARD
Accents-Any:file:Transliterator_Any_Accents.txt:UTF8:REVERSE

Any-Publishing:file:Transliterator_Any_Publishing.txt:UTF8:FORWARD
Publishing-Any:file:Transliterator_Any_Publishing.txt:UTF8:REVERSE

# Korean
# N.B. Don't end Latin-Jamo with NFC; that produces Hangul. For
# Hangul output use Latin-Hangul.

LowerLatin-Jamo:internal:Transliterator_Latin_Jamo.txt:UTF8:FORWARD
Jamo-LowerLatin:internal:Transliterator_Latin_Jamo.txt:UTF8:REVERSE
Devanagari-Latin: alias:[u0901-u0903-u0905-u0939-u093C-u094D-u0950-u0954-u0958-\u096F];NFD;Devanagari-InterIndic;Indic-Latin;NFC
Bengali-Latin: alias:[u0964-u0965-u0981-u0983-u0985-u098C-u098F-u0990-u0993-u09A8-u09AA-\u09B0-u09B2-u09B6-u09B9-u09BC-u09BE-u09C4-u09C7-u09C8-u09CB-u09CD-u09D7-u09DC-\u09DD-u09DF-u09E3-u09E6-u09FA];NFD;Bengali-InterIndic;Indic-Latin;NFC
Gurmukhi-Latin: alias:[u0964-u0965-u0A02-u0A05-u0A0A-u0A0F-u0A10-u0A13-u0A28-u0A2A-\u0A30-u0A32-u0A33-u0A35-u0A36-u0A38-u0A39-u0A3C-u0A3E-u0A42-u0A47-u0A48-u0A4B-\u0A4D-u0A4F-u0A5C-u0A5E-u0A66-u0A74];NFD;Gurmukhi-InterIndic;Indic-Latin;NFC
Gujarati-Latin: alias:[u0964-u0965-u0A81-u0A83-u0A85-u0A8B-u0A8D-u0A8F-u0A91-u0A93-\u0A9A-u0A9C-u0A9D-u0A9E-u0A9F-u0AA-u0AB0-u0AB2-u0AB3-u0AB5-u0AB9-u0ABC-u0AC5-u0AC7-u0AC9-u0ACB-\u0ACD-u0AD0-u0AE0-u0AE6-u0AEF];NFD;Gujarati-InterIndic;Indic-Latin;NFC
Oriya-Latin: alias:[u0964-u0965-u0B01-u0B03-u0B05-u0B0C-u0B0F-u0B10-u0B13-u0B28-u0B2A-\u0B30-u0B32-u0B33-u0B36-u0B39-u0B3C-u0B43-u0B47-u0B48-u0B4B-u0B4D-u0B56-u0B57-u0B5C-\u0B5D-u0B5F-u0B61-u0B66-u0B70];NFD;Oriya-InterIndic;Indic-Latin;NFC
Tamil-Latin: alias:[u0B0B2-u0B0B3-u0B0B5-u0B0BA-u0B0BE-u0B090-u0B092-u0B095-u0B099-u0B9A-u0B9C-u0B9E-\u0B9F-u0BAA-u0B0A-u0BAE-u0B0B5-u0B0B7-u0B09A-u0BBE-u0BC2-u0BC6-u0BC8-u0BCA-\u0BCD-u0BD7-u0BE7-u0BF2];NFD;Tamil-InterIndic;Indic-Latin;NFC
Telugu-Latin: alias:[u0C01-u0C03-u0C05-u0C0C-u0C0E-u0C10-u0C12-u0C28-u0C2A-u0C33-u0C35-\u0C39-u0CE-u0C44-u0C46-u0C48-u0C4A-u0C4D-u0C55-u0C56-u0C60-u0C61-u0C66-\u0C6F];NFD;Telugu-InterIndic;Indic-Latin;NFC
Kannada-Latin: alias:[u0C02-u0C03-u0C05-u0C0C-u0C0E-u0C10-u0C12-u0C28-u0C2A-u0C33-u0C35-\u0C39-u0CE-u0C44-u0C46-u0C48-u0C4A-u0C4D-u0C55-u0C56-u0C60-u0C61-u0C66-\u0C6F];NFD;Telugu-InterIndic;Indic-Latin;NFC
Kannada-Latin: alias:[u0C02-u0C03-u0C05-u0C0C-u0C0E-u0C10-u0C12-u0C28-u0C2A-u0C33-u0C35-\u0C39-u0CE-u0C44-u0C46-u0C48-u0C4A-u0C4D-u0C55-u0C56-u0C60-u0C61-u0C66-\u0C6F];NFD;Telugu-InterIndic;Indic-Latin;NFC
Malayalam-Latin: alias:[u0D02-u0D03-u0D05-u0D0C-u0D0E-u0D10-u0D12-u0D28-u0D2A-u0D39-u0D3E-\u0D43-u0D46-u0D48-u0D4A-u0D4D-u0D57-u0D60-u0D61-u0D66-u0D6F];NFD;Malayalam-InterIndic;Indic-Latin;NFC
Devanagari-Bengali: alias:[u0901-u0903-u0905-u0939-u093C-u094D-u0950-u0954-u0958-\u096F];NFD;Devanagari-InterIndic;Indic-Bengali;NFC
Devanagari-Gurmukhi: alias:[u0901-u0903-u0905-u0939-u093C-u094D-u0950-u0954-u0958-\u096F];NFD;Devanagari-InterIndic;Indic-Gurmukhi;NFC
Devanagari-Gujarati: alias:[u0901-u0903-u0905-u0939-u093C-u094D-u0950-u0954-u0958-\u096F];NFD;Devanagari-InterIndic;Indic-Gujarati;NFC
Devanagari-Oriya: alias:[u0901-u0903-u0905-u0939-u093C-u094D-u0950-u0954-u0958-\u096F];NFD;Devanagari-InterIndic;Indic-Oriya;NFC
Devanagari-Tamil: alias:[u0901-u0903-u0905-u0939-u093C-u094D-u0950-u0954-u0958-\u096F];NFD;Devanagari-InterIndic;Indic-Tamil;NFC
Devanagari-Telugu: alias:[u0901-u0903-u0905-u0939-u093C-u094D-u0950-u0954-u0958-\u096F];NFD;Devanagari-InterIndic;Indic-Telugu;NFC
Devanagari-Kannada: alias:[u0901-u0903-u0905-u0939-u093C-u094D-u0950-u0954-u0958-\u096F];NFD;Devanagari-InterIndic;Indic-Kannada;NFC
Devanagari-Malayalam: alias:[u0901-u0903-u0905-u0939-u093C-u094D-u0950-u0954-u0958-\u096F];NFD;Devanagari-InterIndic;Indic-Malayalam;NFC

Bengali-Devanagari: alias:[u0964-u0965-u0981-u0983-u0985-u098C-u098F-u0990-u0993-u09A8-u09AA-\u09B0-u09B2-u09B6-u09B9-u09BC-u09BE-u09C4-u09C7-u09C8-u09CB-u09CD-u09D7-u09DC-
<table>
<thead>
<tr>
<th>Language 1</th>
<th>Language 2</th>
<th>Language 3</th>
<th>Language 4</th>
<th>Language 5</th>
<th>Language 6</th>
<th>Language 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kannada-Devanagari</td>
<td>Kannada-Bengali</td>
<td>Kannada-Gurmukhi</td>
<td>Kannada-Gujarati</td>
<td>Kannada-Oriya</td>
<td>Kannada-Tamil</td>
<td>Malayalam-Devanagari</td>
</tr>
<tr>
<td>Malayalam</td>
<td>Telugu</td>
<td>Malayalam-Gurmukhi</td>
<td>Malayalam-Gujarati</td>
<td>Malayalam-Oriya</td>
<td>Malayalam-Tamil</td>
<td>Malayalam-Devanagari</td>
</tr>
</tbody>
</table>

**Open Source Used In Data Center Network Manager 11.5(1)**

27957
InterIndic;InterIndic-Tamil;NFC
Malayalam-Telugu:alias:[\u0D02-\u0D03\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D2A-\u0D39\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4E\u0D57\u0D60-\u0D61\u0D66-\u0D6F] \NFD;Malayalam-InterIndic;InterIndic-Telugu;NFC
Malayalam-Kannada:alias:[\u0D02-\u0D03\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D2A-\u0D39\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4E\u0D57\u0D60-\u0D61\u0D66-\u0D6F] \NFD;Malayalam-InterIndic;InterIndic-Kannada;NFC

# eof

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2.6-1.jar/com/ibm/icu/impl/data/Transliterator_index.txt

No license file was found, but licenses were detected in source scan.

#----------------------------------------------------------------------
# Copyright (c) 1999-2001, International Business Machines
# Corporation and others. All Rights Reserved.
#----------------------------------------------------------------------
#$Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Latin_Jamo.txt,v $
#$Date: 2002/03/02 00:27:27 $
#$Revision: 1.5 $
#----------------------------------------------------------------------

#- N.B. DO NOT put any filters, NFD, etc. here -- those are aliased in
#- the INDEX file. This transliterator is, by itself, not
#- instantiated. It is used as a part of Latin-Jamo, Latin-Hangul, or
#- inversely thereof.

# Transliteration from Latin characters to Korean script is done in
# two steps: Latin to Jamo, then Jamo to Hangul. The Jamo-Hangul
# transliteration is done algorithmically following Unicode 3.0
# section 3.11. This file implements the Latin to Jamo
# transliteration using rules.

# Jamo occupy the block 1100-11FF. Within this block there are three
# groups of characters: initial consonants or choseong (I), medial
# vowels or jungseong (M), and trailing consonants or jongseong (F).
# Standard Korean syllables are of the form I+M+F*.

# Section 3.11 describes the use of 'filler' jamo to convert
# nonstandard syllables to standard form: the choseong filler 115F and
# the junseong filler 1160. In this transliterator, we will not use
# 115F or 1160.

# We will, however, insert two 'null' jamo to make foreign words
# conform to Korean syllable structure. These are the null initial
# consonant 110B (IEUNG) and the null vowel 1173 (EU). In Latin text,
# we will use the separator in order to disambiguate strings,
# e.g. "kan-ggan" (initial GG) vs. "kanggan" (final NG + initial G).

# We will not use all of the characters in the jamo block. We will
# only use the 19 initials, 21 medials, and 27 finals possessing a
# jamo short name as defined in section 4.4 of the Unicode book.

# Rules of thumb. These guidelines provide the basic framework
# for the rules. They are phrased in terms of Latin-Jamo transliteration.
# The Jamo-Latin rules derive from these, since the Jamo-Latin rules are
# just context-free transliteration of jamo to corresponding short names,
# with the addition of separators to maintain round-trip integrity
# in the context of the Latin-Jamo rules.

# A sequence of vowels:
# - Take the longest sequence you can. If there are too many, or you don't
#   have a starting consonant, introduce a 110B necessary.

# A sequence of consonants.
# - First join the double consonants: G + G -> GG
# - In the remaining list,
#   -- If there is no preceding vowel, take the first consonant, and insert EU
#   -- after it. Continue with the rest of the consonants.
#   -- If there is one consonant, attach to the following vowel
#   -- If there are two consonants and a following vowel, attach one to the
#     preceding vowel, and one to the following vowel.
#   -- If there are more than two consonants, join the first two together if you
#     can: L + G => LG
#   -- If you still end up with more than 2 consonants, insert EU after the
#     first one, and continue with the rest of the consonants.

#-----------------------------------------------
# Variables

# Some latin consonants or consonant pairs only occur as initials, and
# some only as finals, but some occur as both. This makes some jamo
# consonants ambiguous when transliterated into latin.
# Initial only: IEUNG BB DD JJ R
# Final only: BS GS L LB LG LH LM LP LS LT NG NH NJ
# Initial and Final: B C D G GG H J K M N P S SS T

$Gi = \u1100;
$GGi = \u1101;
$Ni = \u1102;
$Di = \u1103;
$DD = \u1104;
$R = \u1105;
$Mi = \u1106;
$Bi = \u1107;
$LH = \u11B6;
$Mf = \u11B7;
$Bf = \u11B8;
$BS = \u11B9;
$Sf = \u11BA;
$SSf = \u11BB;
$NG = \u11BC;
$Jf = \u11BD;
$Cf = \u11BE;
$Kf = \u11BF;
$TF = \u11C0;
$Pf = \u11C1;
$Hf = \u11C2;

$jamoInitial = [\u1100-\u1112];

$jamoMedial = [\u1161-\u1175];

$latinInitial = [bcdghjkmnprst];

# Any character in the latin transliteration of a medial
$latinMedial = [aeiouwy];

# The last character of the latin transliteration of a medial
$latinMedialEnd = [aeiou];

# Disambiguation separator
$sep = \';

#---------------------------------------------------------------
# Jamo-Latin

# Jamo to latin is relatively simple, since it is the latin that is
# ambiguous. Most rules are straightforward, and we encode them below
# as simple add-on back rule, e.g.:

# $jamoMedial \{bs\} > SBS;

# becomes

# $jamoMedial \{bs\} <> SBS;

# Furthermore, we don't care about the ordering for Jamo-Latin because
# we are going from single characters, so we can very easily piggyback
# on the Latin-Jamo.

# The main issue with Jamo-Latin is when to insert separators.
# Separators are inserted to obtain correct round trip behavior. For
# example, the sequence Ki A Gf Gi E, if transliterated to "kagge", 
# would then round trip to Ki A GGi E. To prevent this, we insert a 
# separator: "kag-ge". IMPORTANT: The need for separators depends 
# very specifically on the behavior of the Latin-Jamo rules. A change 
# in the Latin-Jamo behavior can completely change the way the 
# separator insertion must be done.

# First try to preserve actual separators in the jamo text by doubling 
# them. This fixes problems like:
# -- if we don't care about losing separators in the jamo, we can delete
# this rule.

$sep $sep <> $sep;

# Triple consonants. For three consonants "axx" we insert a 
# separator between the first and second "x" if XXf, Xf, and Xi all
# exist, and we have A Xf XXi. This prevents the reverse 
# transliteration to A XXf Xi.

$sep < $latinMedialEnd g {} $GGi;
$sep < $latinMedialEnd s {} $SSi;

# For vowels the rule is similar. If there is a vowel "ae" such that
# "a" by itself and "e" by itself are vowels, then we want to map A E
# to "a-e" so as not to round trip to AE. However, in the text Ki EO
# IEUNG E we don't need to map to "keo-e". "keoe" suffices. For
# vowels of the form "aei", both "ae" + "i" and "a" + "ei" must be
# tested. NOTE: These rules used to have a left context of
# $latinInitial instead of \[^$latinMedial\]. The problem with this is
# sequences where an initial IEUNG is transliterated away:
# (IEUNG)(A)(IEUNG)(EO) => aeo => (IEUNG)(AE)(IEUNG)(O)

$sep < [^$latinMedial] [y w] e {} [$O $OE];
$sep < [^$latinMedial] e {} [$O $OE $U];
$sep < [^$latinMedial] [o a] {} [$E $EO $EU];
$sep < [^$latinMedial] [w y] a {} [$E $EO $EU];

# Similar to the above, but with an intervening $IEUNG.

$sep < [^$latinMedial] [y w] e {} $IEUNG [$SO $OE];
$sep < [^$latinMedial] e {} $IEUNG [$SO $OE $SU];
$sep < [^$latinMedial] [o a] {} $IEUNG [$SE $SEO $EU];
$sep < [^$latinMedial] [w y] a {} $IEUNG [$SE $SEO $EU];

# Single finals followed by IEUNG. The jamo sequence A Xf IEUNG E,
# where Xi also exists, must be transliterated as "ax-e" to prevent
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# the round trip conversion to A Xi E.

$sep < $latinMedialEnd b {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd c {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd d {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd g {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd h {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd j {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd k {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd m {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd n {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd p {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd s {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd t {} $IEUNG $jamoMedial;

# Double finals followed by IEUNG.  Similar to the single finals
# followed by IEUNG.  Any latin consonant pair X Y, between medials,
# that we would split by Latin-Jamo, we must handle when it occurs as
# part of A XYf IEUNG E, to prevent round trip conversion to A Xf Yi
# E.

$sep < $latinMedialEnd b s {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd g g {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd g s {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd l b {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd l g {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd l h {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd l m {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd l p {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd l s {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd l t {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd n g {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd n h {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd n j {} $IEUNG $jamoMedial;
$sep < $latinMedialEnd s s {} $IEUNG $jamoMedial;

# Split doubles.  Text of the form A Xi Xf E, where XXi also occurs,
# we transliterate as "ax-xe" to prevent round trip transliteration as
# A XXi E.

$sep < $latinMedialEnd b {} $Bi $jamoMedial;
$sep < $latinMedialEnd d {} $Di $jamoMedial;
$sep < $latinMedialEnd j {} $Ji $jamoMedial;
$sep < $latinMedialEnd g {} $Gi $jamoMedial;
$sep < $latinMedialEnd s {} $Si $jamoMedial;

# XYY.  This corresponds to the XYY rule in Latin-Jamo.  By default
# Latin-Jamo maps "xxy" to Xf YYi, to keep YY together.  As a result,
"xyy" forms that correspond to XYf Yi must be transliterated as "xy-y".

```plaintext
$sep <$latinMedialEnd b s {} [$Si $SSI];
$sep <$latinMedialEnd g s {} [$Si $SSI];
$sep <$latinMedialEnd l b {} [$Bi $BB];
$sep <$latinMedialEnd l g {} [$Gi $GGi];
$sep <$latinMedialEnd l s {} [$Si $SSI];
$sep <$latinMedialEnd n g {} [$Gi $GGi];
$sep <$latinMedialEnd n j {} [$Ji $JJ];
```

Deletion of IEUNG is handled below.

```
#----------------------------------------------------------------------
# Latin-Jamo
# [Basic, context-free Jamo-Latin rules are embedded here too. See # above.]

# Split digraphs: Text of the form 'axye', where 'xy' is a final
# digraph, 'x' is a final (by itself), 'y' is an initial, and 'a' and
# 'e' are medials, we want to transliterate this as A Xf Yi E rather
# than A XYf IEUNG E. We do NOT include text of the form "axxe",
# since that is handled differently below. These rules are generated
# programmatically from the jamo data.

$jamoMedial {b s} $latinMedial > $Bf $Si;
$jamoMedial {g s} $latinMedial > $Gf $Si;
$jamoMedial {l b} $latinMedial > $L $Bi;
$jamoMedial {l g} $latinMedial > $L $Gi;
$jamoMedial {l h} $latinMedial > $L $Hi;
$jamoMedial {l m} $latinMedial > $L $Mi;
$jamoMedial {l p} $latinMedial > $L $Pi;
$jamoMedial {l s} $latinMedial > $L $Si;
$jamoMedial {l t} $latinMedial > $L $Ti;
$jamoMedial {n g} $latinMedial > $Nf $Gi;
$jamoMedial {n h} $latinMedial > $Nf $Hi;
$jamoMedial {n j} $latinMedial > $Nf $Ji;
```

Single consonants are initials: Text of the form 'axe', where 'x'
# can be an initial or a final, and 'a' and 'e' are medials, we want
# to transliterate as A Xi E rather than A Xf IEUNG E.

```
$jamoMedial {b} $latinMedial > $Bi;
$jamoMedial {c} $latinMedial > $Ci;
$jamoMedial {d} $latinMedial > $Di;
$jamoMedial {g} $latinMedial > $Gi;
```

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$\text{jamoMedial} \ {\{j\}} \ $\text{latinMedial} > $\text{Ji};
$\text{jamoMedial} \ {\{k\}} \ $\text{latinMedial} > $\text{Ki};
$\text{jamoMedial} \ {\{m\}} \ $\text{latinMedial} > $\text{Mi};
$\text{jamoMedial} \ {\{n\}} \ $\text{latinMedial} > $\text{Ni};
$\text{jamoMedial} \ {\{p\}} \ $\text{latinMedial} > $\text{Pi};
$\text{jamoMedial} \ {\{s\}} \ $\text{latinMedial} > $\text{Si};
$\text{jamoMedial} \ {\{t\}} \ $\text{latinMedial} > $\text{Ti};

# Doubled initials. The sequence "axxe", where XX exists as an initial # (XXi), and also Xi and Xf exist (true of all digraphs XX), we want # to transliterate as A XXi E, rather than split to A Xf Xi E.

$\text{jamoMedial} \ {\{b \ b\}} \ $\text{latinMedial} > $\text{BB};
$\text{jamoMedial} \ {\{d \ d\}} \ $\text{latinMedial} > $\text{DD};
$\text{jamoMedial} \ {\{j \ j\}} \ $\text{latinMedial} > $\text{JJ};
$\text{jamoMedial} \ {\{g \ g\}} \ $\text{latinMedial} > $\text{GGi};
$\text{jamoMedial} \ {\{s \ s\}} \ $\text{latinMedial} > $\text{SSi};

# XYY. Because doubled consonants bind more strongly than XY # consonants, we must handle the sequence "axyy" specially. Here XYf # and YYi must exist. In these cases, we map to Xf YYi rather than # XYf.

$\text{jamoMedial} \ {\{b \ s \ s\}} > $\text{Bf};
$\text{jamoMedial} \ {\{g \ s \ s\}} > $\text{Gf};
$\text{jamoMedial} \ {\{l \ b \ b\}} > $\text{L};
$\text{jamoMedial} \ {\{l \ g \ g\}} > $\text{L};
$\text{jamoMedial} \ {\{l \ s \ s\}} > $\text{L};
$\text{jamoMedial} \ {\{n \ g \ g\}} > $\text{Nf};
$\text{jamoMedial} \ {\{n \ j \ j\}} > $\text{Nf};

# Finals: Attach consonant with preceding medial to preceding medial. # Do this BEFORE mapping consonants to initials. Longer keys must # precede shorter keys that they start with, e.g., the rule for 'bs' # must precede 'b'.

# [BASIC Jamo-Latin FINALS handled here. Order irrelevant within this # block for Jamo-Latin.]

$\text{jamoMedial} \ {\{bs\}} <> $\text{BS};
$\text{jamoMedial} \ {\{b\}} <> $\text{Bf};
$\text{jamoMedial} \ {\{c\}} <> $\text{Cf};
$\text{jamoMedial} \ {\{d\}} <> $\text{Df};
$\text{jamoMedial} \ {\{gg\}} <> $\text{GGf};
$\text{jamoMedial} \ {\{gs\}} <> $\text{GS};
$\text{jamoMedial} \ {\{g\}} <> $\text{Gf};
$\text{jamoMedial} \ {\{h\}} <> $\text{Hf};
$\text{jamoMedial} \ {\{j\}} <> $\text{Jf};
# Initials: Attach single consonant to following medial. Do this
# AFTER mapping finals. Longer keys must precede shorter keys that
# they start with, e.g., the rule for 'gg' must precede 'g'.

# [BASIC Jamo-Latin INITIALS handled here. Order irrelevant within
# this block for Jamo-Latin.]

{gg} $latinMedial <> $GGi;
{g} $latinMedial <> $Gi;
{n} $latinMedial <> $Ni;
{dd} $latinMedial <> $DD;
{d} $latinMedial <> $Di;
{r} $latinMedial <> $R;
{m} $latinMedial <> $Mi;
{bb} $latinMedial <> $BB;
{b} $latinMedial <> $Bi;
{ss} $latinMedial <> $SSi;
{s} $latinMedial <> $Si;
{jj} $latinMedial <> $JJ;
{jj} $latinMedial <> $Ji;
{c} $latinMedial <> $Ci;
{k} $latinMedial <> $Ki;
{t} $latinMedial <> $Ti;
{p} $latinMedial <> $Pi;
{h} $latinMedial <> $Hi;

# 'r' in final position. Because of the equivalency of the 'l' and
# 'r' jamo (the glyphs are the same), we try to provide the same
# equivalency in Latin-Jamo. The 'l' to 'r' conversion is handled
# below. If we see an 'r' in an apparent final position, treat it
# like 'l'. For example, "karka" => Ki A R EU Ki A without this rule.
# Instead, we want Ki A L Ki A.

$jamoMedial {r} \$latinInitial > | l;

# Initial + Final: If we match the next rule, we have initial then
# final consonant with no intervening medial. We insert the null
# vowel BEFORE it to create a well-formed syllable. (In the next rule
# we insert a null vowel AFTER an anomalous initial.)

$jamoInitial {} [bcdghjklmnpst] > $EU;

# Initial + X: This block matches an initial consonant not followed by
# a medial. We insert the null vowel after it. We handle double
# initials explicitly here: for single initial consonants we insert EU
# (as Latin) after them and let standard rules do the rest.

# BREAKS ROUND TRIP INTEGRITY

gg > $GGi $EU;
dd > $DD $EU;
bb > $BB $EU;
ss > $SSI $EU;
jj > $JJ $EU;

([bcdghjkmnprst]) > | $1 eu;

# X + Final: Finally we have to deal with a consonant that can only be
# interpreted as a final (not an initial) and which is preceded
# neither by an initial nor a medial. It is the start of the
# syllable, but cannot be. Most of these will already be handled by
# the above rules. 'bs' splits into Bi EU Sf. Similar for 'gs' 'ng'
# 'nh' 'nj'. The only problem is 'l' and digraphs starting with 'l'.
# For this isolated case, we could add a null initial and medial,
# which would give "la" => IEUNG EU L IEUNG A, for example. A more
# economical solution is to transliterate isolated 'l' (that is,
# initial 'l') to 'r'. (Other similar conversions of consonants that
# occur neither as initials nor as finals are handled below.)

l > | r;

# Medials. If a medial is preceded by an initial, then we proceed
# normally. As usual, longer keys must precede shorter ones.

# [BASIC Jamo-Latin MEDIALS handled here. Order irrelevant within
# this block for Jamo-Latin.]

$jamoInitial {ae} <> $AE;
$jamoInitial {a} <> $A;
$jamoInitial {eo} <> $SEO;
$jamoInitial {eu} <> $SEU;
$jamoInitial {e} <> $E;
$jamoInitial {i} <> $I;
$jamoInitial {oe} <> $SOE;
$jamoInitial {o} <> $SO;
$jamoInitial {u} <> $SU;
$jamoInitial {wae} <> $SWAE;
$jamoInitial {wa} <> $WA;
$jamoInitial {weo} <> $WEO;
$jamoInitial {we} <> $WE;
$jamoInitial {wi} <> $WI;
$jamoInitial {yae} <> $SYAE;
$jamoInitial {ya} <> $YA;
$jamoInitial {yoe} <> $SEO;
$jamoInitial {ye} <> $YE;
$jamoInitial {yi} <> $YI;
$jamoInitial {yo} <> $YO;
$jamoInitial {yu} <> $YU;

# We may see an anomalous isolated 'w' or 'y'. In that case, we
# interpret it as 'wi' and 'yu', respectively.

# BREAKS ROUND TRIP INTEGRITY

$jamoInitial {w} > | wi;
$jamoInitial {y} > | yu;

# Otherwise, insert a null consonant IEUNG before the medial (which is
# still an untransliterated latin vowel).

($latinMedial) > $IEUNG | $1;

# Convert non-jamo latin consonants to equivalents. These occur as
# neither initials nor finals in jamo. 't' occurs as a final, but not
# an initial; it is handled above. The following letters (left hand
# side) will never be output by Jamo-Latin.

f > | p;
q > | k;
v > | b;
x > | ks;
z > | s;

# Delete separators (Latin-Jamo).

$sep > ;
# Delete null consonants (Jamo-Latin). Do NOT delete null EU vowels, # since these may also occur in text.

< $IEUNG;

#- N.B. DO NOT put any filters, NFD, etc. here -- those are aliased in #- the INDEX file. This transliterator is, by itself, not #- instantiated. It is used as a part of Latin-Jamo, Latin-Hangul, or #- inverses thereof.

# eof

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-jar/com/ibm/icu/impl/data/Transliterator_Latin_Jamo.txt

No license file was found, but licenses were detected in source scan.

#-----------------------------------------------
# Copyright (c) 1999-2003, International Business Machines
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#-----------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Fullwidth_Halfwidth.txt,v $
# $Date: 2003/06/03 18:49:33 $
# $Revision: 1.5 $
#-----------------------------------------------

# Fullwidth-Halfwidth

# Mechanically generated from Unicode Character Database
# IDEOGRAPHIC SPACE then added, and
# FULLWIDTH MACRON changed to map to MACRON, not SPACE + COMBINING MACRON

# multicharacter

<>; # to KATAKANA LETTER GA
<>; # to KATAKANA LETTER GI
<>; # to KATAKANA LETTER GU
<>; # to KATAKANA LETTER GE
<>; # to KATAKANA LETTER GO
<>; # to KATAKANA LETTER ZA
<>; # to KATAKANA LETTER ZI
<>; # to KATAKANA LETTER ZU
<>; # to KATAKANA LETTER ZE
<>; # to KATAKANA LETTER ZO
<>; # to KATAKANA LETTER DA
<>; # to KATAKANA LETTER DI
<>; # to KATAKANA LETTER DU
Open Source Used In Data Center Network Manager 11.5(1) 27972
Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1.jar/com/ibm/icu/impl/data/Transliterator_Fullwidth_Halfwidth.txt
No license file was found, but licenses were detected in source scan.

# Copyright (c) 1999-2001, International Business Machines
# Corporation and others. All Rights Reserved.

# TODO: add remaining characters
# Should add variants for Russian-English, Russian-German
# Those can use this as a base, and then remap cases
# like a $hat to ya or ja.

# :: [\u0000-\u007E \u02B9 \u02BA [:Cyrillic:] [:Latin:] [:nonspace mark:] ] ;
### WARNING, \u0308 must be added to the generated filters, in both directions ###
# MINIMAL FILTER
:: [\u0308\u0102-\u0103\u0114-\u0115\u011E-\u011F\u012C-\u012D\u014E-\u014F\u016C-\u016D\u0306-\u04DF\u04E2-\u04E7\u04EC-\u04F5\u04F8-\u04F9\u1E1C-\u1EB7\u1FB0\u1FB8\u1FD0\u1FD8\u1FE0\u1FE8] ;
:: NFD (NFC) ;

$modprime = \u02B9;
$modprime2 = \u02BA;

$grave = \u0300;
$acute = \u0301;
$hat = \u0302;
$breve = \u0306 ;
$dot = \u0307 ;
$caron = \u030C ;
$comma = \u0326 ;
$under = \u0331 ;

# move up so not masked

<> a $hat ; # CYRILLIC SMALL LETTER YA
<> A $hat ; # CYRILLIC CAPITAL LETTER YA
### Completeness

$\text{Signore = } \text{[:Mark:]''} * ;$

| k < q ; |
| K < Q ; |
| u < w ; |
| U < W ; |
| KS < X } $\text{ignore } \text{[:UppercaseLetter:]} ;$
| KS < [\text{[:UppercaseLetter:]} $\text{ignore } \{ X ;$
| KS < X ; |
| ks < x ; |

:: NFC (NFD) ;

# note: a global filter is more efficient, but MUST include all source chars!!

# :: (\text{[\u0000-\u007E \u02B9 \u02BA \text{:Cyrillic:} \text{:Latin:} \text{:nonspacing mark:}]}) ;

# MINIMAL FILTER: Latin-Cyrillic

:: (\text{[\u0308A-Za-z\u00C0-\u00CF\u00D1-\u00D6\u00D9-\u00DD\u00E0-\u00F6\u00F9-\
\u00FD\u00FF-\u0125\u0128-\u0130\u0134-\u0137\u0139-\u013Eu0143-\u0148u014C-\u0151u0154-\
\u0165u0168-\u017Eu018Fu019Au01A0-\u01A1u01AF-\u01B0u01CD-\u01DCu01DE-\u01E3u01E6-\u01F0u01F4-\
\u01F5u01F8-\u021Bu021Eu021Fu0226-\u0233u0259u02B9-\u02BAu0300-\u0302u0306-\
\u0307u030Cu0326u0331u0340-\u0341u0344u0374u0385-\u0386u0388-\u038Au038Cu038E-\
\u0390u03AC-\u03B0u03CC-\u03CEu03D3u0400u0403u040CU040EU0419u0439u0450u0453u045C-\
\u045Eu04C1-\u04C2u04D0-\u04D1u04D6-\u04D7u1E00-\u1E99u1E9Bu1EFA0-\u1EF9u1F02-\u1F5u1FOA-\
\u1F0Du1F12-\u1F5u1F1A-\u1F1Du1F22-\u1F5u1F2A-\u1F2Du1F32-\u1F35u1F3A-\u1F3Du1F42-\
\u1F45u1F4A-\u1F4Du1F52-\u1F55u1F5Bu1F5Du1F62-\u1F65u1F6A-\u1F6Du1F70-\u1F7Du1F82-\
\u1F85u1F8A-\u1FDu1F92-\u1F95u1F9A-\u1F9Du1FA2-\u1FA5u1FAA-\
\u1FADu1FB0u1FB2u1FB4u1FB8u1FBA-\u1FBBu1FC2u1FC4u1FC8-\u1FCBu1FCD-\
\u1FCEu1FDOu1FD2-\u1FD3u1FD8u1FDA-\u1FDBu1FDD-\u1FDEu1FE0u1FE2-\u1FE3u1FE8u1FEA-\
\u1FEBu1FED-\u1FEEu1FF2u1FF4u1FF8-\u1FFBu212A-\u212B]} ;

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:: NFD (NFC) ;

# to do: make reversible

# define special conversion characters.
# variants of this could use different characters, or set one or the other to null.

$pre = \\
$post = \\

# Provide keyboard equivalents for common diacritics used in transliteration

$pre \$post <-> \u0300 ; # COMBINING GRAVE ACCENT
$pre \$post <-> \u0301 ; # COMBINING ACUTE ACCENT
$pre \$post <-> \u0302 ; # COMBINING CIRCUMFLEX ACCENT
$pre ~$post <-> \u0303 ; # COMBINING TILDE
$pre \$post <-> \u0304 ; # COMBINING MACRON
$pre \$post <-> \u0308 ; # COMBINING DIAERESIS
$pre *$post <-> \u030A ; # COMBINING RING ABOVE
$pre \$post <-> \u00C6 ; # LATIN CAPITAL LETTER AE
$pre \$post <-> \u00E6 ; # LATIN SMALL LETTER AE
$pre D$post <-> \u00D0 ; # LATIN CAPITAL LETTER ETH
$pre d$post <-> \u00F0 ; # LATIN SMALL LETTER ETH
$pre O'$ post <-> \u00D8 ; # LATIN CAPITAL LETTER O WITH STROKE
$pre o'$ post <-> \u00F8 ; # LATIN SMALL LETTER O WITH STROKE
$pre TH$post <-> \u00DE ; # LATIN CAPITAL LETTER THORN
$pre th$post <-> \u00FE ; # LATIN SMALL LETTER THORN
$pre OE$post <-> \u0152 ; # LATIN CAPITAL LIGATURE OE
$pre oe$post <-> \u0153 ; # LATIN SMALL LIGATURE OE
$pre ss $post <> \u00DF ; # LATIN SMALL LETTER SHARP S

$pre NG $post <> \u014A ; # LATIN CAPITAL LETTER ENG
$pre ng $post <> \u014B ; # LATIN SMALL LETTER ENG

$pre T $post <> \u0398 ; # THETA
$pre t $post <> \u03B8 ; # THETA

$pre SH $post <> \u01A9 ; # LATIN CAPITAL LETTER ESH
$pre sh $post <> \u0283 ; # LATIN SMALL LETTER ESH

$pre ZH $post <> \u01B7 ; # LATIN CAPITAL LETTER EZH
$pre zh $post <> \u0292 ; # LATIN SMALL LETTER EZH

$pre U $post <> \u01B1 ; # LATIN CAPITAL LETTER UPSILON
$pre u $post <> \u028A ; # LATIN SMALL LETTER UPSILON

$pre A $post <> \u018F ; # LATIN CAPITAL LETTER SCHWA
$pre a $post <> \u0259 ; # LATIN SMALL LETTER SCHWA

$pre O $post <> \u0186 ; # LATIN CAPITAL LETTER OPEN O
$pre o $post <> \u0254 ; # LATIN SMALL LETTER OPEN O

$pre E $post <> \u0190 ; # LATIN CAPITAL LETTER OPEN E
$pre e $post <> \u025B ; # LATIN SMALL LETTER OPEN E

# three that don't have uppercases

$pre ?$ post <> \u0294 ; # LATIN LETTER GLOTTAL STOP
$pre i $post <> \u026A ; # LATIN LETTER SMALL CAPITAL I
$pre v $post <> \u028C ; # LATIN SMALL LETTER TURNED V

# Additional Characters that may be added in the future

# $pre XXX $post <> \u0306 ; # COMBINING BREVE
# $pre XXX $post <> \u0307 ; # COMBINING DOT ABOVE
# $pre XXX $post <> \u0309 ; # COMBINING HOOK ABOVE
# $pre XXX $post <> \u030B ; # COMBINING DOUBLE ACUTE ACCENT
# $pre XXX $post <> \u030C ; # COMBINING CARON
# $pre XXX $post <> \u030F ; # COMBINING DOUBLE GRAVE ACCENT
# $pre XXX $post <> \u0311 ; # COMBINING INVERTED BREVE
# $pre XXX $post <> \u0313 ; # COMBINING COMMA ABOVE
# $pre XXX $post <> \u0314 ; # COMBINING REVERSED COMMA ABOVE
# $pre XXX $post <> \u031B ; # COMBINING HORN
# $pre XXX $post <> \u0324 ; # COMBINING DIAERESIS BELOW
# $pre XXX $post <> \u0325 ; # COMBINING RING BELOW
# $pre XXX $post <> \u0326 ; # COMBINING COMMA BELOW
# $pre XXX $post <> \u0328 ; # COMBINING OGONEK
# $pre XXX $post <> \u032D ; # COMBINING CIRCUMFLEX ACCENT BELOW
# $pre XXX $post <> \u032E ; # COMBINING BREVE BELOW
# $pre XXX $post <> \u0330 ; # COMBINING TILDE BELOW
# $pre XXX $post <> \u0331 ; # COMBINING MACRON BELOW
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:: NFC (NFD) ;

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
jar/com/ibm/icu/impl/data/Transliterator_Any_Accents.txt

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#---------------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Bengali_InterIndic.txt,v $  
# $Date: 2002/09/19 18:11:23 $  
# $Revision: 1.11 $  
#---------------------------------------------------------------

# Bengali-InterIndic

\u09C7\u09BE>\uE04B; # VOWEL SIGN O 
\u09C7\u09D7>\uE04C; # VOWEL SIGN AU 
\u0981>\uE001; # SIGN CANDRABINDU 
\u0982>\uE002; # SIGN ANUSVARA 
\u0983>\uE003; # SIGN VISARGA 
\u0985>\uE005; # LETTER A 
\u0986>\uE006; # LETTER AA 
\u0987>\uE007; # LETTER I 
\u0988>\uE008; # LETTER II 
\u0989>\uE009; # LETTER U 
\u098A>\uE00A; # LETTER UU 
\u098B>\uE00B; # LETTER VOCALIC R 
\u098C>\uE00C; # LETTER VOCALIC L 
\u098F>\uE00F; # LETTER E 
\u0990>\uE010; # LETTER AI 
\u0993>\uE013; # LETTER O 
\u0994>\uE014; # LETTER AU 
\u0995>\uE015; # LETTER KA 
\u0996>\uE016; # LETTER KHA 
\u0997>\uE017; # LETTER GA 
\u0998>\uE018; # LETTER GHA
\u09E6>\uE066; # DIGIT ZERO
\u09E7>\uE067; # DIGIT ONE
\u09E8>\uE068; # DIGIT TWO
\u09E9>\uE069; # DIGIT THREE
\u09EA>\uE06A; # DIGIT FOUR
\u09EB>\uE06B; # DIGIT FIVE
\u09EC>\uE06C; # DIGIT SIX
\u09ED>\uE06D; # DIGIT SEVEN
\u09EE>\uE06E; # DIGIT EIGHT
\u09EF>\uE06F; # DIGIT NINE
\u09F0>\ue071; # Bengali-InterIndic: LETTER RA WITH MIDDLE DIAGONAL
\u09F1>\ue072; # Bengali-InterIndic: LETTER RA WITH LOWER DIAGONAL
\u09F2>\ue073; # Bengali-InterIndic: RUPEE MARK
\u09F3>\ue074; # Bengali-InterIndic: RUPEE SIGN
\u09F4>\ue075; # Bengali-InterIndic: CURRENCY NUMERATOR ONE
\u09F5>\ue076; # Bengali-InterIndic: CURRENCY NUMERATOR TWO
\u09F6>\ue077; # Bengali-InterIndic: CURRENCY NUMERATOR THREE
\u09F7>\ue078; # Bengali-InterIndic: CURRENCY NUMERATOR FOUR
\u09F8>\ue079; # Bengali-InterIndic: CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR
\u09F9>\ue07A; # Bengali-InterIndic: CURRENCY DENOMINATOR SIXTEEN
\u09FA>\ue07B; # ISSHAR

\u0964>\ue064;  # DANDA
\u0965>\ue065;  # DOUBLE DANDA
# :: NFC (NFD);
# eof

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1.jar/com/ibm/icu/impl/data/Transliterator_Bengali_InterIndic.txt
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#----------------------------------------------------------------------
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#----------------------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Arabic_Latin.txt,v $
# $Date: 2002/07/15 23:26:26 $
# $Revision: 1.3 $
#----------------------------------------------------------------------

# Generally follows UNGEGN <http://www.eki.ee/wgrs/rom1_ar.pdf>
# a) where required for disambiguation.
# b) with underdot instead of cedilla for letter like SAD, since
# those are explicitly in Unicode for transliteration.
# c) with extra non-Arabic-language letters, like PEH
# Does *not* do assimilation of "al", nor hyphenation.
# While it could be done, we need to determine whether a prefix "al" could
# occur other than as the definite article (since no space is used).

:: [:Arabic:] [\u060C\u061B\u061F\u0640\u064B-\u0655\u0660-\u066C\u06F0-\u06F9\uFDFC]] ;
:: NFC (NFC);
$disambig = ;
$disambig2 = ;
$under = ;

$notAbove = [:^ccc=0:];&[:^ccc=230:];;

# non-letters

<> '.' $disambig ; # ARABIC DECIMAL SEPARATOR
<> ',' $disambig ; # ARABIC THOUSANDS SEPARATOR
# <> ; # ARABIC FIVE POINTED STAR // no need to transliterate

<> '!' ; # ARABIC COMMA
<> ':' ; # ARABIC SEMICOLON
<> '?' ; # ARABIC QUESTION MARK
<> '%' ; # ARABIC PERCENT SIGN

<> 0 $disambig ; # EXTENDED ARABIC-INDIC DIGIT ZERO
<> 1 $disambig ; # EXTENDED ARABIC-INDIC DIGIT ONE
<> 2 $disambig ; # EXTENDED ARABIC-INDIC DIGIT TWO
<> 3 $disambig ; # EXTENDED ARABIC-INDIC DIGIT THREE
<> 4 $disambig ; # EXTENDED ARABIC-INDIC DIGIT FOUR
<> 5 $disambig ; # EXTENDED ARABIC-INDIC DIGIT FIVE
<> 6 $disambig ; # EXTENDED ARABIC-INDIC DIGIT SIX
<> 7 $disambig ; # EXTENDED ARABIC-INDIC DIGIT SEVEN
<> 8 $disambig ; # EXTENDED ARABIC-INDIC DIGIT EIGHT
<> 9 $disambig ; # EXTENDED ARABIC-INDIC DIGIT NINE

# letters

# long vowels
<n ; # ARABIC LETTER NOON
<h ; # ARABIC LETTER HEH
<w ; # ARABIC LETTER WAW
<y $disambig ; # ARABIC LETTER ALEF MAKSURA
<y ; # ARABIC LETTER YEH
<a ; # ARABIC FATHATAN
<u ; # ARABIC DAMMATAN
<i ; # ARABIC KASRATAN
<a ; # ARABIC FATHA
<u ; # ARABIC DAMMA
<i ; # ARABIC KASRA
; # ARABIC SHADDA
; # ARABIC SUKUN

# special combining marks
; # ARABIC MADDHA ABOVE
; # ARABIC HAMZA ABOVE
; # ARABIC HAMZA BELOW

# Some non-Arabic language (not in UNGEGN)
p ; # ARABIC LETTER PEH
<ch $disambig ; ARABIC LETTER TCHEH
<v ; # ARABIC LETTER VEH
<v $disambig ; ARABIC LETTER FEH WITH THREE DOTS BELOW
<v $disambig ; ARABIC LETTER FEH WITH DOTMOVED BELOW
<g ; # ARABIC LETTER GAF

# fallbacks
| s < c ] [eiy];
| k < c ;
| i < e ;
| u < o ;
| ks < x ;
| n < ;

:: (lower);
::NFC (NFD);
:: ([[:Latin:] [%,0-9,:u02BE-u02BF:u0302-u0304:u0308-u030A:u0323:u0330-u0333:u0331:u0339:u037E]]);

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
jar/com/ibm/icu/impl/data/Transliterator_Arabic_Latin.txt
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# Thai-Latin

# This set of rules follows ISO 11940
# see http://homepage.mac.com/sirbinks/pdf/Thai.r2.pdf
# except that that does not mention an implicit vowel, so we use o
#
# The transcription is fairly ugly, so we ought to also do the UNGEGN version
# see: http://www.eki.ee/wgrs/rom1_th.pdf
# and probably make that the main variant.

# Note: this is an internal file. The NFD/NFC is handled externally, in the index
# The insertion of spaces between words, the reversal of the vowels
# and the conversion of space to semicolon are done *outside* of these rules.
# So as far as these rules are concerned, the vowels are in logical order!

# insert implicit vowel (and remove it going the other way)
# COMMENTED out: the implicit vowel positions cannot be predicted algorithmically
#$consonant = \[-\];
#$vowel = \[--\];

#{ ( $consonant ) } \[^$vowel \] > | $1  ;
# > o ;
# < o ;

$notAbove = [^p{ccc=0}\p{ccc=above}] ;
$notBelow = [^p{ccc=0}\p{ccc=below}] ;

# Consonants
# Warning: the 'h's need to be handled carefully!
# What we really want to say is the following, but we can't
# $notHAccent = !($notAbove* | $notBelow* ) ;
# Since the only accents we care about that could cause problems are free-standing accents below, we use instead:
$freeStandingBelow = [\u0325 ] ;
$ShAccent = [ ]
$notHAccent0 = [^$freeStandingBelow$ShAccent] ;
$notHAccent1 = $freeStandingBelow [^$ShAccent] ;

> h ; # THAI CHARACTER HO HIP
| $1 < h ($notAbove* ) ; # backward case, account for reordering
<> h ; # THAI CHARACTER HO NOKHUK

<> kh ; # THAI CHARACTER KHO KHAI
<> kh ; # THAI CHARACTER KHO KHUAT
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<> kh ; # THAI CHARACTER KHO KHON
<> kh ; # THAI CHARACTER KHO RAKHANG
< kh } $notHAccent1 ; # THAI CHARACTER KHO KHWAI
<> kh } $notHAccent0 ; # THAI CHARACTER KHO KHWAI
<> k ; # THAI CHARACTER KO KAI

<> ph ; # THAI CHARACTER PHO SAMPHAO
<> ph ; # THAI CHARACTER PHO PHUNG
< ph } $notHAccent1 ; # THAI CHARACTER PHO PHAN
<> ph } $notHAccent0 ; # THAI CHARACTER PHO PHAN
<> p ; # THAI CHARACTER PO PLA

<> ch ; # THAI CHARACTER CHO CHING
<> ch ; # THAI CHARACTER CHO CHOE
< ch } $notHAccent1 ; # THAI CHARACTER CHO CHANG
<> ch } $notHAccent0 ; # THAI CHARACTER CHO CHANG
<> c ; # THAI CHARACTER CHO CHAN

<> th ; # THAI CHARACTER THO THAN
<> th ; # THAI CHARACTER THO NANGMOUTHO
<> th ; # THAI CHARACTER THO PHUTHAO
<> th ; # THAI CHARACTER THO THUNG
<> th ; # THAI CHARACTER THO THONG
< th } $notHAccent1 ; # THAI CHARACTER THO THAHAN
<> th } $notHAccent0 ; # THAI CHARACTER THO THAHAN

#Note: TO PATAK deviates from ISO since t-dotunder + h would be ambiguous. So it uses vertical tick.
<> t ; # THAI CHARACTER TO PATAK
<> t ; # THAI CHARACTER TO TAO

# since there is no singleton g (generated), don't worry about that.
<> ng ; # THAI CHARACTER NGO NGU
<> n ; # THAI CHARACTER NO NEN
<> n ; # THAI CHARACTER NO NU

<> y ; # THAI CHARACTER YO YING
<> d ; # THAI CHARACTER DO CHADA
<> d ; # THAI CHARACTER DO DEK

<> b ; # THAI CHARACTER BO BAIMAI
<> f ; # THAI CHARACTER FO FA
| $1 < f ($notAbove*) ; # backward case, account for reordering

<> m ; # THAI CHARACTER MO MA
<> y ; # THAI CHARACTER YO YAK
<> r ; # THAI CHARACTER RO RUA
<> v ; # THAI CHARACTER RU
<> ; # THAI CHARACTER LU
<> w ; # THAI CHARACTER WO WAEN
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# We deviate from ISO for disambiguation

<> ; # THAI CHARACTER NIKHAHIT

<> § ; # THAI CHARACTER FONGMAN

<> 0 ; # THAI DIGIT ZERO
<> 1 ; # THAI DIGIT ONE
<> 2 ; # THAI DIGIT TWO
<> 3 ; # THAI DIGIT THREE
<> 4 ; # THAI DIGIT FOUR
<> 5 ; # THAI DIGIT FIVE
<> 6 ; # THAI DIGIT SIX
<> 7 ; # THAI DIGIT SEVEN
<> 8 ; # THAI DIGIT EIGHT
<> 9 ; # THAI DIGIT NINE

<> || ; # THAI CHARACTER ANGKHANKHU

<> » ; # THAI CHARACTER KHOMUT
<> « ; # THAI CHARACTER MAIYAMOK

# moved down to make shorter first
#Note: PHINTHU deviates from ISO since underring causes canonical problems. So it uses spacing tick below.

<> ; # THAI CHARACTER PHINTHU
<> i ; # THAI CHARACTER SARA I

# fallbacks

| k < g |
| k < h |
| c < j |
| k < q |
| s < z |

:: (lower);

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-jar/com/ibm/icu/impl/data/Transliterator_ThaiLogical_Latin.txt
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#---------------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Malayalam_InterIndic.txt,v $
# $Date: 2002/03/02 00:27:26 $
# $Revision: 1.5 $
#---------------------------------------------------------------

# Malayalam-InterIndic
#: NFD (NFC) ;

\u0D02>\uE002;  # SIGN ANUSVARA
\u0D03>\uE003;  # SIGN VISARGA
\u0D05>\uE005;  # LETTER A
\u0D06>\uE006;  # LETTER AA
\u0D07>\uE007;  # LETTER I
\u0D08>\uE008;  # LETTER II
\u0D09>\uE009;  # LETTER U
\u0D0A>\uE00A;  # LETTER UU
\u0D0B>\uE00B;  # LETTER VOCALIC R
\u0D0C>\uE00C;  # LETTER VOCALIC L
\u0D0E>\uE00E;  # LETTER E
\u0D0F>\uE00F;  # LETTER EE
\u0D10>\uE010;  # LETTER AI
\u0D12>\uE012;  # LETTER O
\u0D13>\uE013;  # LETTER OO
\u0D14>\uE014;  # LETTER AU
\u0D15>\uE015;  # LETTER KA
\u0D16>\uE016;  # LETTER KHA
\u0D17>\uE017;  # LETTER GA
\u0D18>\uE018;  # LETTER GHA
\u0D19>\uE019;  # LETTER NGA
\u0D1A>\uE01A;  # LETTER TA
\u0D1B>\uE01B;  # LETTER THA
\u0D1C>\uE01C;  # LETTER DA
\u0D1D>\uE01D;  # LETTER JHA
\u0D1E>\uE01E;  # LETTER NYA
\u0D1F>\uE01F;  # LETTER TTA
\u0D20>\uE020;  # LETTER TTHA
\u0D21>\uE021;  # LETTER DDA
\u0D22>\uE022;  # LETTER DDHA
\u0D23>\uE023;  # LETTER NNA
\u0D24>\uE024;  # LETTER TA
\u0D25>\uE025;  # LETTER THA
\u0D26>\uE026;  # LETTER DA
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\u0D27>\uE027;  # LETTER DHA
\u0D28>\uE028;  # LETTER NA
\u0D2A>\uE02A;  # LETTER PA
\u0D2B>\uE02B;  # LETTER PHA
\u0D2C>\uE02C;  # LETTER BA
\u0D2D>\uE02D;  # LETTER BHA
\u0D2E>\uE02E;  # LETTER MA
\u0D2F>\uE02F;  # LETTER YA
\u0D30>\uE030;  # LETTER RA
\u0D31>\uE031;  # LETTER RRA
\u0D32>\uE032;  # LETTER LA
\u0D33>\uE033;  # LETTER LLA
\u0D34>\uE034;  # LETTER LLLA
\u0D35>\uE035;  # LETTER VA
\u0D36>\uE036;  # LETTER SHA
\u0D37>\uE037;  # LETTER SSA
\u0D38>\uE038;  # LETTER SA
\u0D39>\uE039;  # LETTER HA
\u0D3E>\uE03E;  # VOWEL SIGN AA
\u0D40>\uE040;  # VOWEL SIGN I
\u0D41>\uE041;  # VOWEL SIGN U
\u0D42>\uE042;  # VOWEL SIGN UU
\u0D43>\uE043;  # VOWEL SIGN VOCALIC R
\u0D46>\uE046;  # VOWEL SIGN E
\u0D48>\uE048;  # VOWEL SIGN AI
\u0D4D>\uE04D;  # SIGN VIRAMA
\u0D57>\uE057;  # AU LENGTH MARK
\u0D61>\uE061;  # LETTER VOCALIC RR
\u0D66>\uE066;  # DIGIT ZERO
\u0D67>\uE067;  # DIGIT ONE
\u0D68>\uE068;  # DIGIT TWO
\u0D69>\uE069;  # DIGIT THREE
\u0D6A>\uE06A;  # DIGIT FOUR
\u0D6C>\uE06C;  # DIGIT SIX
\u0D6D>\uE06D;  # DIGIT SEVEN
\u0D6E>\uE06E;  # DIGIT EIGHT
\u0D6F>\uE06F;  # DIGIT NINE
#   :: NFC (NFD) ;
# eof

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
  jar/com/ibm/icu/impl/data/Transliterator_Malayalam_InterIndic.txt
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# InterIndic-Malayalam
#:: NFD (NFC):
\ue001>\u0d02; # REMAP (indicExceptions.txt): \u0d01>\u0d02 = SIGN CANDRABINDU>SIGN ANUSVARA
\ue002>\u0d02; # SIGN ANUSVARA
\ue003>\u0d03; # SIGN VISARGA
\ue005>\u0d05; # LETTER A
\ue006>\u0d06; # LETTER AA
\ue007>\u0d07; # LETTER I
\ue008>\u0d08; # LETTER II
\ue009>\u0d09; # LETTER U
\ue00a>\u0d0a; # LETTER UU
\ue00b>\u0d0b; # LETTER VOCALIC R
\ue00c>\u0d0c; # LETTER VOCALIC L
\ue00d>\u0d0d; # FALLOWBACK LETTER E
\ue00e>\u0d0e; # LETTER E
\ue00f>\u0d0f; # LETTER EE
\ue010>\u0d10; # LETTER AI
\ue011>\u0d11; # FALLOWBACK TO O
\ue012>\u0d12; # LETTER O
\ue013>\u0d13; # LETTER OO
\ue014>\u0d14; # LETTER AU
\ue015>\u0d15; # LETTER KA
\ue016>\u0d16; # LETTER KHA
\ue017>\u0d17; # LETTER GA
\ue018>\u0d18; # LETTER GHA
\ue019>\u0d19; # LETTER NGA
\ue01a>\u0d1a; # LETTER CA
\ue01b>\u0d1b; # LETTER CHA
\ue01c>\u0d1c; # LETTER JA
\ue01d>\u0d1d; # LETTER JHA
\ue01e>\u0d1e; # LETTER NYA
\ue01f>\u0d1f; # LETTER TTA
\ue020>\u0d20; # LETTER TTHA
\ue021>\u0d21; # LETTER DDA
\ue022>\u0d22; # LETTER DDHA
\ue023>\u0d23; # LETTER NNA
\ue024>\u0d24; # LETTER TA
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# Rules are predicated on running NFD first, and NFC afterwards
#: [\u0000-\u007F \u0370-\u03FF [Greek:] [:nonspacing mark:]]
#: MINIMAL FILTER GENERATED FOR: Greek-Latin
#: [\u0000-\u007F \u0370-\u037F \u0380-\u038F \u0391-\u0396 \u0398-\u039D \u039F-\u03A5 \u03A7-\u03AA \u03A9-\u03AD \u03AE-\u03AF \u03B0-\u03B6 \u03B8-\u03BB \u03BC-\u03BF \u1E17 \u1E19-\u1E1F \u1E20-\u1E24 \u1E28-\u1E2B \u1E34-\u1E3A \u1E49-\u1E4E \u1E50-\u1E53 \u1E62-\u1E66 \u1E6B-\u1E6F \u1E70-\u1E73 \u1E75-\u1E78 \u1E7C-\u1E7E \u1E92-\u1E96 \u1E9A-\u1E9C \u1EB0-\u1EB2 \u1EC0-\u1EC2 \u1ED0-\u1ED2 \u1ED4-\u1ED6 \u1ED8-\u1EDB \u1EDE-\u1EFF]
#: NFD (NFC) ;

# TEST CASES

# —
#
#
#
#
#,
#
# Useful variables
$lower = [[:latin:]:greek:] & [[:Ll:]];
$glower = [[:greek:] & [[:Ll:]]];
$upper = [[:latin:]:greek:] & [[:Lu:]] ;
$accent = [[:M:]] ;

# NOTE: restrict to just the Greek & Latin accents that we care about
# TODO: broaden out once interation is fixed
$accentMinus = [ \u0300-\u0345 & [[:M:]] - \u0338] ;

$macron = \u0304 ;
$ddot = \u0308 ;
$ddotmac = [$ddot$macron];

$lcgvowel = [] ;
$ucgvowel = [] ;
$gvowel = [$lcgvowel $ucgvowel] ;
$lcgvowelC = [$lcgvowel $accent] ;

$evowel = [aeiouyAEIOUY];
$evowel2 = [iuyIUY];
$vowel = [ $evowel $gvowel] ;

$gammaLike = [] ;
$egammaLike = [GKXCgkxc] ;
$smooth = ;
$rough = ;
$iotasub = ;

$evowel_i = [$evowel-[iI]] ;
$evowel2_i = [uyUY];

$underbar = \u0331;

$afterLetter = [\L:] [[:M:]\']* ;
$beforeLetter = [[:M:]\']* [\L:] ;
$beforeLower = $accent * $lower ;

$snotLetter = [^[\L][:M:]] ;
$sunder = ;

# Fix punctuation
# preserve original
\; <> \; $under ;
\? <> \? $under ;

\; <> \? ;
\- <> \;
# CIRCUMFLEX: convert greek circumflex to normal one. Could use tilde or inverted breve

\u0302 \u0300 \\

# IOTA: convert iota subscript to iota
# first make previous alpha long!

$\text{accent\_minus} = [[\text{accent}]-[\text{iotasub}\text{macron}]]);

\text{accent\_minus} * \text{iotasub} > | \text{macron} ;
\text{accent\_minus} * \text{iotasub} > | \text{macron} ;

# now convert to uppercase if after uppercase, ow to lowercase

Supper $\text{accent} * \{ \text{iotasub} > I ;$
\text{iotasub} > i ;$

| S1 $\text{iotasub} < (\text{sevowel $\text{macron}$ $\text{accent\_minus}$}) i ;$
| S1 $\text{iotasub} < (\text{sevowel $\text{macron}$ $\text{accent\_minus}$}) I ;$

# BREATHING

# Convert rough breathing to h, and move before letters.

# Make A ` x = > H a x

($\text{macron}?)$rough | $\text{beforeLower} > H | S1 ;
$\text{rough} | $\text{beforeLower} > H | ;
$\text{rough} | $\text{beforeLower} > H | ;
($\text{ddot}?)$rough | $\text{beforeLower} > H | S1 ;
$\text{rough} | $\text{beforeLower} > H | ;
$\text{rough} | $\text{beforeLower} > H | ;
($\text{ddot}?)$rough | $\text{beforeLower} > H | S1 ;

# Make A x ` = > H a x

($\text{glower $\text{macron}?}$)$rough > H | S1 ;
($\text{glower}$)$rough > H | S1 ;
($\text{glower}$)$rough > H | S1 ;
($\text{glower $\text{ddot}?}$)$rough > H | S1 ;
($\text{glower}$)$rough > H | S1 ;
($\text{glower $\text{ddot}?}$)$rough > H | S1 ;

#Otherwise, make x ` into h x and X ` into H X

($\text{lgcvowel + $\text{ddotmac}?}$)$rough > h | S1 ;
($\text{gvowel + $\text{ddotmac}?}$)$rough > H | S1 ;
# Go backwards with H

| $1 $rough < h (Sevowel $smacron $sddot? $sevowel2_i $smacron?) ; |
| $1 $rough < h (Sevowel $sddot? $sevowel2 $smacron?) ; |
| $1 $rough < h (Sevowel $smacron? $sddot?) ; |

| $1 $rough < H ([AEIOUY] $smacron $sddot? $sevowel2_i $smacron?) ; |
| $1 $rough < H ([AEIOUY] $sddot? $sevowel2 $smacron?) ; |
| $1 $rough < H ([AEIOUY] $smacron? $sddot?) ; |

# titlecase, have to fix individually
# in the future, we should add &uppercase() to make this easier

| A $1 $rough < H a ($smacron $sddot? $sevowel2_i $smacron?) ; |
| E $1 $rough < H e ($smacron $sddot? $sevowel2_i $smacron?) ; |
| I $1 $rough < H i ($smacron $sddot? $sevowel2_i $smacron?) ; |
| O $1 $rough < H o ($smacron $sddot? $sevowel2_i $smacron?) ; |
| U $1 $rough < H u ($smacron $sddot? $sevowel2_i $smacron?) ; |
| Y $1 $rough < H y ($smacron $sddot? $sevowel2_i $smacron?) ; |

| A $1 $rough < H a ($sddot? $sevowel2 $smacron?) ; |
| E $1 $rough < H e ($sddot? $sevowel2 $smacron?) ; |
| I $1 $rough < H i ($sddot? $sevowel2 $smacron?) ; |
| O $1 $rough < H o ($sddot? $sevowel2 $smacron?) ; |
| U $1 $rough < H u ($sddot? $sevowel2 $smacron?) ; |
| Y $1 $rough < H y ($sddot? $sevowel2 $smacron?) ; |

# Now do smooth

#delete smooth breathing for Latin
$smooth > ;

# insert in Greek
# the assumption is that all Marks are on letters.

| $1 $smooth < SnotLetter { ([R]) } [^hHSsmooth$rough] ; |
| $1 $smooth < SnotLetter { ($sevowel $smacron? $sevowel2 $smacron?) } [^$smooth$rough] ; |
| $1 $smooth < SnotLetter { ($sevowel $smacron?) } [^$sevowel2$smooth$rough] ; |

# TODO: preserve smooth/rough breathing if not
# on initial vowel sequence

# need to have these up here so the rules don't mask

# remove now superfluous macron when returning

< A $macron ;
< a $macron ;

<> e $macron ;
<> E $macron ;

<> ph ;
| $beforeLower <> Ps ;
<> PS ;

| $beforeLower <> Ph ;
<> PH ;
<> ps ;

<> o $macron ;
<> O $macron ;

# NORMAL

<> a ;
<> A ;

<> b ;
<> B ;

| $gammaLike <> n | $egammaLike ;
<> g ;
| $gammaLike <> N | $egammaLike ;
<> G ;

<> d ;
<> D ;

<> e ;
<> E ;

<> z ;
<> Z ;

<> th ;
| $beforeLower <> Th ;
<> TH ;
# otherwise (isolated) = initial
<> s $underbar;
<> s ;

[Pp] { <> \S ;
<> S ;

<> t ;
<> T ;

$vowel { } <> u ;
<> y ;
$vowel { <> U ;
<> Y ;

<> ch ;
| $beforeLower <> Ch ;
<> CH ;

# Completeness for ASCII

Signore = [[:Mark:]"]* ;

| k < c ;
| ph < f ;
| i < j ;
| k < q ;
| b < v } $vowel ;
| b < w } $vowel ;
| u < v ;
| u < w ;
| K < C ;
| Ph < F ;
| I < J ;
| K < Q ;
| B < V } $vowel ;
| B < W } $vowel ;
| U < V ;
| U < W ;

$rough } Signore [:UppercaseLetter:] > H ;
Signore [:UppercaseLetter:] [ $rough > H ;
Srough < H ;
$rough <> h ;

# Completeness for Greek

>| ;
Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icom4j-2-6-1-
jar/com/ibm/icu/impl/data/Transliterator_Greek_Latin.txt

No license file was found, but licenses were detected in source scan.

#-----------------------------------------------
# Copyright (c) 1999-2001, International Business Machines
# Corporation and others. All Rights Reserved.
#-----------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Hiragana_Katakana.txt,v $
# $Date: 2002/03/02 00:27:27 $
# $Revision: 1.5 $
# note: a global filter is more efficient, but MUST include all source chars
:: [\000-\007E \3001-\3002 \3099-\309C \30A1-\30FC \uFF61-\uFF9F[:Hiragana:][:Katakana:][:nonspacing mark:]] ;
:: NFKC();

# Hiragana-Katakana

# This is largely a one-to-one mapping, but it has a few kinks:

# 1. The Katakana va/vi/ve/vo (30F7-30FA) have no Hiragana equivalents. We use Hiragana wa/wi/we/wo (# (308F-3092) with a voicing mark (3099), which is semantically equivalent. However, this is a non-roundtripping transformation.

# 2. The Katakana small ka/ke (30F5,30F6) have no Hiragana equivalents. We convert them to normal Hiragana ka/ke (304B,3051). This is a one-way information-losing transformation and precludes round-tripping of 30F5 and 30F6.

# 3. The combining marks 3099-309C are in the Hiragana block, but they apply to Katakana as well, so we leave them untouched.

# 4. The Katakana prolonged sound mark 30FC doubles the preceding vowel. This is a one-way information-losing transformation from Katakana to Hiragana.

# 5. The Katakana middle dot separates words in foreign expressions; we leave this unmodified.

# The above points preclude successful round-trip transformations of arbitrary input text. However, they provide naturalistic results that should conform to user expectations.

# Combining equivalents va/vi/ve/vo
  <> ;
  <> ;
  <> ;
  <> ;

# One-to-one mappings, main block
# 3041:3094 <-> 30A1:30F4
# 309D.E <-> 30FD.E
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# One-way Katakana-Hiragana xform of small K ka/ke to
# normal H ka/ke.
<;
<;

# Katakana followed by a prolonged sound mark 30FC has
# its final vowel doubled. This is a Katakana-Hiragana
# one-way information-losing transformation. We
# include the small Katakana (e.g., small A 3041) and
# do not distinguish them from their large
# counterparts. It doesn't make sense to double a
# small counterpart vowel as a small Hiragana vowel, so
# we don't do so. In natural text this should never
# occur anyway. If a 30FC is seen without a preceding
# vowel sound (e.g., after n 30F3) we do not change it.

### $long = ;

# The following categories are Hiragana, not Katakana
# as might be expected, since by the time we get to the
# 30FC, the preceding character will have already been
# transformed to Hiragana.

# {The following mechanically generated from the
# Unicode 3.0 data:}

$x_a = [ \$
   \$
   \$
   ];

$x_i = [ \$
   \$
   \$
   ];

$x_u = [ \$
   \$
   \$
   ];

$x_e = [ \$
   \$
   \$
   ];

$x_o = [ \$
   \$
   \$
   ];
# note: a global filter is more efficient, but MUST include all source chars!!
:: ([\u0000-\u007E \u3001\u3002 \u3099-\u309C \u30A1-\u30FC \uFF61-\uFF9F[:Hiragana:] [:Katakana:] [:nonspacing mark:]])

# eof

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
   jar/com/ibm/icu/impl/data/Transliterator_Hiragana_Katakana.txt
No license file was found, but licenses were detected in source scan.

#-----------------------------------------------
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#-----------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Gurmukhi_InterIndic.txt,v $
# $Date: 2002/09/19 18:11:23 $
# $Revision: 1.12 $
#-----------------------------------------------

# Gurmukhi-InterIndic
#: NFD (NFC) ;

\u0A16\u0A3C>\xE059; # LETTER KHHA
\u0A17\u0A3C>\xE05A; # LETTER GHHA
\u0A1C\u0A3C>\xE05B; # LETTER ZA
\u0A38\u0A3C>\xE036; # LETTER SHA
\u0A32\u0A3C>\xE033; # LETTER LLA
\u0A2B\u0A3C>\xE05E; # LETTER FA
\u0A02>\xE002; # SIGN Bindi
\u0A05>\xE005; # LETTER A
\u0A06>\xE006; # LETTER AA
\u0A07>\xE007; # LETTER I
\u0A08>\xE008; # LETTER II
\u0A09>\xE009; # LETTER U
\u0A0A>\xE00A; # LETTER UU
\u0A0C>\xE032; # Fallback : Vocallic LA
\u0A0F>\xE00F; # LETTER EE
Found in path(s):

* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1.jar/com/ibm/icu/impl/data/Transliterator_Gurmukhi_InterIndic.txt
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# *--------------------------------------------------------------------
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# *--------------------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_InterIndic_Oriya.txt,v $
# $Date: 2002/09/19 18:11:23 $
# $Revision: 1.9 $
# *--------------------------------------------------------------------

# InterIndic-Oriya
#:: NFC (NFD) ;
\ued01>\u09c1; # SIGN CANDRABINDU
\ued02>\u09c2; # SIGN ANUSVARA
\ued03>\u09c3; # SIGN VISARGA
\ued05>\u09c5; # LETTER A
\ued06>\u09c6; # LETTER AA
\ued07>\u09c7; # LETTER I
\ued08>\u09c8; # LETTER II
\ued09>\u09c9; # LETTER U
\ued0a>\u09ca; # LETTER UU
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\ue052 > \u0952;  # STRESS SIGN ANUDATTA
\ue053 > \u0953;  # GRAVE ACCENT
\ue054 > \u0954;  # ACUTE ACCENT
\ue058 > \u0958;  # LETTER QA (For Urdu)
\ue059 > \u0959;  # LETTER KHHA (For Urdu)
\ue05a > \u095a;  # LETTER GHHA (For Urdu)
\ue05b > \u095b;  # LETTER ZA (For Urdu)
\ue05c > \u095c;  # LETTER DDDHA (pronounced RRA)
\ue05d > \u095d;  # LETTER RHA (pronounced RRHA)
\ue05e > \u095e;  # LETTER FA
\ue05f > \u095f;  # LETTER YYA
\ue060 > \u0960;  # LETTER VOCALIC RR
\ue061 > \u0961;  # LETTER VOCALIC LL
\ue062 > \u0962;  # VOWEL SIGN VOCALIC L
\ue063 > \u0963;  # VOWEL SIGN VOCALIC LL
\ue064 > \u0964;  # DANDA
\ue065 > \u0965;  # DOUBLE DANDA
\ue066 > \u0966;  # DIGIT ZERO
\ue067 > \u0967;  # DIGIT ONE
\ue068 > \u0968;  # DIGIT TWO
\ue069 > \u0969;  # DIGIT THREE
\ue06a > \u096a;  # DIGIT FOUR
\ue06b > \u096b;  # DIGIT FIVE
\ue06c > \u096c;  # DIGIT SIX
\ue06d > \u096d;  # DIGIT SEVEN
\ue06e > \u096e;  # DIGIT EIGHT
\ue06f > \u096f;  # DIGIT NINE
\ue070>\u0970;  # ABBREVIATION SIGN
\ue071>\u0930;  # LETTER RA WITH MIDDLE DIAGONAL
\ue072>\u0930;  # LETTER RA WITH LOWER DIAGONAL
\ue073>;  # RUPEE MARK
\ue074>;  # RUPEE SIGN
\ue075>;  # CURRENCY NUMERATOR ONE
\ue076>;  # CURRENCY NUMERATOR TWO
\ue077>;  # CURRENCY NUMERATOR THREE
\ue078>;  # CURRENCY NUMERATOR FOUR
\ue079>;  # CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR
\ue07A>;  # CURRENCY DENOMINATOR SIXTEEN
\ue07B>;  # ISSHAR
\ue07C>;  # TIPPI
\ue07D>;  # ADDAK
\ue07E>;  # IRI
\ue07F>;  # URA
\ue080>;  # EK ONKAR

#    \u0970 # UNMAPPED Devanagari-InterIndic: ABBREVIATION SIGN
Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
jar/com/ibm/icu/impl/data/Transliterator_InterIndic_Devanagari.txt
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# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_InterIndic_Tamil.txt,v $
# $Date: 2002/09/19 18:11:23 $
# $Revision: 1.10 $

# InterIndic-Tamil
#: NFC :
\ue001>\u0b82; # Fallback sign Candrabindu
\ue002>\u0b82; # Sign anusvara
\ue003>\u0b83; # Sign visarga
\ue005>\u0b85; # Letter a
\ue006>\u0b86; # Letter aa
\ue007>\u0b87; # Letter i
\ue008>\u0b88; # Letter ii
\ue009>\u0b89; # Letter u
\ue010>\u0b8a; # Letter uu
\ue011>\u0b90; # Fallback
\ue012>\u0b91; # Letter e
\ue013>\u0b92; # Fallback
\ue014>\u0b93; # Letter o
\ue015>\u0b94; # Letter au
\ue016>\u0b95; # Letter ka
\ue017>\u0b96; # Letter kha>letter ka
\ue018>\u0b97; # Letter gh<letter ka
\ue019>\u0b98; # Letter nga
\ue020>\u0b99; # Letter ca
\ue021>\u0b9a; # Letter cha>letter ca
\ue022>\u0b9b; # Letter ja>letter ca
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---

# Oriya-InterIndic
#: NFC (NFC) ;

---

# Oriya-InterIndic
#: NFD (NFC) ;

---

# Oriya-InterIndic
#: NFD (NFC) ;
\u0B3C>\uE03C;  # SIGN NUKTA
\u0B3D>\uE03D;  # SIGN AVAGRAHA
\u0B3E>\uE03E;  # VOWEL SIGN AA
\u0B3F>\uE03F;  # VOWEL SIGN I
\u0B40>\uE040;  # VOWEL SIGN II
\u0B41>\uE041;  # VOWEL SIGN U
\u0B42>\uE042;  # VOWEL SIGN UU
\u0B43>\uE043;  # VOWEL SIGN VOCALIC R
\u0B47>\uE047;  # VOWEL SIGN E
#
\u0B4D>\uE04D;  # SIGN VIRAMA
\u0B56>\uE056;  # AI LENGTH MARK
\u0B57>\uE057;  # AU LENGTH MARK
\u0964>\u0e064;  # DANDA
\u0965>\u0e065;  # DOUBLE DANDA
#
\u0B5F>\uE05F;  # LETTER YYA
\u0B60>\uE060;  # LETTER VOCALIC RR
\u0B61>\uE061;  # LETTER VOCALIC LL
\u0B66>\uE066;  # DIGIT ZERO
\u0B67>\uE067;  # DIGIT ONE
\u0B68>\uE068;  # DIGIT TWO
\u0B69>\uE069;  # DIGIT THREE
\u0B6A>\uE06A;  # DIGIT FOUR
\u0B6B>\uE06B;  # DIGIT FIVE
\u0B6C>\uE06C;  # DIGIT SIX
\u0B6D>\uE06D;  # DIGIT SEVEN
\u0B6E>\uE06E;  # DIGIT EIGHT
\u0B6F>\uE06F;  # DIGIT NINE
\u0B70>\u0e07B;  # ISSHAR
#
:: NFC (NFD) ;
# eof

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
  jar/com/ibm/icu/impl/data/Transliterator_Oriya_InterIndic.txt
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#----------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Han_Latin.txt,v $
# $Date: 2002/12/11 23:18:04 $
# $Revision: 1.8 $
#----------------------------------

# Warning: does not do round-trip mapping!!
# Convert CJK characters

```bash
$terminalPunct = [\x01\x02\x03\x04\x05\x06\x07\x08\x09\x0a\x0b\x0c\x0d\x0e\x0f\x10\x11\x12\x13\x14\x15\x16\x17\x18\x19\x1a\x1b\x1c\x1d\x1e\x1f\x20\x21\x22\x23\x24\x25\x26\x27\x28\x29\x2a\x2b\x2c\x2d\x2e\x2f\x30\x31\x32\x33\x34\x35\x36\x37\x38\x39\x3a\x3b\x3c\x3d\x3e\x3f\x40\x41\x42\x43\x44\x45\x46\x47\x48\x49\x4a\x4b\x4c\x4d\x4e\x4f\x50\x51\x52\x53\x54\x55\x56\x57\x58\x59\x5a\x5b\x5c\x5d\x5e\x5f\x60\x61\x62\x63\x64\x65\x66\x67\x68\x69\x6a\x6b\x6c\x6d\x6e\x6f\x70\x71\x72\x73\x74\x75\x76\x77\x78\x79\x7a\x7b\x7c\x7d\x7e\x7f\x80\x81\x82\x83\x84\x85\x86\x87\x88\x89\x8a\x8b\x8c\x8d\x8e\x8f\x90\x91\x92\x93\x94\x95\x96\x97\x98\x99\x9a\x9b\x9c\x9d\x9e\x9f\xa0\xa1\xa2\xa3\xa4\xa5\xa6\xa7\xa8\xa9\xaa\xab\xac\xad\xae\xaf\xb0\xb1\xb2\xb3\xb4\xb5\xb6\xb7\xb8\xb9\xba\xbb\xbc\xbd\xbe\xbf\xc0\xc1\xc2\xc3\xc4\xc5\xc6\xc7\xc8\xc9\xca\xcb\xcc\xcd\xce\xcf\xd0\xd1\xd2\xd3\xd4\xd5\xd6\xd7\xd8\xd9\xda\xdb\xdc\xdd\xde\xdf\xe0\xe1\xe2\xe3\xe4\xe5\xe6\xe7\xe8\xe9\xea\xeb\xec\xed\xee\xef\xf0\xf1\xf2\xf3\xf4\xf5\xf6\xf7\xf8\xf9\xfa\xfb\xfc\xfd\xfe\xff];

$initialPunct = [:Ps:]|[:Pi:];
```

# add space between any terminal punctuation and letters, and
# between letters and Han or initial punct

```bash
$terminalPunct { } [:L:] > " ";
[:L:] { } [[:Han:] $initialPunct] > " ";
```

# below, the rules add space after ideographs. Remove that space before terminals

```bash
{ "\"" } $terminalPunct > ;
```

# remove all spaces going backwards

```bash
## \"\"
```

# Start RAW data for converting CJK characters

```bash
>shung\;  
>zhung\;  
>chuàng\;  
>chung\;  
>zhuàng\;  
>chuáng\; 
>zhung\;  
>zhuàng\;  
>zhuàng\;  
>chung\;  
>shung\;  
>zhung\; 
>zhung\;  
>zhung\;  
>shung\;  
>chuàng\;  
>chung\;  
>chuàng\;  
>shung\;  
>shung\; 
>chuáng\;  
>chuáng\;  
>shuàng\;  
>chung\;  
>shung\;  
>chuáng\;  
>chuáng\;  
>shung\;  
>shung\;  
>chuàng\;  
>chuàng\;  
>shuàng\;  
>chung\;  
>chung\;  
>chuàng\;  
>chuàng\;  
>shung\;  
>shung\;  
>chuàng\;  
>chuàng\;  
>shuàng\;  
>chung\;  
>chung\;  
>chuàng\;  
>chuàng\;  
>shung\;  
>shung\;
```
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Open Source Used In Data Center Network Manager 11.5(1) 28061
Open Source Used In Data Center Network Manager 11.5(1) 28064
Open Source Used In Data Center Network Manager 11.5(1) 28066
Open Source Used In Data Center Network Manager 11.5(1) 28086
Open Source Used In Data Center Network Manager 11.5(1)  28091
zhòu; xíng; pèng; gng; tóng; huàn; xìng; diàn; dòng; run; róng; táng; cóng; piáo; tóng; guài; gng; yng; run; jio; jio; shuí; chén; líng; xun; shn; lng; gng; bàng; zhòu; chái; lián; láng; xín; yíng; chn; nìng; chóu; tng; huán; yàng; méng; qiáo; min; xiàn; huàn;
Open Source Used In Data Center Network Manager 11.5(1)  28104
Open Source Used In Data Center Network Manager 11.5(1) 28105
Open Source Used In Data Center Network Manager 11.5(1)  28116
Open Source Used In Data Center Network Manager 11.5(1) 28120
Open Source Used In Data Center Network Manager 11.5(1) 28132
>chén
>zhèn
>dìn
>dìo
>jio
>xìào
>yáng
>zhèn
>liáo
>jio
>jio
>zhuò
>lin
>jio
>jio
>zhí
>fáo
>jiao
>zhùn
>zhúo
>zhúo
>zhúo
>zhúo
>duàn
>háng
>fng
>jng
>zhào
>sho
>jiàn
>pió
>zhàn
>guài
>tio
>chì
>yáng
>chn
>lng
>biàn
>zòng
>
Open Source Used In Data Center Network Manager 11.5(1)  28147
Open Source Used In Data Center Network Manager 11.5(1) 28152
Open Source Used In Data Center Network Manager 11.5(1) 28159
Open Source Used In Data Center Network Manager 11.5(1) 28175
Open Source Used In Data Center Network Manager 11.5(1)  28189
Open Source Used In Data Center Network Manager 11.5(1)  28195

>luán\;
>cng\;
>xio\;
>líng\;
>héng\;
>zho\;
>miáo\;
>qin\;
>gng\;
>yun\;
>wng\;
>liáo\;
>xuán\;
>zhn\;
>méng\;
>líng\;
>jin\;
>xián\;
>jin\;
>jin\;
>bio\;
>bio\;
>jin\;
>chén\;
>jng\;
>jng\;
>líng\;
>cho\;
>mín\;
>mín\;
>xián\;
>mián\;
>fng\;
>mián\;
>tín\;
>héng\;
>héng\;
>tun\;
>qián\;
>dín\;
>dng\;
>zhn\;
>yuán\;
>cháo\;
>mg\;
>máng\;
>cháo\;
>dng\;
Open Source Used In Data Center Network Manager 11.5(1) 28212
Open Source Used in Data Center Network Manager 11.5(1) 28215
Open Source Used In Data Center Network Manager 11.5(1)  28260
Open Source Used In Data Center Network Manager 11.5(1) 28278
Open Source Used In Data Center Network Manager 11.5(1) 28325

> hū\ ;
> yu\ ;
> chū\ ;
> yu\ ;
> shī\ ;
> cáo\ ;
> cn\ ;
> hū\ ;
> yu\ ;
> qiè\ ;
> fn\ ;
> bū\ ;
> fū\ ;
> tn\ ;
> shū\ ;
> dū\ ;
> dō\ ;
> gu\ ;
> jī\ ;
> fn\ ;
> rèn\ ;
> dūo\ ;
> chī\ ;
> bèi\ ;
> nǐ\ ;
> huà\ ;
> xn\ ;
> yuè\ ;
> jīn\ ;
> àng\ ;
> fēn\ ;
> nán\ ;
> dū\ ;
> xùn\ ;
> yún\ ;
> dū\ ;
> nán\ ;
> gu\ ;
> duò\ ;
> shī\ ;
> niè\ ;
> tuò\ ;
> pán\ ;
> fān\ ;
> dài\ ;
> mào\ ;
> guì\ ;
> nán\ ;
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Open Source Used In Data Center Network Manager 11.5(1) 28348
Open Source Used In Data Center Network Manager 11.5(1) 28372
Open Source Used In Data Center Network Manager 11.5(1) 28378
Open Source Used In Data Center Network Manager 11.5(1)  28395
Open Source Used In Data Center Network Manager 11.5(1) 28401
Open Source Used In Data Center Network Manager 11.5(1) 28402
Open Source Used In Data Center Network Manager 11.5(1)  28439
Open Source Used In Data Center Network Manager 11.5(1) 28478
Open Source Used In Data Center Network Manager 11.5(1)  28512
Open Source Used In Data Center Network Manager 11.5(1) 28550
Open Source Used In Data Center Network Manager 11.5(1) 28551
## | wu < u;
## | bi < b;
## | ci < c;
## | di < d;
## | fu < f;
## | gu < g;
## | he < h;
## | ji < j;
## | ku < k;
## | li < l;
## | mi < m;
## | pi < p;
## | qi < q;
## | l < r;
## | si < s;
## | ti < t;
## | f < v;
## | wa < w;
## | xi < x;
## | yi < y;
## | zi < z;

# filter out the half-width hangul
:: [^\uFFBE-\uFFEE] fullwidth-halfwidth ();
## :: (lower) ;

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
  jar/com/ibm/icu/impl/data/Transliterator_Han_Latin.txt
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#---------------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Thai_ThaiSemi.txt,v $
# $Date: 2002/07/26 19:56:55 $
# $Revision: 1.3 $
#---------------------------------------------------------------

# The rules that convert space into semicolon are in this file;
# since they have to come BEFORE the break iterator.

$thai = [[:thai: ] \u0E01-\u0E3A\u0E40-\u0E5B] ;

$thai { ' ' } $thai > '; ' ;

Found in path(s):
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0 > \u0c66;  # FALLBACK FOR TAMIL
1 > \u0c67;

# :: NFC (NFC) ;
# eof

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2.6-1-
  jar/com/ibm/icu/impl/data/Transliterator_InterIndic_Telugu.txt
No license file was found, but licenses were detected in source scan.

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#-------------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_InterIndic_Gujarati.txt,v $
# $Date: 2002/09/19 18:11:23 $
# $Revision: 1.10 $
#-------------------------------------------------------------

# InterIndic-Gujarati
#:: NFC (NFC) ;
\ue001>\u0a81; # SIGN CANDRABINDU
\ue002>\u0a82; # SIGN ANUSVARA
\ue003>\u0a83; # SIGN VISARGA
\ue005>\u0a85; # LETTER A
\ue006>\u0a86; # LETTER AA
\ue007>\u0a87; # LETTER I
\ue008>\u0a88; # LETTER II
\ue009>\u0a89; # LETTER U
\ue00a>\u0a8a; # LETTER UU
\ue00b>\u0a8b; # LETTER VOCALIC R
\ue00c>\u0a8c>\u0a8c = LETTER VOCALIC L>LETTER L.A.VOWEL SIGN VOCALIC R
\ue00d>\u0a8d; # GUJARATI VOWEL CANDRA E
\ue00e>\u0a8f; # Fallback
\ue00f>\u0a8f; # InterIndic-Gujarati: LETTER EE (\u0a8f = LETTER E)
\ue010>\u0a90; # LETTER AI
\ue011>\u0a91; # Fallback
\ue012>\u0a93; # Fallback
\ue013>\u0a93; # Unmapped InterIndic-Gujarati: LETTER OO (\u0a93 = LETTER O)
\ue014>\u0a94; # LETTER AU
\ue015>\u0a95; # LETTER KA
\ue016>\u0a96; # LETTER KHA
\ue017>\u0a97; # LETTER GA
\ue018>\u0a98; # LETTER GHA
\ue019>\u0a99; # LETTER NGA
\ue075>; # CURRENCY NUMERATOR ONE
\ue076>; # CURRENCY NUMERATOR TWO
\ue077>; # CURRENCY NUMERATOR THREE
\ue078>; # CURRENCY NUMERATOR FOUR
\ue079>; # CURRENCY NUMERATOR ONE LESS THAN THE DENOMINATOR
\ue07a>; # CURRENCY DENOMINATOR SIXTEEN
\ue07b>; # ISSHAR
\uE07c>; # TIPPI
\uE07d>; # ADDAK
\uE07e>; # IRI
\uE07f>; # URA
\uE080>; # EK ONKAR
0 > \u0ae6; # FALLBACK FOR TAMIL
1 > \u0ae7;

#\ue080>; # UNMAPPED InterIndic-Gujarati: ISSHAR
#  :: NFC (NFD)
#  eof

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
jar/com/ibm/icu/impl/data/Transliterator_InterIndic_Gujarati.txt
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#----------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Latin_InterIndic.txt,v $
# $Date: 2002/03/02 00:27:26 $
# $Revision: 1.7 $
#----------------------------------------------

# Latin-InterIndic
#: NFD;
#\u0e00 reserved
#consonants
$chandrabindu=\ue001;
$anusvara=\ue002;
$visarga=\ue003;
#\u0e00 reserved
# w<vowel> represents the stand-alone form
$wa=\ue005;
$waa=\ue006;
$wi=\ue007;
$wii=\ue008;
$wu=\ue009;
$wuu=\ue00a;
$wr=\ue00b;
$wl=\ue00c;
$wce=\ue00d; # LETTER CANDRA E
$wse=\ue00e; # LETTER SHORT E
$we=\ue00f; # \u090f LETTER E
$wai=\ue010;
$wco=\ue011; # LETTER CANDRA O
$wso=\ue012; # LETTER SHORT O
$wo=\ue013; # \u0913 LETTER O
$wau=\ue014;
$ka=\ue015;
$kha=\ue016;
$ga=\ue017;
$gha=\ue018;
$nga=\ue019;
$ca=\ue01a;
$cha=\ue01b;
$ja=\ue01c;
$jha=\ue01d;
$nya=\ue01e;
$tta=\ue01f;
$ttha=\ue020;
$dda=\ue021;
$ddha=\ue022;
$na=\ue023;
$ta=\ue024;
$tha=\ue025;
$da=\ue026;
$dha=\ue027;
$na=\ue028;
$ena=\ue029; #compatibility
$pa=\ue02a;
$pha=\ue02b;
$ba=\ue02c;
$bha=\ue02d;
$ma=\ue02e;
$ya=\ue02f;
$ra=\ue030;
$rha=\ue031;
$la=\ue032;
$lla=\ue033;
$ela=\ue034; #compatibility
$va=\ue035;
$sha=\ue036;
$ssa=\ue037;
$sa=\ue038;
$sha=\ue039;
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$three=u069;   # DIGIT THREE
$four=u06a;    # DIGIT FOUR
$five=u06b;    # DIGIT FIVE
$six=u06c;     # DIGIT SIX
$seven=u06d;   # DIGIT SEVEN
$eight=u06e;   # DIGIT EIGHT
$nine=u06f;    # DIGIT NINE
# For all other scripts
$ecp0=u070;
$ecp1=u071;
$ecp2=u072;
$ecp3=u073;
$ecp4=u074;
$ecp5=u075;
$ecp6=u076;
$ecp7=u077;
$ecp8=u078;
$ecp9=u079;
$ecpA=u07a;
$ecpB=u07b;
$ecpC=u07c;
$ecpD=u07d;
$ecpE=u07e;
$ecpF=u07f;
# \u0970>; # UNMAPPED ABBREVIATION SIGN
$depVowelAbove=[\u0e03e-\u0e040\u0e045-\u0e04c];
$depVowelBelow=[\u0e041-\u0e044];
$endThing=[$danda$doubleDanda];
# $x was originally called '&'; $z was '%'
$x=[\virama\aa\ai\au\ii\i\uu\u];
$z=[bcdfghjklmnpqrstvwxyz];
$consonants=[[$ka-$ha]$z[$\u0095-\u009e995-\u009e9]]$uu0a15-\u0a39][\u0095-\u009e9]]$uu0b15-
$uu0b9][\u0b95-\u0bb9][\u0c15-\u0c39][\u0c95-\u0c9e9]]$uu0d15-\u0d39]];\n
\u0315 > Savagraha;
\u0303>$chandrabindu$anusvara;
\u0310>$chandrabindu;
\u0323>$visarga;
\u0314>$ka$virama$sa;
# convert to independent forms at start of word or syllable:
# dependent forms for roundtrip
\u0314$a\u0304>$aa;
\u0314ai>$ai;
\u0314au>$au;
\u0314ii>$ii;
\u0314iu$u0304>$ii;
\u0314i>$i;
\u0314u$u0304>$uu;
\u0314u>$u;
\u0314\u0325$rrh; \\
\u0314\u0325$rh; \\
\u0314\u0325$llh; \\
\u0314$e; \\
\u0314$o; \\
$e; \\
$e; \\
$sso; \\
# preceeded by consonants 
$consonants{ a\u0304>a; 
$consonants{ ai>a; 
$consonants{ au>a; 
$consonants{ ii>Ci; 
$consonants{ iu>ii; 
$consonants{ i>i; 
$consonants{ uu>u; 
$consonants{ uu>u; 
$consonants{ ru0325$uu>u; 
$consonants{ ru0325a>$ruh; 
$consonants{ ru0325a>$ruh; 
$consonants{ llh>$llh; 
$consonants{ llh>$llh; 
$consonants{ e>u; 
$consonants{ e>u; 
$consonants{ o>u; 
$consonants{ o>u; 
$consonants{ o>u; 
$consonants{ e>u; 
$consonants{ o>u; 
# e.g. keai -> {ka} {e} {wai}; k’ai -> {ka} {wai}; (ai) -> {{wai}} 
\u0314$waa; 
ai>$wai; 
au>$wau; 
\u0314swii; 
i>$swi; 
\u0314swuu; 
u>$wu; 
\u0314swrr; 
\u0314swr; 
\u0314swl; 
\u0314swl;
# rules for anusvara
n}r\u0325           > $na|$virama;
n}l\u0325           > $na|$virama;
n}na                > $na|$virama;
n\u0307][kg]        > $anusvara;
n\u0307]{n\u0307    > $anusvara;
n\u0304]{cj]        > $anusvara;
n\u0304]{n\u0303     > $anusvara;
n\u0323]{tdn}\u0323 > $anusvara;
n]tdn]             > $anusvara;
m]pbm]             > $anusvara;
n]ylvshr]          > $anusvara;
m\u0307]            > $anusvara;

# urdu compatibility
q>$uka|$virama;
k\u0331h\u0331>$ukha |$virama;
g\u0307> $ugha | $virama;
z > $ujha |$virama;
f > $ufa|$virama;

# dev
y\u0307>$uya|$virama;
l\u0331>$ela|$virama;
n\u0331>$ena|$virama;
n\u0307>$nga|$virama;
n\u0303>$nya|$virama;
n\u0323>$nna|$virama;
t\u0323h>$ttha|$virama;
t\u0323>$tta|$virama;
r\u0323h>$uddha|$virama;
r\u0323>$uddha|$virama;
d\u0323h>$ddha|$virama;
d\u0323>$dda|$virama;
kh>$kha|$virama;
k>$ka|$virama;
gh>$gha|$virama;
g>$ga|$virama;
ch>$cha|$virama;
c>$ca|$virama;
jh>$jha|$virama;
j>$ja|$virama;
ny>$nya|$virama;
th>$tha|$virama;
ddh>$ddha|$virama;
th>$tha|$virama;
t>$ta|$virama;
dh>$dha|$virama;
d>$da|$virama;
n>$na|$virama;
ph>$pha|$virama;
p>$pa|$virama;
bh>$bha|$virama;
b>$ba|$virama;
m>$ma|$virama;
y>$ya|$virama;
r{u0331}>$ral|$virama;
r>$ra|$virama;
l{u0323}>$lla|$virama;
l>$la|$virama;
v>$va|$virama;
w>$va|$virama;
sh>$sha|$virama;
ss>$ssa|$virama;
s{u0323}>$ssa|$virama;
s{u0301}>$sha|$virama;
s>$sa|$virama;
h>$ha|$virama;
'.'>$danda;
$ddanda'.'>$doubleDanda;
$depVowelAbove{'~'}>$anusvara;
$depVowelBelow{'~'}>$chandrabindu;
# convert to dependent forms after consonant with no vowel:
# e.g. kai -> {ka} {virama} ai -> {ka} {ai}
#$virama aa>$aa;
$virama a{u0304}>$aa;
$virama ai>$ai;
$virama au>$au;
$virama ii>$ii;
$virama i{u0304}>$ii;
$virama i'>$i;
#$virama uu>$uu;
$virama u{u0304}>$uu;
$virama u'>$u;
#$virama rrh>$rrh;
$virama ru{u0325}u{u0304}'>$rrh;
#$virama rh>$rh;
$virama \'u0325a>$rh;
$virama \'u0325>$rh;
$virama \'u0325u0304>$llh;
$virama lh>$llh;
$virama \'u0325u0304>$llh;
$virama e'u0304>$ce;
$virama o'u0304>$so;
$virama a'>$;
$virama e'u0306>$ce;
$virama o'u0306>$co;
$virama e>$se;
$virama o>$so;

# otherwise convert independent forms when separated by ': k'ai -> {ka} {virama} {wai}
#$virama''aa>$waa;
$virama''au0304>$waa;
$virama''ai>$wai;
$virama''au>$wau;
#$virama''ii>$wii;
$virama''iu0304>$wii;
$virama''i>$wi;
#$virama''uu>$wuu;
$virama''u'u0304>$wuu;
$virama''u>$wu;
#$virama''rrh>$wrr;
$virama''ru0325u0304>$wrr;
#$virama''rh>$wr;
$virama''ru0325>$wr;
$virama''ru0325u0304>$wll;
#$virama''llh>$wl;
$virama''ru0325>$wl;
$virama''e'u0304>$we;
$virama''o'u0304>$wo;
$virama''a'>$wa;
$virama''e'u0306>$wce;
$virama''o'u0306>$wco;
$virama''e'>$wse;
$virama''o'>$wso;
# no virama
"a'u0304>$waa;
"ai>$wai;
"au>$wau;
"i'u0304>$wii;
"i'>$wi;
"u'u0304>$wuu;
"u'>$wu;
"ru0325u0304>$wrr;
"r\u0325>$wr;
"Tu0325\u0304>$wII;
"Tu0325>$wI;
"e\u0304>$we;
"o\u0304>$wo;
"a>$wa;
"e\u0306>$we;
"o\u0306>$wo;
"e>$we;
"o>$wo;

$virama ] [ $z ] > $virama;
$virama ]' > $virama;
$virama ]$endThing>
0>$zero;
1>$one;
2>$two;
3>$three;
4>$four;
5>$five;
6>$six;
7>$seven;
8>$eight;
9>$nine;
">
#: :: NFC (NFD) ;

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* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2-6-1-
jar/com/ibm/icu/impl/data/Transliterator_Latin_InterIndic.txt
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# $Date: 2002/09/19 18:11:23 $
# $Revision: 1.6 $
#-----------------------------------------------

# Kannada-InterIndic
\u0CC6\u0CD5\u0E047;  # VOWEL SIGN EE
\u0CC6\u0CCD\u0CD6\u0E048\ue04d;  # VOWEL SIGN AI
\u0CC6\u0CD6\u0E048;  # VOWEL SIGN AI
\u0CC6\u0CC2\u0CD5\u0E04B;  # VOWEL SIGN OO
\u0CC6\u0CC2\u0E04A;  # VOWEL SIGN O
\u0CBF\u0CD5\u0E040;  # VOWEL SIGN II
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# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Gujarati_InterIndic.txt,v $
# $Date: 2002/09/19 18:11:23 $
# $Revision: 1.6 $
#--------------------------------------------------------------

# Gujarati-InterIndic
#:: NFD (NFC) :
\u0a81>\ue001; # SIGN CANDRABINDU
Found in path(s):
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#-----------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Devanagari_InterIndic.txt,v $
# $Date: 2002/09/19 18:11:23 $
# $Revision: 1.10 $
#-----------------------------------------------------------
# Rules for Decomposed characters

\u0901>\uE001;  # SIGN CANDRABINDU
\u0902>\uE002;  # SIGN ANUSVARA
\u0903>\uE003;  # SIGN VISARGA
\u0905>\uE005;  # LETTER A
\u0906>\uE006;  # LETTER AA
\u0907>\uE007;  # LETTER I
\u0908>\uE008;  # LETTER II
\u0909>\uE009;  # LETTER U
\u090A>\uE00A;  # LETTER UU
\u090B>\uE00B;  # LETTER VOCALIC R
\u090C>\uE00C;  # LETTER VOCALIC L
\u090D>\uE00D;  # LETTER CANDRA E (For representing English sounds)
\u090E>\uE00E; # UNMAPPED LETTER SHORT E(For Southern Scripts)
\u090F>\uE00F;  # LETTER E
\u0910>\uE010;  # LETTER AI
\u0911>\uE011;  # LETTER CANDRA O (For representing English sounds)
\u0912>\uE012; # UNMAPPED LETTER SHORT O (For Southern Scripts)
\u0913>\uE013;  # LETTER O
\u0914>\uE014;  # LETTER AU
\u0915>\uE015;  # LETTER KA
\u0916>\uE016;  # LETTER KHA
\u0917>\uE017;  # LETTER GA
\u0918>\uE018;  # LETTER GHA
\u0919>\uE019;  # LETTER NGA
\u091A>\uE01A;  # LETTER CA
\u091B>\uE01B;  # LETTER CHA
\u091C>\uE01C;  # LETTER JA
\u091D>\uE01D;  # LETTER JHA
\u091E>\uE01E;  # LETTER NYA
\u091F>\uE01F;  # LETTER TTA
\u0920>\uE020;  # LETTER TTHA
\u0921>\uE021;  # LETTER DDA
\u0922>\uE022;  # LETTER DDHA
\u0923>\uE023;  # LETTER NNA
\u0924>\uE024;  # LETTER TA
\u0925>\uE025;  # LETTER THA
\u0926>\uE026;  # LETTER DA
\u0927>\uE027;  # LETTER DHA
\u0928>\uE028;  # LETTER NA
\u0929>\uE029;
\u092A>\uE02A;  # LETTER PA
\u092B>\uE02B;  # LETTER PHA
\u092C>\uE02C;  # LETTER BA
Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2.6.1.jar/com/ibm/icu/impl/data/Transliterator_Devanagari_InterIndic.txt
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#-----------------------------------------------------------------------------------
# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_Hiragana_Latin.txt,v $
# $Date: 2001/11/30 22:21:15 $
# $Revision: 1.6 $
#-----------------------------------------------------------------------------------

:: \u3041-\u3094\u3099\u30D0-\u30D6\u30D9\u30DC\u30F4\u30F7-\u30FA\u30FE ;
:: NFC ;
:: Hiragana-Katakana;
:: Katakana-Latin;
:: NFC ;
:: (Lower) ;
:: ([\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u010F\u0112-\u0125\u0154-\u017E\u017F-\u01F0\u01F4-\u01F8-\u021B\u021E-\u021F\u0233\u04E2-\u04EF\u1E00-\u1E99\u1EA0-\u1EF9\u1FB1\u1FD9\u1FE1\u1FE9\u212A-\u212B]) ;

Found in path(s):
* /opt/cola/permits/1001069448_1607103999.49/0/icu4j-2.6.1-
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# $Source: /usr/cvs/icu4j/icu4j/src/com/ibm/icu/impl/data/Transliterator_InterIndic_Gurmukhi.txt,v $
# $Date: 2002/09/19 18:11:23 $
# $Revision: 1.10 $
#----------------------------------------------------------------------------------

# InterIndic-Gurmukhi
# :: NFD (NFC) ;
$\text{vowel} = [\text{u0A05-}\text{u0A14} \text{u0A3e-}\text{u0A4D}]$;
$\text{consonant} = [\text{u0A15-}\text{u0A39}]$;

\text{ue001} > \# FALLBACK BLOW AWAY SIGN CHANDRABINDU
\#rules for BINDI

# Anusvara is equivalent to BINDI when preceeded by a vowel
$\text{vowel}\{\text{ue002}\text{u0a02}; \# SIGN ANUSVARA (\text{u0a02} = SIGN BINDI) \# else is equivalent to TIPPI
$\text{consonant}\{\text{ue002}\text{u0a70}; \# SIGN TIPPI
\text{ue002}\text{u0a02};

\text{ue003} > \# FALLBACK BLOW AWAY SIGN VISARGA
\text{ue005}\text{u0a05}; \# LETTER A
\text{ue006}\text{u0a06}; \# LETTER AA
\text{ue007}\text{u0a07}; \# LETTER I
\text{ue008}\text{u0a08}; \# LETTER II
\text{ue009}\text{u0a09}; \# LETTER U
\text{ue00a}\text{u0a0a}; \# LETTER UU
\text{ue00b}\text{u0a30}\text{u0a3f}; \# REMAP (indicExceptions.txt): \text{u0a0b}\text{u0a30}\text{u0a3f} = LETTER VOCALIC R>LETTER RA.VOWEL SIGN I
\text{ue00c}\text{u0a33}; \# FALLBACK
\text{ue00d}\text{u0a0f}; \# FALLBACK
\text{ue00e}\text{u0a0f}; \# FALLBACK
\text{ue00f}\text{u0a0f}; \# LETTER EE
\text{ue010}\text{u0a10}; \# LETTER AI
\text{ue011}\text{u0a13}; \# FALLBACK
\text{ue012}\text{u0a13}; \# FALLBACK
\text{ue013}\text{u0a13}; \# LETTER OO
\text{ue014}\text{u0a14}; \# LETTER AU
\text{ue015}\text{u0a15}; \# LETTER KA
\text{ue016}\text{u0a16}; \# LETTER KHA
\text{ue017}\text{u0a17}; \# LETTER GA
\text{ue018}\text{u0a18}; \# LETTER GHA
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The Apache Portable Runtime includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the following licenses.

From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

/*
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 *
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 *
From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

  Based on libdl (dlfcn.c/dlfcn.h) which is
  Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
Copyright (C) 2000 by Martin Pool <mbp@humbug.org.au>

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From strings/apr_snprintf.c:

* cvt - IEEE floating point formatting routines.
* Derived from UNIX V7, Copyright(C) Caldera International Inc.
*

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1.2486 gstreamer 1.10.4-2.el7
1.2486.1 Available under license:

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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with the library, after making changes to the library and recompiling
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

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library, provided that the separate distribution of the work based on
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permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
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facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the FSF lawyers, so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by Fluendo in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.

Can someone distribute the combination of

GStreamer, the LGPL library

MyPlayer, a GPL playback application

The binary-only Sorenson decoder

Together in one distribution/operating system? If not, what needs to be changed to make this possible?

This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.
Note: MyPlayer is a completely fictitious application at the time of writing.

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above. Can Apple distribute this binary-only plugin?

Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in?

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.
Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway? If he/she visits the US, can he/she be arrested?

Yes, he can.
No, there are no criminal penalties for patent infringement in the US.

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement. The US government is empowered to refuse importation of patent infringing devices, including software.

There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project?

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.
The GPL and LGPL say (sections 7 and 11):

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/**
* Determines if the contents of a PatternMatcherInput, starting from the
* current offset of the input contains a pattern.
* If a pattern match is found, a MatchResult
* instance representing the first such match is made accessible via
* { @link #getMatch() }. The current offset of the
* PatternMatcherInput is set to the offset corresponding to the end
* of the match, so that a subsequent call to this method will continue
* searching where the last call left off. You should remember that the
* region between the begin and end offsets of the PatternMatcherInput are
* considered the input to be searched, and that the current offset
* of the PatternMatcherInput reflects where a search will start from.
* Matches extending beyond the end offset of the PatternMatcherInput
* will not be matched. In other words, a match must occur entirely
* between the begin and end offsets of the input. See
* { @link org.apache.oro.text.regex.PatternMatcherInput PatternMatcherInput
* PatternMatcherInput } for more details.
* <p>
* As a side effect, if a match is found, the PatternMatcherInput match
* offset information is updated. See the PatternMatcherInput
* { @link org.apache.oro.text.regex.PatternMatcherInput#setMatchOffsets
* setMatchOffsets(int, int) } method for more details.
* <p>
* The pattern must be an AwkPattern instance, otherwise a
* ClassCastException will be thrown. You are not required to, and
* indeed should NOT try to (for performance reasons), catch a
* ClassCastException because it will never be thrown as long as you use
* an AwkPattern as the pattern parameter.
* <p>
* This method is usually used in a loop as follows:
* <blockquote><pre>
* PatternMatcher matcher;
* PatternCompiler compiler;
* Pattern pattern;
* PatternMatcherInput input;
* MatchResult result;
* 
* compiler = new AwkCompiler();
* matcher = new AwkMatcher();
* 
* try {
* pattern = compiler.compile(somePatternString);
* } catch(MalformedPatternException e) {
* System.err.println("Bad pattern.");
* System.err.println(e.getMessage());
* return;
* }
* 
* input = new PatternMatcherInput(someStringInput);
* 
* while(matcher.contains(input, pattern)) {
* 
* </pre></blockquote>
* result = matcher.getMatch();
* // Perform whatever processing on the result you want.
* }
*
* </pre> </blockquote>
* <p>
* @param input  The PatternMatcherInput to test for a match.
* @param pattern  The Pattern to be matched.
* @return True if the input contains a pattern match, false otherwise.
* @exception ClassCastException If a Pattern instance other than an
*         AwkPattern is passed as the pattern parameter.
*/

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* $Id: MalformedPatternException.java,v 1.8 2003/11/07 20:16:25 dfs Exp $
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForLong.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/metadata/descriptor/ParameterDescriptorImpl.java
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/engine/path/package-info.java
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/metadata/xml/mapping/BeanStaxBuilder.java
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/NegativeValidatorForMonetaryAmount.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForOffsetDateTime.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/metadata/aggregated/CascadingMetaDataBuilder.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/messageinterpolation/AbstractMessageInterpolator.java

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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/parameternameprovider/ReflectionParameterNameProvider.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/package-info.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMaxValidatorForDouble.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/NotEmptyValidatorForArray.java
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForCharSequence16.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/metadata/aggregated/CascadingMetaDataBuilder.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/cfg/defs/NotBlankDef.java
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* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/xml/mapping/ConstraintTypeStaxBuilder.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/package-info.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/util/annotation/AnnotationFactory.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/util/logging/Messages.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/cfg/context/ConstraintMappingContextImplBase.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfFloat.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/NotNullValidator.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForCalendar.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/cfg/defs/NegativeOrZeroDef.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/MinValidatorForCharSequence.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMinValidatorForFloat.java
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* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/MaxValidatorForNumber.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/UniqueElementsValidator.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/cfg/defs/LuhnCheckDef.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/package-info.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/engine/resolver/AbstractTraversableHolder.java
* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/internal/metadata/core/MetaConstraints.java
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jar/org/hibernate/validator/constraints/Length.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForYear.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
jar/org/hibernate/validator/cfg/context/Cascadable.java
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/notempty/NotEmptyValidatorForArraysOfByte.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
jar/org/hibernate/validator/internal/util/classhierarchy/package-info.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
jar/org/hibernate/validator/internal/engine/groups/ValidationOrderGenerator.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
jar/org/hibernate/validator/cfg/defs/URLDef.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfBoolean.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
jar/org/hibernate/validator/cfg/defs/CreditCardNumberDef.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
jar/org/hibernate/validator/internal/target/ParameterTarget.java
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-
jar/org/hibernate/validator/internal/engine/valueextraction/MapPropertyValueExtractor.java
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* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1.jar/org/hibernate/validator/internal/metadata/aggregated/NonContainerCascadingMetaData.java
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* /opt/cola/permits/110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1.jar/org/hibernate/validator/internal/metadata/raw/package-info.java
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* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/META-INF/validation-mapping-1.1.xsd
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/maven/org.hibernate.validator/hibernate-validator/pom.xml
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/org/hibernate/validator/overview.html
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/META-INF/validation-mapping-1.0.xsd
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/META-INF/validation-configuration-2.0.xsd
* /opt/cola/permits/1110675264_1606843454.23/0/hibernate-validator-6-0-14-final-sources-1-jar/META-INF/validation-configuration-1.0.xsd
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 */
/**
 * <p>
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 * </p>
 * <p>
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
 * ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * [ @link java.validation.ParameterNameProvider ] . By default, [ @code arg0 ] , [ @code arg1 ] etc.
 * will be used as parameter names.
 * </p>
The following listing shows an example using the JavaScript engine which comes with the JDK:

```java
@ParameterScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
public void createEvent(Date start, Date end) { ... }
```

Can be specified on any method or constructor.

@parameter Gunnar Morling

*/

Hibernate Validator, declare and validate application constraints

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/**
 * Retrieves constraint related meta data for the parameters of the given executable.
 * @param executable The executable of interest.
 * @return A list with parameter meta data for the given executable.
 */

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* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/profiler/TimeInstrument.java
* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/profiler/SpacePadder.java
* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/ext/MDCStrLookup.java
* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/profiler/Util.java
* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/ext/XLoggerFactory.java
* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/instrumentation/LogTransformer.java
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* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/instrumentation/ToStringHelper.java
* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/profiler/ProfilerRegistry.java
* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/ext/LoggerWrapper.java
* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/profiler/StopWatch.java
* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/extensions/AgentPremain.java
* /opt/cola/permits/1147876715_1632435296.62/0/slf4j-ext-1-7-12-sources-2-jar/org/slf4j/extensions/EventData.java
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1.2490 at-spi2-atk 2.26.2-1.el7

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That's all there is to it!
*uganda.txt* For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar

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SUMMARY

*iccf* *ICCF*

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==============================================================================
Kibaale Children's Centre		*kcc* *Kibaale*  *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine.
They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA:The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS)
is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children’s Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children’s Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of “Stichting ICCF Holland” in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): “Abraham Moolenaar”. Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It’s really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.
Others: Transfer to one of these accounts if possible:
  Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
  Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

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1.2504 joda-time 2.9.7
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1.2505 spring-context 5.1.4.RELEASE
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/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources-
  jar/org/springframework/cache/interceptor/CacheOperationInvoker.java

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  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/context/annotation/FilterType.java
  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/context/scheduling/support/TaskUtils.java
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  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/context/support/MessageSourceResourceBundle.java
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  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/format/datetime/joda/DateTimeParser.java
  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/format/datetime/joda/LocalDateParser.java
  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/format/datetime/joda/LocalTimeParser.java
  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/context/annotation/ScopedProxyMode.java
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  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
  * /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources.jar/org/springframework/validation/beanvalidation/ValidatorFactoryBean.java
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*/
/**
 * Indicates that a component is only eligible for registration when all
 * [ @linkplain #value specified conditions] match.
 * 
 * A <em>condition</em> is any state that can be determined programmatically
 * before the bean definition is due to be registered (see [ @link Condition] for details).
 * 
 * The [ @code @ Conditional] annotation may be used in any of the following ways:
 * [ @ul]
 *   [ @li>as a type-level annotation on any class directly or indirectly annotated with
 *     [ @code @ Component], including [ @link Configuration @Configuration] classes</li>
 *   [ @li>as a meta-annotation, for the purpose of composing custom stereotype
 *     annotations</li>
 *   [ @li>as a method-level annotation on any [ @link Bean @Bean] method</li>
 * [ @ul]
 * 
 * If a [ @code @ Configuration] class is marked with [ @code @ Conditional],
 * all of the [ @code @ Bean] methods, [ @link Import @Import] annotations, and
 * [ @link ComponentScan @ComponentScan] annotations associated with that
 * class will be subject to the conditions.
 * 
 * <p><strong>NOTE</strong>: Inheritance of [ @code @ Conditional] annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * [ @code @ Conditional] itself is not declared as
 * [ @link java.lang.annotation.Inherited @Inherited]; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
 * [ @code @ Conditional] must not be declared as [ @code @ Inherited].
 * 
 * [ @author Phillip Webb
 * [ @author Sam Brannen
 * [ @since 4.0
 * [ @see Condition
 */

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 */

/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the {@code MBeanServer} for bean references.
 * This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 */
* <p>See the javadocs for WebSphere's
* 
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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* /opt/wsLocal/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
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* /opt/ws_local/PERMITS_SQL/1089321016_1600118480.81/0/spring-context-5-1-4-release-sources-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
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Preamble

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freedom to share and change it. By contrast, the GNU General Public
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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* /opt/cola/permits/1110676034_1606843975.35/0/netty-handler-4-1-24-final-sources-1-jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1110676034_1606843975.35/0/netty-handler-4-1-24-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
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  jar/org/jboss/as/txn/subsystem/TransactionSubsystemRootResourceDefinition.java
* /opt/colatx/permits/1110675785_1654023025.4378264/0/wildfly-transactions-14-0-1-final-sources-1-
  jar/org/jboss/as/txn/logging/TransactionLogger.java
* /opt/colatx/permits/1110675785_1654023025.4378264/0/wildfly-transactions-14-0-1-final-sources-1-
  jar/org/jboss/as/txn/subsystem/CMResourceAdd.java
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* /opt/cola/permits/1110675785_1654023025.43782640/wildfly-transactions-14-0-1-final-sources-1-
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org.jboss.as.txn.subsystem.TransactionExtension

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* /opt/cola/permits/1110675785_1654023025.4378264/0/wildfly-transactions-14-0-1-final-sources-1-jar/org/jboss/as/txn/service/TransactionJndiBindingProcessor.java

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* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopTracer.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpan.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanContext.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanBuilder.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopScopeManager.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopTracerFactory.java

1.2516 args4j 2.33
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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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org.ow2.asm:asm-commons
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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JUnit

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<l:main-panel>
<h1>${%3rd Party Dependencies}</h1>
</l:main-panel>
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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<h3>3. Time Zone Database</h3>

ICU uses the public domain data and code derived from [Time Zone Database](http://www.iana.org/time-zones) for its time zone support. The ownership of the TZ database is explained in [BCP 175: Procedure for Maintaining the Time Zone Database](http://tools.ietf.org/html/rfc6557) section 7.

<pre>
7. Database Ownership

The TZ database itself is not an IETF Contribution or an IETF document. Rather it is a pre-existing and regularly updated work that is in the public domain, and is intended to remain in the public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do not apply to the TZ Database or contributions that individuals make to it. Should any claims be made and substantiated against the TZ Database, the organization that is providing the IANA Considerations defined in this RFC, under the memorandum of understanding with the IETF, currently ICANN, may act in accordance with all competent court orders. No ownership claims will be made by ICANN or the IETF Trust on the database or the code. Any person making a contribution to the database or code waives all rights to future claims in that contribution or in the TZ Database.
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## -*-makefile-*-

## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS = -Wl,-Bs symbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.S$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.S$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed \"s/\(\$*\)\.o :/\1.o $@ : /g\" > $@;\n[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed \"s/\(\$*\)\.o :/\1.o $@ : /g\" > $@;\n[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.$(SO).$(SO_TARGET_VERSION_MAJOR) $@

## End FreeBSD-specific setup

1.2531 wildfly-security 14.0.1.Final

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* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1.jar/org/jboss/as/security/deployment/SecurityAttachments.java
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* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
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* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
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* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
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* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
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  jar/org/jboss/as/security/plugins/ModuleClassLoaderLocator.java
* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
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* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
  jar/org/jboss/as/security/Attribute.java
* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
  jar/org/jboss/as/security/Namespace.java
* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
  jar/org/jboss/as/security/plugins/JNDIBasedSecurityManagement.java
* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
  jar/org/jboss/as/security/service/SecurityBootstrapService.java
* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
  jar/org/jboss/as/security/ModuleNamed.java

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  jar/org/jboss/as/security/RealmDirectLoginModule.java
* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
  jar/org/jboss/as/security/RealmUsersRolesLoginModule.java
* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
  jar/org/jboss/as/security/service/SecurityVaultService.java
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* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-jar/org/jboss/as/security/LegacySupport.java
* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-jar/org/jboss/as/security/LoginModuleResourceDefinition.java
* /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-jar/org/jboss/as/security/JASPIMappingModuleDefinition.java

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  jar/org/jboss/as/security/MappingModuleDefinition.java
  /opt/cola/permits/1110675800_1654023054.1299036/0/wildfly-security-14-0-1-final-sources-1-
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 */
/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
 * maintained by this deque. (In other words, this method must allocate
 * a new array). The caller is thus free to modify the returned array.
 *
 * <p>This method acts as bridge between array-based and collection-based
 * APIs.
 *
 * @return an array containing all of the elements in this deque
1.2532 wildfly-domain-http-error-context
6.0.2.Final
1.2532.1 Available under license :

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mary{display:block}audio,canvas,progress,video{display:inline-block;vertical-align:baseline}audio:not([controls])|[display:none;height:0]|hidden,template{display:none}a{background-color:transparent}a:active,a:hover{outline:0}abbr[title]{border-bottom:1px dotted}b,strong{font-weight:700}dfn{font-style:italic}h1{font-size:2em;margin:.67em 0}mark{background:#ff0;color:#000}small{font-size:80%}sub,sup{font-size:75%;line-height:0;position:relative;vertical-align:baseline}sup{top:-.5em}sub{bottom:-.25em}img{border:0}svg:not(:root){overflow:hidden}figure{margin:1em 40px}hr{-moz-box-sizing:content-box;box-sizing:content-box;height:0}pre{overflow:auto}code,kbd,pre,samp{font-family:monospace,monospace;font-size:1em}button,input,optgroup,select,textarea{color:inherit;font:inherit;margin:0}button{overflow:visible}button,select{text-transform:none}button,html input[type=button],input[type=reset],input[type=submit],[-webkit-appearance:button;cursor:pointer]button[disabled],html input[disabled] [cursor:default]button::moz-focus-inner,input::moz-focus-inner{border:0;padding:0}input[line-height:normal]input[type=checkbox],input[type=radio]{box-sizing:border-box;padding:0}input[type=number]:-webkit-appearance:-webkit-inner-spin-button,input[type=number]:-webkit-appearance:textfield:-moz-box-sizing:content-box;-webkit-box-sizing:content-box}input[type=search]:-webkit-appearance:none]fieldset[border:1px solid silver;margin:0 2px;padding:.35em .625em .75em]legend[border:0;padding:0]textarea{overflow:auto}optgroup{font-weight:700}table{border-collapse:collapse;border-spacing:0}td,th{padding:0}
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* /opt/cola/permits/1110675916_1654023006.9187613/0/wildfly-domain-http-error-context-6-0-2-final-sources-1.jar/noConsoleForSlaveDcError.html
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* /opt/cola/permits/1110677107_1654022971.0827305/0/wildfly-appclient-14-0-1-final-sources-1-
  jar/org/jboss/as/appclient/service/ApplicationClientStartService.java
* /opt/cola/permits/1110677107_1654022971.0827305/0/wildfly-appclient-14-0-1-final-sources-1-
  jar/org/jboss/as/appclient/subsystem/AppClientExtension.java
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  jar/org/jboss/as/appclient/deployment/AppClientAttachments.java
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*/opt/cola/permits/1110677107_1654022971.0827305/0/wildfly-appclient-14-0-1-final-sources-1.jar/org/jboss/as/appclient/subsystem/AppClientSubsystemResourceDefinition.java

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* /opt/cola/permits/1110677107_1654022971.0827305/0/wildfly-appclient-14-0-1-final-sources-1-jar/jboss/as/appclient/deployment/AppClientJBossAllParser.java
* /opt/cola/permits/1110677107_1654022971.0827305/0/wildfly-appclient-14-0-1-final-sources-1-jar/jboss/as/appclient/service/RealmCallbackWrapper.java
* /opt/cola/permits/1110677107_1654022971.0827305/0/wildfly-appclient-14-0-1-final-sources-1-jar/jboss/as/appclient/service/DefaultApplicationClientCallbackHandler.java
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* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/ConnectionFactory.java
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* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/cpdsadapter/PoolablePreparedStatementStub.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/DelegatingPreparedStatement.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/datasources/InstanceKeyDataSource.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/cpdsadapter/ConnectionImpl.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/cpdsadapter/PooledConnectionImpl.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/DriverManagerConnectionFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/jocl/ConstructorUtil.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/AbandonedObjectPool.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/AbandonedConfig.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/datasources/CPDSConnectionFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/PoolingConnection.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/DelegatingResultSet.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/BasicDataSource.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/DriverConnectionFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/jocl/JOCLContentHandler.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/PoolableConnection.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-jar/org/apache/commons/dbcp/PoolingDataSource.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
1.2535 libsemanage 2.5-14.el7.0atomix1

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jar/org/apache/commons/dbcp/datasources/PooledConnectionAndInfo.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/datasources/KeyedCPDSConnectionFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSource.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
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jar/org/apache/commons/dbcp/DbcpException.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/PoolableConnectionFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/datasources/UserPassKey.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
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* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/datasources/InstanceKeyObjectFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/DataSourceConnectionFactory.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/DelegatingStatement.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/PoolingDriver.java
* /opt/cola/permits/1001643735_1646171651.81/0/commons-dbcp-1-2-1-sources-
jar/org/apache/commons/dbcp/SQLNestedException.java
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- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javae_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

1.2539 cloudfoundry-gorouter 0.0

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1.2540 asm 5.1

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/**
 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [ {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}]
 * version.
 *
 * @param mv
 * the method visitor to which this adapter delegates calls.
 *
 * @param access
 * the method's access flags (see [ {@link Opcodes}]).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see [ {@link Type Type}]).
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
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 * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
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 * [{@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}]
 * version.
 * @param owner
 * the owner's class name.
 * @param access
 * the method's access flags (see [{@link Opcodes}]).
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see [{@link Type}]).
 * @param mv
 * the method visitor to which this adapter delegates calls. May
 * be <tt>null</tt>.
 */

* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

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/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * { @link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *     a reference to the annotated type. See { @link TypeReference}.
 *
 * @param typePath
 *     the path to the annotated type argument, wildcard bound, array

* element type, or static inner type within 'typeRef'. May be <tt>null</tt> if the annotation targets 'typeRef' as a whole.

* @param start
* the first instructions corresponding to the continuous ranges
* that make the scope of this local variable (inclusive).

* @param end
* the last instructions corresponding to the continuous ranges
* that make the scope of this local variable (exclusive). This
* array must have the same size as the 'start' array.

* @param index
* the local variable's index in each range. This array must have
* the same size as the 'start' array.

* @param desc
* the class descriptor of the annotation class.
*

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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor&lt;/i&gt;. Instead, they must use the
 * [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
 * version.
 *
 * @param mv
 * the &lt;code&gt;MethodVisitor&lt;/code&gt; to send the resulting inlined
 * method code to (use &lt;code&gt;null&lt;/code&gt; for none).
 *
 * @param access
 * the method's access flags (see [ @link Opcodes]). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see [ @link Type]).
 *
 * @param signature
 * the method's signature. May be &lt;tt&gt;null&lt;/tt&gt;.
 *
 * @param exceptions
 * the internal names of the method's exception classes (see
 * [ @link Type#getName() getInternalName()]). May be
 * &lt;tt&gt;null&lt;/tt&gt;.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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* /
/**
* Constructs a new [@link Textifier]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [@link #Textifier(int)]
* version.
* 
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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/**
* Constructs a new {@link ClassNode}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the {@link #ClassNode(int)}
* version.
* *
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

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1.2546 jackson-datatype-jdk8 2.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1595301005506
Build-Jdk: 1.8.0_162
Built-By: tatu
Bundle-Description: Add-on module for Jackson (http://jackson.codehaus.org) to support JDK 8 data types.
Bundle-DocURL: https://github.com/FasterXML/jackson-modules-java8/jackson-datatype-jdk8
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jackson datatype: jdk8
Bundle-SymbolicName: com.fasterxml.jackson.datatype.jackson-datatype-jdk8
Bundle-Vendor: FasterXML
Bundle-Version: 2.10.5
Created-By: Apache Maven Bundle Plugin
Implementation-Build-Date: 2020-07-21 03:09:44+0000
Implementation-Title: Jackson datatype: jdk8
Implementation-Vendor: FasterXML
Implementation-Vendor-Id: com.fasterxml.jackson.datatype
Implementation-Version: 2.10.5
Import-Package: com.fasterxml.jackson.core;version="[2.10,3)",com.fasterxml.jackson.core.io;version="[2.10,3)",com.fasterxml.jackson.core.util;version="[2.10,3)",com.fasterxml.jackson.databind;version="[2.10,3)",com.fasterxml.jackson.databind.deser;version="[2.10,3)",com.fasterxml.jackson.databind.deser.std;version="[2.10,3)",com.fasterxml.jackson.databind.jsonFormatVisitors;version="[2.10,3)",com.fasterxml.jackson.databind.jsontype;version="[2.10,3)",com.fasterxml.jackson.databind.databind.datatype;version="[2.10,3)",com.fasterxml.jackson.databind.databind.datatype.immutable;version="[2.10,3)"
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Specification-Version: 2.10.5
Tool: Bnd-4.2.0.201903051501
X-Compile-Source-JDK: 1.8
X-Compile-Target-JDK: 1.8

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* /opt/ws_local/PERMITS_SQL/1068290321_1594347044.98/0/spring-expression-5.2.2-release-sources-1-
jar/org/springframework/expression/ParserContext.java
* /opt/ws_local/PERMITS_SQL/1068290321_1594347044.98/0/spring-expression-5.2.2-release-sources-1-
jar/org/springframework/expression/AccessException.java
* /opt/ws_local/PERMITS_SQL/1068290321_1594347044.98/0/spring-expression-5.2.2-release-sources-1-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/ws_local/PERMITS_SQL/1068290321_1594347044.98/0/spring-expression-5.2.2-release-sources-1-
jar/org/springframework/expression/spel/CompiledExpression.java
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jar/org/springframework/expression/spel/ast/Elvis.java
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jar/org/springframework/expression/spel/ast/CompoundExpression.java
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jar/org/springframework/expression/spel/ast/OpPlus.java
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jar/org/springframework/expression/spel/ast/OpNE.java
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->atm.recycle_buffer
 * combined, allow nicstar_free_rx_skb to be called to
 * recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation
 * details.
 *
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M. Welsh, 6 July 1996

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and for merging the nxt2002 and nxt2004 modules into a single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)
EXHIBIT A

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* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1-
  jar/org/jboss/as/logging/LoggingSubsystemParser_1_1.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1-
  jar/org/jboss/as/logging/deployments/LoggingDeploymentResourceProcessor.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1-
  jar/org/jboss/as/logging/LoggingSubsystemParser_3_0.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1-
  jar/org/jboss/as/logging/deployments/resources/LoggingDeploymentResources.java
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* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/LoggingSubsystemParser_1_4.java

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* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/deployments/LoggingDependencyDeploymentProcessor.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/logmanager/WildFlyLogContextSelector.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/deployments/LoggingProfileDeploymentProcessor.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/logging/Log4jAppenderHandler.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/validators/Validators.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/deployments/AbstractLoggingDeploymentProcessor.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/logmanager/WildFlyLogContextSelectorImpl.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/deployments/LoggingProfileDeploymentProcessor.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/logging/LoggingSubsystemWriter.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/logmanager/WildFlyLogContextSelectorImpl.java

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* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/resolvers/LevelResolver.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/logging/LoggingLogger.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/resolvers/LogLevelValidator.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/resolvers/OverflowActionResolver.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/resolvers/HandlerResolver.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/correctors/FileCorrector.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/resolvers/TargetResolver.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/resolvers/SizeResolver.java
* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1.jar/org/jboss/as/logging/resolvers/SizeValidator.java

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* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1-jar/org/jboss/as/logging/LogFileResourceDefinition.java
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jar/org/jboss/as/logging/loggers/LoggerOperations.java
  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
  jar/org/jboss/as/logging/loggers/RootLoggerResourceDefinition.java
  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
  jar/org/jboss/as/logging/handlers/HandlersAttributeMarshaller.java
  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
  jar/org/jboss/as/logging/handlers/HandlerOperations.java
  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
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  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
  jar/org/jboss/as/logging/handlers/FileSystemHandlerResourceDefinition.java
  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
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  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
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  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
  jar/org/jboss/as/logging/handlers/LogHandlerListAttributeDefinition.java
  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
  jar/org/jboss/as/logging/handlers/SizeRotatingHandlerResourceDefinition.java
  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
  jar/org/jboss/as/logging/handlers/SocketHandlerResourceDefinition.java
  * /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1
  jar/org/jboss/as/logging/handlers/PeriodicHandlerResourceDefinition.java

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org.jboss.as.logging.LoggingExtension

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* /opt/cola/permits/1110675195_1654023037.5736773/0/wildfly-logging-6-0-2-final-sources-1-
jar/org/jboss/as/logging/Namespace.java

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  jar/org/jboss/remotingjmx/protocol/v1/Constants.java
* /opt/cola/permits/1039856972_1654022962.4400349/0/remoting-jmx-2-0-1-final-sources-
  jar/org/jboss/remotingjmx/protocol/v2/ClientCommon.java
* /opt/cola/permits/1039856972_1654022962.4400349/0/remoting-jmx-2-0-1-final-sources-
  jar/org/jboss/remotingjmx/MBeanServerManager.java
* /opt/cola/permits/1039856972_1654022962.4400349/0/remoting-jmx-2-0-1-final-sources-
  jar/org/jboss/remotingjmx/protocol/v1/ServerProxy.java
* /opt/cola/permits/1039856972_1654022962.4400349/0/remoting-jmx-2-0-1-final-sources-
  jar/org/jboss/remotingjmx/protocol/v2/Constants.java
1.2575 jakarta-annotation-api 1.3.5
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* /opt/cola/permits/1110676792_1654022856.4012809/0/ironjacamar-deployers-common-1-4-11-final-sources-1-jar/org/jboss/jca/deployers/common/CommonDeployment.java

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jar/com/contentstack/sdk/utility/CSAppConstants.java
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jar/com/contentstack/sdk/utility/ContentstackUtil.java
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jar/com/contentstack/sdk/utility/CSAppUtils.java
* /opt/ws_local/PERMITS_SQL/1070866703_1594760478.25/0/java-1-4-1-sources-
jar/com/contentstack/sdk/utils/ContentstackUtil.java

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  jar/com/contentstack/sdk/Error.java
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  jar/com/contentstack/sdk/Query.java
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  jar/com/contentstack/sdk/SyncStack.java
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  jar/org/projectodd/vdx/wildfly/ErrorReporter.java
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -fPIC
## Additional flags when building libraries and with threads

THREDSCCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options

LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "\"s/\([^/]*\).o:\([?]?"/\1.o $@ : /g\" > $@; \
[ -s $@ ] \|| rm -f $@'"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "\"s/\([^/]*\).o:\([?]?"/\1.o $@ : /g\" > $@; \
[ -s $@ ] \|| rm -f $@'"

## Versioned libraries rules

%.SO.$(SO_TARGET_VERSION_MAJOR): %.SO.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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 */
/**
 * The AuthenticationStatus is used as a return value by primarily
 * the { @link HttpAuthenticationMechanism} to indicate the result (status)
* of the authentication process.
* 
* <p>
* an AuthenticationStatus must be transformed by the Java EE server into the corresponding JASPIC (JSR 196) AuthStatus
* according to the following rules:
* 
* <ul>
*   <li> AuthenticationStatus.NOT_DONE to AuthStatus.SUCCESS </li>
*   <li> AuthenticationStatus.SEND_CONTINUE to AuthStatus.SEND_CONTINUE </li>
*   <li> AuthenticationStatus.SUCCESS to AuthStatus.SUCCESS </li>
*   <li> AuthenticationStatus.SEND_FAILURE to AuthStatus.SEND_FAILURE </li>
* </ul>
* 
* <p>
* After the transformation as outlined above the transformed result has to be processed by the Java EE server as
* specified by the Servlet Container Profile of the JASPIC 1.1 spec (chapter 3).
* 
* <p>
* <b>Implementation note:</b> while the JASPIC Servlet Container Profile is the authoritative
* source on how to process the <code>AuthStatus.SUCCESS</code> result and this specification puts no constraints
* of any kind on that, the expectation is that Java EE servers in practice will mainly look at the
* result being <code>AuthStatus.SUCCESS</code> or not <code>AuthStatus.SUCCESS</code>. Simply said, if
* the result is
* <code>AuthStatus.SUCCESS</code> the authenticated identity (if any) must be set (established) for the current
* HTTP request,
* otherwise not.
* 
* <p>
* which is also of type AuthenticationStatus, strongly relates to the outcome of the
* <code>HttpAuthenticationMechanism#validateRequest</code>
* method as described above, but must be transformed by the Java EE server from the corresponding outcome of the
* \{@link HttpServletRequest#authenticate(javax.servlet.http.HttpServletResponse)\} call as follows:
* 
* <ul>
*   <li> <code>true</code> to <code>AuthenticationStatus.SUCCESS</code> </li>
*   <li> <code>false</code> to <code>[last status]</code> (see below) </li>
*   <li> <code>ServletException</code> or <code>IOException</code> to
*     <code>AuthenticationStatus.SEND_FAILURE</code> </li>
* </ul>
*
When an `<code>HttpAuthenticationMechanism</code>` was used, `<code>[last status]</code>` must be the value returned by `<code>HttpAuthenticationMechanism#validateRequest</code>`.

When a JASPIC ServerAuthModule (SAM) was used and an `<code>HttpAuthenticationMechanism</code>` was not used, Java EE servers are encouraged, but not required, to set `<code>[last status]</code>` to the value returned by `<code>ServerAuthModule#validateRequest</code>` transformed as follows:

- `AuthStatus.SEND_CONTINUE` to `AuthenticationStatus.SEND_CONTINUE`
- `AuthStatus.SUCCESS` to `AuthenticationStatus.SUCCESS`
- `AuthStatus.SEND_FAILURE` to `AuthenticationStatus.SEND_FAILURE`
- (all other outcomes) to `AuthenticationStatus.NOT_DONE`

When a Java EE Server proprietary identity store equivalent was used and an `<code>HttpAuthenticationMechanism</code>` was not used, Java EE servers are encouraged, but not required, to a value that logically corresponds to the description of each enum constant of `AuthenticationStatus`. This outcome should never be depended on by application code as being portable.

Application code calling `<code>SecurityContext#authenticate</code>` is expected to act on all possible values of `AuthenticationStatus`.

```
Found in path(s):
"/opt/cola/permits/1003070015_1654022865.9117796/0/javax-security-enterprise-api-1-0-sources-
jar/javax/security/enterprise/AuthenticationStatus.java"
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* /opt/cola/permits/1003070015_1654022865.9117796/0/javax-security-enterprise-api-1-0-sources-jar/javax/security/enterprise/credential/UsernamePasswordCredential.java
* /opt/cola/permits/1003070015_1654022865.9117796/0/javax-security-enterprise-api-1-0-sources-jar/javax/security/enterprise/AuthenticationException.java
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* /opt/cola/permits/1003070015_1654022865.9117796/0/javax-security-enterprise-api-1-0-sources-jar/javax/security/enterprise/credential/AbstractClearableCredential.java
* /opt/cola/permits/1003070015_1654022865.9117796/0/javax-security-enterprise-api-1-0-sources-jar/javax/security/enterprise/authentication/mechanism/http/RememberMe.java
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* /opt/cola/permits/1003070015_1654022865.9117796/0/javax-security-enterprise-api-1-0-sources-jar/javax/security/enterprise/identitystore/LdapIdentityStoreDefinition.java
* /opt/cola/permits/1003070015_1654022865.9117796/0/javax-security-enterprise-api-1.0-sources.jar/javax/security/enterprise/credential/CallerOnlyCredential.java
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  jar/org/jboss/as/repository/RemoteFileRequestAndHandler.java
* /opt/cola/permits/1110675751_1654023003.843164/0/wildfly-deployment-repository-6-0-2-final-sources-1-
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* /opt/cola/permits/1110677129_1654022896.2146785/0/jboss-metadata-ejb-11-0-0-final-sources-1-jar/dtd/ejb-
  jar_2_0.dtd
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*/
/**
 * Confidentiality not required
 */
/**
 * Confidentiality supported
 */
/**
 * Confidentiality required
 */
/**
 * The confidentiality
 */
/**
 * Get the confidentiality.
 * @return the confidentiality.
 */
/**
 * Set the confidentiality.
 * @param confidentiality the confidentiality.
 * @throws IllegalArgumentException for a null confidentiality
 */

Found in path(s):
* /opt/cola/permits/1110677129_1654022896.2146785/0/jboss-metadata-ejb-11-0-0-final-sources-1-
jar/org/jboss/metadata.ejb/jboss/IORTransportConfigMetaData.java
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jar/org/jboss/metadata/ejb/spec/MessageDrivenBeanMetaData.java
* /opt/cola/permits/110677129_1654022896.2146785/0/jboss-metadata-ejb-11-0-0-final-sources-1.jar/org/jboss/metadata/ejb/spec/InitMethodsMetaData.java
* /opt/cola/permits/110677129_1654022896.2146785/0/jboss-metadata-ejb-11-0-0-final-sources-1.jar/org/jboss/metadata/ejb/spec/MergeableMetaData.java
* /opt/cola/permits/110677129_1654022896.2146785/0/jboss-metadata-ejb-11-0-0-final-sources-1.jar/org/jboss/metadata/ejb/spec/CMRFieldMetaData.java
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* /opt/cola/permits/110677129_1654022896.2146785/0/jboss-metadata-ejb-11-0-0-final-sources-1.jar/org/jboss/metadata/ejb/jboss/PoolConfigMetaData.java
The `iorTransportConfigType` specifies attributes that can be used to configure the transport requirements of an IIOP enabled EJB3 bean.

* **integrity:** indicates if the server (target) supports integrity protected messages. The valid values are
  * NONE, SUPPORTED, REQUIRED.

* **confidentiality:** indicates if the server (target) supports privacy protected messages. The values are
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* detect-misordering: indicates if the server (target) supports detection of message sequence errors. The values are NONE, SUPPORTED or REQUIRED.

* detect-replay: indicates if the server (target) supports detection of message replay attempts. The values are NONE, SUPPORTED or REQUIRED.

* establish-trust-in-client: indicates if the target is capable of authenticating a client. The values are NONE, SUPPORTED or REQUIRED.

* establish-trust-in-target: indicates if the target is capable of authenticating to a client. The values are NONE or SUPPORTED.

Confidentiality element indicates if the server (target) supports privacy protected messages. The values are NONE, SUPPORTED or REQUIRED.

Guarantee element specifies that the communication between client and server should be NONE, INTEGRAL, or CONFIDENTIAL. NONE means that the application does not require any transport guarantees. A value of INTEGRAL means that the application requires that the data sent between the client and server be sent in such a way that it can't be changed in transit. CONFIDENTIAL means that the application requires that the data be transmitted in a fashion that prevents other entities from observing the contents of the transmission. In most cases, the presence of the INTEGRAL or CONFIDENTIAL flag will indicate that the use of SSL is required.

Used in: port

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* /opt/cola/permits/1110677129_1654022896.2146785/0/jboss-metadata-ejb-11-0-0-final-sources-1.jar/schema/jboss-ejb-iiop_1_0.xsd

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1.2598 artemis-jms-client 1.1.0.wildfly-017

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1.2605 icu 50.2 4.el7_7
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$($(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/(.*)\.o[ :]*/\1.o $@ : /g\" > $@;\ 
[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$($(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/(.*)\.o[ :]*/\1.o $@ : /g\" > $@;\ 
[ -s $@ ] || rm -f $@

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s *F.$(SO).$(SO_TARGET_VERSION_MAJOR) $@
## End FreeBSD-specific setup

1.2606 libpng 1.6.28

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```
---------------------------------------------------------------------------
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Glenn Randers-Pehrson
glenrp at users.sourceforge.net
January 5, 2017
/*-----------------------------------------------------------------------------------------*/

wpng - simple PNG-writing program
writepng.c

-----------------------------------------------------------------------------------------

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* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-jar/org/xnio/FileChangeEvent.java
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* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-jar/org/xnio/channels/SuspendableWriteChannel.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-jar/org/xnio/channels/SuspendableReadChannel.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-jar/org/xnio/channels/StreamSinkChannel.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-jar/org/xnio/channels/WritableMessageChannel.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-jar/org/xnio/Xnio.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-jar/org/xnio/Channels.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-jar/org/xnio/IoUtils.java
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* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-jar/org/xnio/Property.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-jar/org/xnio/streams/Streams.java
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jar/org/xnio/channels/PushBackStreamChannel.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-
jar/org/xnio/channels/AssembledConnectedMessageChannel.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-
jar/org/xnio/channels/EmptyStreamSourceChannel.java
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jar/org/xnio/ChannelPipe.java
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jar/org/xnio/DelegatingChannelListener.java
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jar/org/xnio/BrokenPipeException.java
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jar/org/xnio/channels/AssembledStreamChannel.java
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jar/org/xnio/channels/AssembledMessageChannel.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-
jar/org/xnio/channels/ConcurrentStreamChannelAccessException.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-
jar/org/xnio/channels/AssembledConnectedStreamChannel.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-
jar/org/xnio/channels/AssembledConnectedSslStreamChannel.java
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jar/org/xnio/channels/AssembledConnectedChannel.java
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  jar/org/xnio/ByteBufferSlicePool.java
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* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-
  jar/org/xnio/LocalSocketAddress.java
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  jar/org/xnio/CompressionType.java
* /opt/cola/permits/1069029584_1654023065.5170546/0/xnio-api-3-4-0-final-sources-
  jar/org/xnio/channels/ProtectedWrappedChannel.java
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.
Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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This option is useful when you wish to copy part of the code of
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If distribution of object code is made by offering access to copy
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distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in:
https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html
and
https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html,
it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are:
update paths in sysdeps/mach/hurd/Implies and
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files,
with the removal of syscalls that were in
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory
by .c files there.

Tested x86_64. The installed shared libraries are identical before
and after the patch except for libc.so where the move of wait3.c
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but
the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from
  sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/syscalls.list: Remove file.
* sysdeps/unix/sysv/linux/wait3.c: Update directory of included
  file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
  * sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
  * sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
  * sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fdf1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd

diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000 00000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait4wait4

diff --git a/sysdeps/unix/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c

diff --git a/sysdeps/unix/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c

diff --git a/sysdeps/unix/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c

diff --git a/sysdeps/unix/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c

diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
  # File nameCallerSyscall name# argsStrong nameWeak names

+chflags-chflags2chflags
+fchflags-fchflags2fchflags
flock-flock2__flockflock
getdents-getdirentries4__getdirentriesgetdirentries
getdtsz-getdtablesize0__getdtablesizgetdtablesize
getpagesize-getpagesize0__getpagesizgetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblockssigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksigaltstack
sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmaskssigsetmask
sigstack-sigstack2sigstack
sigvec-sigvec3__sigvecssigvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c similarity index 100%
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diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c similarity index 100%
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rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c similarity index 100%
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diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c

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The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source form of a work.

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1.2623 python-decorator 3.4.0-3.el7

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* /opt/cola/permits/1136595845_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-ncLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/documentation.py

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Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

:Author: Michele Simionato
Installation
-------------

If you are lazy, just perform

```sh
$ easy_install decorator
```

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute_ project.

If you prefer to install the full distribution from source, including the documentation, download the tarball_, unpack it and run

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$ python setup.py install
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.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing
--------

For Python 2.5, 2.6, 2.7 run

```sh
$ python documentation.py
```

for Python 3.X run

```sh
$ python documentation3.py
```

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.
Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
--------------

There are various versions of the documentation:

- `HTML version (Python 2)`_
- `PDF version (Python 2)`_
- `HTML version (Python 3)`_
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Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
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-------------

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```

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```sh
$ python setup.py install
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in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator

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Testing
--------

For Python 2.5, 2.6, 2.7 run

```sh
$ python documentation.py
```

for Python 3.X run

```sh
$ python documentation3.py
```

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

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plan is to keep supporting all Python versions \( \geq 2.4 \) in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

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Documentation
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Repository
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try:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
    """Get the __version__ reading the file: works both in Python 2.X and 3.X, whereas direct importing would break in Python 3.X with a syntax error""
    for line in open(fname):
        if line.startswith('__version__ '):
            return eval(line[13:])
    raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(
    os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
          version=VERSION,
          description='Better living through Python with decorators',
          long_description=open('README.txt').read(),
          author='Michele Simionato',
          author_email='michele.simionato@gmail.com',
          url='http://pypi.python.org/pypi/decorator',
          license='"BSD License",
          package_dir = {':': 'src'},
          py_modules = ['decorator'],
          keywords="decorators generic utility",
          platforms=['"All"'],
          classifiers=["Development Status :: 5 - Production/Stable",
                       'Intended Audience :: Developers',
                       'License :: OSI Approved :: BSD License',
                       'Natural Language :: English',
                       'Operating System :: OS Independent',
                       'Programming Language :: Python',
                       'Programming Language :: Python :: 3',
                       'Topic :: Software Development :: Libraries',
                       'Topic :: Utilities'],
use_2to3=True,
zip_safe=False)

Found in path(s):
* /opt/cola/permits/1136595845_1613806225.62/0/python-decorator-3.4.0-3.el7-1.src.rpm-cosi-expand-archive-
ncLFDtRz/decorator-3.4.0.tar.gz-cosi-expand-archive-4i3VovJo/decorator-3.4.0/setup.py

1.2624 jul-to-slf4j 1.7.29

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1.2636 wildfly-elytron-keystore 1.11.2.Final

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  jar/org/glassfish/json/JsonObjectBuilderImpl.java
jar/org/glassfish/json/JsonPrettyGeneratorImpl.java
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* /opt/cola/permits/1001433029_1654022849.1558654/0/javax-json-1-1-2-sources-
jar/org/glassfish/json/UnicodeDetectingInputStream.java
* /opt/cola/permits/1001433029_1654022849.1558654/0/javax-json-1-1-2-sources-
jar/org/glassfish/json/JsonArrayBuilderImpl.java
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  jar/org/glassfish/json/JsonPatchBuilderImpl.java
* /opt/cola/permits/1001433029_1654022849.1558654/0/javax-json-1-1-2-sources-
  jar/org/glassfish/json/NodeReference.java
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  jar/org/glassfish/json/JsonUtil.java
* /opt/cola/permits/1001433029_1654022849.1558654/0/javax-json-1-1-2-sources-
  jar/org/glassfish/json/JsonPatchImpl.java
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1.2644 wildfly-elytron-x500-cert 1.11.2.Final
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* /opt/ws_local/PERMITS_SQL/1091710704_1600571783.1/0/wildfly-elytron-x500-cert-1-11-2-final-sources.jar/org/wildfly/security/pem/PemEntry.java
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* /opt/ws_local/PERMITS_SQL/1091710704_1600571783.1/0/wildfly-elytron-x500-cert-1-11-2-final-sources.jar/org/wildfly/security/x500/cert/KeyUsageExtension.java
* /opt/ws_local/PERMITS_SQL/1091710704_1600571783.1/0/wildfly-elytron-x500-cert-1-11-2-final-sources.jar/org/wildfly/security/x500/cert/X509CertificateBuilder.java
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*/opt/cola/permits/1091710957_1654022835.3484554/0/hibernate-jbosscache-3-6-10-final-sources-jar/org/hibernate/cache/jbc/MultiplexedJBossCacheRegionFactory.java
*/opt/cola/permits/1091710957_1654022835.3484554/0/hibernate-jbosscache-3-6-10-final-sources-jar/org/hibernate/cache/jbc/JndiSharedCacheInstanceManager.java
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*/opt/cola/permits/1091710957_1654022835.3484554/0/hibernate-jbosscache-3-6-10-final-sources-jar/org/hibernate/cache/jbc/collection/OptimisticTransactionalAccessDelegate.java

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* /opt/cola/permits/1091710957_1654022835.3484554/0/hibernate-jbosscache-3-6-10-final-sources-jar/org/hibernate/cache/jbc/collection/TransactionalAccess.java
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* /opt/cola/permits/1091710957_1654022835.3484554/0/hibernate-jbosscache-3-6-10-final-sources-jar/org/hibernate/cache/jbc/BasicRegionAdapter.java
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* /opt/cola/permits/1091710957_1654022835.3484554/0/hibernate-jbosscache-3-6-10-final-sources-jar/org/hibernate/cache/jbc/entity/OptimisticReadOnlyAccess.java

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  DCPathButton-39be410/Example-Swift/Example-Swift/ViewController.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
  DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
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```

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Pod::Spec.new do |s|
  s.name         = "DCPathButton"
  s.version      = "2.1.1"
  s.summary      = "A beautiful button copy from Path®"
  s.description  = <<-DESC
    DCPathButton is a menu button, design by an famous App Path®.
    Since Path® 4.0, it return to use a tab bar instead of a side bar,
    and also change the menu button. So I try to implement it and then
    the DCPathButton born :) 
   DESC
  s.homepage     = "https://github.com/Tangdixi/DCPathButton"
  s.license      = {
    :type => 'MIT',
    :text => 'The DCPathButton use the MIT license'
  }
  s.author       = { "Tangdixi" => "Tangdixi@gmail.com" }
  s.platform     = :ios, '7.0'
  s.source       = {
    :git => "https://github.com/Tangdixi/DCPathButton.git",
    :tag => "2.1.1"
  }
  s.source_files = 'DCPathButton/Classes/*.{h,m}'
  s.resources    = ['DCPathButton/Sounds/*']
  s.frameworks   = ['QuartzCore','AudioToolbox'
  s.requires_arc = true
end
end

Found in path(s):
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/ExampleTests/ExampleTests.m
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* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.h
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/main.m
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1.2672 osinfo-db 20190805-2.el7

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include/GL/g1.h :

Mesa 3-D graphics library

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include/GL/wglxext.h :

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  jar/com/arjuna/ats/jdbc/common/jdbcPropertyManager.java
* /opt/cola/permits/1091709814_1654022901.8311477/0/jdbc-5-9-0-final-sources-
  jar/com/arjuna/ats/jdbc/TransactionalDriver.java
* /opt/cola/permits/1091709814_1654022901.8311477/0/jdbc-5-9-0-final-sources-
  jar/com/arjuna/ats/internal/jdbc/DynamicClass.java
* /opt/cola/permits/1091709814_1654022901.8311477/0/jdbc-5-9-0-final-sources-
  jar/com/arjuna/ats/internal/jdbc/IndirectRecoverableConnection.java
* /opt/cola/permits/1091709814_1654022901.8311477/0/jdbc-5-9-0-final-sources-
  jar/com/arjuna/ats/internal/jdbc/DirectRecoverableConnection.java
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  jar/com/arjuna/ats/internal/jdbc/recovery/BasicXARecovery.java
* /opt/cola/permits/1091709814_1654022901.8311477/0/jdbc-5-9-0-final-sources-
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jar/org/apache/tools/ant/types/selectors/NotSelector.java
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* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/ReplaceRegExp.java
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* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/util/regexp/Regexp.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/compilers/Kjc.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/starteam/StarTeamTask.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/javacc/JJDoc.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/types/DataType.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/types/selectors/TypeSelector.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/UpToDate.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/ssh/SSHBase.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/script/ScriptDef.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/types/selectors/SelectorContainer.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/input/MultipleChoiceInputRequest.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/types/resources/ZipResource.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/ejb/WebsphereDeploymentTool.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/PreSetDef.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/jar/Jar.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/filters/TabsToSpaces.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/unix/AbstractAccessTask.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/RecorderEntry.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/types/resources/selectors/Majority.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/depend/constantpool/MethodRefCPInfo.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/j2ee/ServerDeploy.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/util/StringTokenizer.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/Javadoc.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/unix/AbstractAccessTask.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/RecorderEntry.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/types/resources/selectors/Majority.java
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* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/util/StringTokenizer.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/Javadoc.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/unix/AbstractAccessTask.java
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* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/depend/constantpool/MethodRefCPInfo.java
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 *
 */

/**
 * This class implements a security manager meant for usage by tasks that run inside the
 * Ant VM. An examples are the Java Task and JUnitTask.
 *
 * The basic functionality is that nothing (except for a base set of permissions) is allowed, unless
* the permission is granted either explicitly or implicitly.
* If a permission is granted this can be overruled by explicitly revoking the permission.
* It is not permissible to add permissions (either granted or revoked) while the Security Manager
* is active (after calling setSecurityManager() but before calling restoreSecurityManager()).
* @since Ant 1.6
*/

Found in path(s):
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  jar/org/apache/tools/ant/types/Permissions.java
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  jar/org/apache/tools/ant/types/resolver/package.html
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-
  jar/org/apache/tools/ant/taskdefs/optional/perforce/package.html
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A class to help send SMTP email.

This class is an improvement on the sun.net.smtp.SmtpClient class found in the JDK. This version has extra functionality, and can be used with JVMs that did not extend from the JDK. It's not as robust as the JavaMail Standard Extension classes, but it's easier to use and easier to install, and has an Open Source license.

It can be used like this:

```java
String mailhost = "localhost"; // or another mail host
String from = "Mail Message Servlet &lt;MailMessage@server.com&gt;";
String to = "to@you.com";
String cc1 = "cc1@you.com";
String cc2 = "cc2@you.com";
String bcc = "bcc@you.com";

MailMessage msg = new MailMessage(mailhost);
msg.setPort(25);
msg.from(from);
msg.to(to);
msg.cc(cc1);
msg.cc(cc2);
msg.bcc(bcc);
msg.setSubject("Test subject");
PrintStream out = msg.getPrintStream();

Enumeration enum = req.getParameterNames();
while (enum.hasMoreElements()) {
    String name = (String)enum.nextElement();
    String value = req.getParameter(name);
    out.println(name + " = " + value);
}

msg.sendAndClose();
```

Be sure to set the from address, then set the recipient addresses, then set the subject and other headers, then get the PrintStream, then write the message, and finally send and close.
* The class does minimal error checking internally; it counts on the mail
* host to complain if there's any malformatted input or out of order
* execution.
* <p>
* An attachment mechanism based on RFC 1521 could be implemented on top of
* this class. In the meanwhile, JavaMail is the best solution for sending
* email with attachments.
* <p>
* Still to do:
* <ul>
* <li>Figure out how to close the connection in case of error
* </ul>
* 
* @version 1.1, 2000/03/19, added angle brackets to address, helps some servers
* version 1.0, 1999/12/29
*/

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* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/perforce/P4Submit.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/perforce/P4Add.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/perforce/P4Sync.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/perforce/P4Labelsync.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/perforce/P4Integrate.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/perforce/P4Edit.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/perforce/P4Change.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/perforce/P4Have.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/perforce/P4Revert.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-jar/org/apache/tools/ant/taskdefs/optional/perforce/P4Reopen.java
* /opt/cola/permits/1001043479_1646171569.98/0/ant-1-7-0-sources-
1.2682 jetty-webapp 9.3.9.v20160517

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jar/org/eclipse/jetty/webapp/Configuration.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
jar/org/eclipse/jetty/webapp/WebAppContext.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
jar/org/eclipse/jetty/webapp/WebInfConfiguration.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
jar/org/eclipse/jetty/webapp/DefaultsDescriptor.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
jar/org/eclipse/jetty/webapp/FragmentConfiguration.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
jar/org/eclipse/jetty/webapp/WebXmlConfiguration.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
jar/org/eclipse/jetty/webapp/Ordering.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
jar/org/eclipse/jetty/webapp/WebAppClassLoader.java
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jar/org/eclipse/jetty/webapp/FragmentDescriptor.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
jar/org/eclipse/jetty/webapp/WebXmlConfiguration.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
jar/org/eclipse/jetty/webapp/DescriptorProcessor.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
jar/org/eclipse/jetty/webapp/ClasspathPattern.java
* /opt/cola/permits/1001068486_1646171596.08/0/jetty-webapp-9-3-9-v20160517-sources-
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@author:     zhang
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@created:    Apr 24, 2009

Description: A class to decode PEM files

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* @author:     zhang
* @version:    $Revision$
* @created:    Apr 24, 2009
*
* Description: A KeySpec for PKCS#1 encoded RSA private key
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* /opt/cola/permits/1110675320_1606843911.45/0/jgroups-kubernetes-1-0-6-final-sources-1- jar/org/jgroups/protocols/kubernetes/pem/PKCS1EncodedKeySpec.java

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)  
  * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)  
  *  
  * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.  
  * http://www.hypermall.com/  
  * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY  
  * interrupts us (except possibly for removal/insertion of the cable?)  
  * 10/4/97 - began heavy inline documentation of the code. Corrected typos  
  * and spelling mistakes.  
  * 10/5/97 - added code to handle PHY interrupts, disable PHY on  
  * loss of link, and correctly re-enable PHY when link is  
  * re-established. (put back CFG_PHYIE)  
  *  
  * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  
  *  
  * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
  *  
  * Linux driver for the IDT77201 NICStAR PCI ATM controller.  
  * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
  * see init_nicstar() for PHY initialization to change this. This driver  
  * expects the Linux ATM stack to support scatter-gather lists  
  * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
  *  
  * Implementing minimal-copy of received data:  
  * IDT always receives data into a small buffer, then large buffers  
  * as needed. This means that data must always be copied to create  
  * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
  * Fix is simple: make large buffers large enough to hold entire  
  * SDU, and leave <small_buffer_data> bytes empty at the start. Then  
  * copy small buffer contents to head of large buffer.  
  * Trick is to avoid fragmenting Linux, due to need for a lot of large  
  * buffers. This is done by 2 things:  
  * 1) skb->destructor / skb->atm.recycle_buffer  
  * combined, allow nicstar_free_rx_skb to be called to  
  * recycle large data buffers  
  * 2) skb_clone of received buffers  
  * See nicstar_free_rx_skb and linearize_buffer for implementation  
  * details.  
  *  
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M. Welsh, 6 July 1996

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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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* /opt/cola/permits/1110675690_1654022888.7858028/0/jboss-remoting-3-2-14-ga-sources-1-jar/org/jboss/remoting3/remote/RemoteConnectionProviderMXBean.java
* /opt/cola/permits/1110675690_1654022888.7858028/0/jboss-remoting-3-2-14-ga-sources-1-jar/org/jboss/remoting3/spi/RegisteredService.java

1.2696 xcb-util 0.4.0-2.el7

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1.2699 jackson 2.10.1
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

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* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/util/InetAddressConverter.java
* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/Reflection.java
* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionSpecTokenizer.java
* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/OptionMissingRequiredArgumentException.java
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* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/MethodInvokingValueConverter.java
* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/AlternativeLongOptionSpec.java
* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/internal/OptionNameMap.java
* /opt/cola/permits/1000760427_1646171560.45/0/jopt-simple-5-0-3-sources-jar/joptsimple/util/DateConverter.java
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1.2710 apk-tools 2.10.1-r0

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 *
* Up- and down-propagating, forwarding checking, deductive dependency solver.

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1.2712 common 5.9.0.Final

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1.2713 cxf-rt-transports-http 2.7.3

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  jar/schema/wildfly-resource-adapters_5_0.xsd
* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-
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* /opt/cola/permits/110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1.jar/org/jboss/as/connector/services/workmanager/transport/DoWorkCommand.java
* /opt/cola/permits/110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1.jar/org/jboss/as/connector/services/workmanager/transport/LongRunningFreeCommand.java
* /opt/cola/permits/110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1.jar/org/jboss/as/connector/services/workmanager/transport/RemoveWorkManagerCommand.java
* /opt/cola/permits/110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1.jar/org/jboss/as/connector/services/workmanager/transport/GetWorkManagersCommand.java
* /opt/cola/permits/110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1.jar/org/jboss/as/connector/services/workmanager/transport/DeltaWorkSuccessfulCommand.java
* /opt/cola/permits/110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1.jar/org/jboss/as/connector/services/workmanager/transport/LongRunningFreeCommand.java
jar/org/jboss/as/connector/services/workmanager/transport/DistributedStatisticsCommand.java

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org.jboss.as.connector.subsystems.datasources.DataSourcesTransformers
org.jboss.as.connector.subsystems.jca.JcaTransformers
org.jboss.as.connector.subsystems.resourceadapters.ResourceAdaptersTransformers

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* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-jar/org/jboss/as/connector/subsystems/datasources/Element.java
* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-jar/org/jboss/as/connector/subsystems/resourceadapters/CDConfigPropertiesService.java
* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-jar/org/jboss/as/connector/subsystems/resourceadapters/ResourceAdaptersService.java
* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-jar/org/jboss/as/connector/util/ConnectorServices.java
* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-jar/org/jboss/as/connector/metadata/deployment/ResourceAdapterDeployment.java
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jar/org/jboss/as/connector/subsystems/datasources/GetDataSourceClassInfoOperationHandler.java
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jar/org/jboss/as/connector/util/AbstractParser.java
* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-
jar/org/jboss/as/connector/annotations/repository/jandex/AnnotationImpl.java
* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-
jar/org/jboss/as/connector/subsystems/resourceadapters/CommonIronJacamarParser.java
* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-
jar/org/jboss/as/connector/annotations/repository/jandex/JandexAnnotationRepositoryImpl.java

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* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14.0.1-final-sources-1-jar/org/jboss/as/connector/deployers/datasource/DefaultDataSourceBindingProcessor.java
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* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-jar/org/jboss/as/connector/subsystems/resourceadapters/ConfigPropertyResourceDefinition.java
* /opt/cola/permits/1110676228_1654022990.6502123/0/wildfly-connector-14-0-1-final-sources-1-jar/org/jboss/as/connector/subsystems/resourceadapters/ConnectionDefinitionResourceDefinition.java

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</p>

<p>
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</p>

<p>
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Note: to better fit into full-text search model this dictionary has all word forms in lower case but keeps lemmas for proper nouns in upper case.

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jackson-jq
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When upgrading Lucene-Java Jars, remember to generate new Analysis factories for any new Tokenizers or TokenFilters. See the wiki for details...

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Woodstox is an XML-parser that allows parsing of XML documents in so-called
pull mode (aka "pull parsing").
It specifically implements StAX 1.0 API:


which defines what is closest to being the J2xE standard for XML pull parsers.

Woodstox was originally written by Tatu Saloranta (<tatu.saloranta@iki.fi>.

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Byte Buddy is a code generation and manipulation library for creating and modifying Java classes during the runtime of a Java application and without the help of a compiler.

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= Copying Fields

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You might want to interpret some document fields in more than one way. Solr has a mechanism for making copies of fields so that you can apply several distinct field types to a single piece of incoming information.

The name of the field you want to copy is the _source_, and the name of the copy is the _destination_. In `schema.xml`, it's very simple to make copies of fields:

[source,xml]
----
<copyField source="cat" dest="text" maxChars="30000" />
----

In this example, we want Solr to copy the `cat` field to a field named `text`. Fields are copied before analysis is done, meaning you can have two fields with identical original content, but which use different analysis chains and are stored in the index differently.

In the example above, if the `text` destination field has data of its own in the input documents, the contents of the `cat` field will be added as additional values just as if all of the values had originally been specified by the client. Remember to configure your fields as `multivalued="true"` if they will ultimately get multiple values (either from a multivalued source or from multiple `copyField` directives).

A common usage for this functionality is to create a single "search" field that will serve as the default query field when users or clients do not specify a field to query. For example, `title`, `author`, `keywords`, and `body` may all be fields that should be searched by default, with copy field rules for each field to copy to a `catchall` field (for example, it could be named anything). Later you can set a rule in `solrconfig.xml` to search the `catchall` field by default. One caveat to this is your index will grow when using copy fields. However, whether this becomes problematic for you and the final size will depend on the number of fields being copied, the number of destination fields being copied to, the analysis in use, and the available disk space.

The `maxChars` parameter, an `int` parameter, establishes an upper limit for the number of characters to be copied from the source value when constructing the value added to the destination field. This limit is useful for situations in which you want to copy some data from the source field, but also control the size of index files.
Both the source and the destination of `copyField` can contain either leading or trailing asterisks, which will match anything. For example, the following line will copy the contents of all incoming fields that match the wildcard pattern `*_t` to the text field:

[source,xml]
----
<copyField source="*_t" dest="text" maxChars="25000" />
----

[IMPORTANT]
=====

The `copyField` command can use a wildcard (*) character in the `dest` parameter only if the `source` parameter contains one as well. `copyField` uses the matching glob from the source field for the `dest` field name into which the source content is copied.
=====

Copying is done at the stream source level and no copy feeds into another copy. This means that copy fields cannot be chained i.e., _you cannot_ copy from `here` to `there` and then from `there` to `elsewhere`. However, the same source field can be copied to multiple destination fields:

[source,xml]
----
<copyField source="here" dest="there"/>
<copyField source="here" dest="elsewhere"/>
----

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* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/GSSContext.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/HostKeyRepository.java

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* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/IdentityRepository.java
* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/Signature.java
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* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/jce/HMAC.java
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* /opt/cola/permits/1000875472_1646171528.84/0/jsch-0-1-54-sources-jar/com/jcraft/jsch/UserAuthGSSAPIWithMIC.java

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1.2731 javax-ws-rs-api 2.1.1

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* /opt/cola/permits/1150996726_1654022868.8472996/0/javax-ws-rs-api-2-1-1-sources-7.jar/javax/ws/rs/sse/OutboundSseEvent.java
* /opt/cola/permits/1150996726_1654022868.8472996/0/javax-ws-rs-api-2-1-1-sources-7.jar/javax/ws/rs/NotFoundException.java
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* /opt/cola/permits/1150996726_1654022868.8472996/0/javax-ws-rs-api-2-1-1-sources-7.jar/javax/ws/rs/container/PreMatching.java
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  jar/javax/ws/rs/Priorities.java
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 * Convert the supplied value to a String.
 *
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 *
 * @param value the value of type {@code T}.
 * @return a String representation of the value.
 * @throws IllegalArgumentException if the supplied object cannot be
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 */

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  * /opt/cola/permits/1150996726_1654022868.8472996/0/javax-ws-rs-api-2-1-1-sources-7-
    jar/javax/ws/rs/ext/Providers.java
  * /opt/cola/permits/1150996726_1654022868.8472996/0/javax-ws-rs-api-2-1-1-sources-7-
    jar/javax/ws/rs/ext/package-info.java
  * /opt/cola/permits/1150996726_1654022868.8472996/0/javax-ws-rs-api-2-1-1-sources-7-
    jar/javax/ws/rs/core/Context.java
  * /opt/cola/permits/1150996726_1654022868.8472996/0/javax-ws-rs-api-2-1-1-sources-7-
    jar/javax/ws/rs/ext/ContextResolver.java
  * /opt/cola/permits/1150996726_1654022868.8472996/0/javax-ws-rs-api-2-1-1-sources-7-
    jar/javax/ws/rs/core/package-info.java
  * /opt/cola/permits/1150996726_1654022868.8472996/0/javax-ws-rs-api-2-1-1-sources-7-
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* /opt/cola/permits/1110675844_1606843768.89/0/spring-aop-4-0-2-release-sources-1-
  jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
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* /opt/cola/permits/1110675844_1606843768.89/0/spring-aop-4-0-2-release-sources-1-jar/org/springframework/aop/DynamicIntroductionAdvice.java
* /opt/cola/permits/1110675844_1606843768.89/0/spring-aop-4-0-2-release-sources-1-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /opt/cola/permits/1110675844_1606843768.89/0/spring-aop-4-0-2-release-sources-1-jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /opt/cola/permits/1110675844_1606843768.89/0/spring-aop-4-0-2-release-sources-1-jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1110675844_1606843768.89/0/spring-aop-4-0-2-release-sources-1-jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
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* /opt/cola/permits/1110675844_1606843768.89/0/spring-aop-4-0-2-release-sources-1-jar/org/springframework/aop/framework/AdvisorChainFactory.java
* /opt/cola/permits/1110675844_1606843768.89/0/spring-aop-4-0-2-release-sources-1-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java

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1.2734 backport-util-concurrent 3.1
1.2734.1 Available under license:

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Acknowledgements: backport-util-concurrent is based in large part on the public domain sources from:
1) JSR166,
2) package dl.util.concurrent,
3) Doug Lea's "collections" package.
1.2735 perl-threads-shared 1.43-6.el7

1.2735.1 Available under license:
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Name: perl-threads-shared
Version: 1.43
Release: 6%{?dist}
Summary: Perl extension for sharing data structures between threads
License: GPL+ or Artistic
Group: Development/Libraries
URL: http://search.cpan.org/dist/threads-shared/
Source0: http://www.cpan.org/authors/id/J/JD/JDHEDDEN/threads-shared-%{version}.tar.gz

BuildRequires: perl
BuildRequires: perl(Carp)
BuildRequires: perl(Config)
BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(ExtUtils::testlib)
BuildRequires: perl(File::Path)
BuildRequires: perl(File::Spec)
BuildRequires: perl(POSIX)
BuildRequires: perl(Scalar::Util)
BuildRequires: perl(strict)
BuildRequires: perl(Test::More)
BuildRequires: perl(threads) >= 1.73
BuildRequires: perl(warnings)
BuildRequires: perl(XSLoader)
Requires: perl(:MODULE_COMPAT_%(eval "\"perl -V:version\"": echo $version))
Requires: perl(Carp)
Requires: perl(threads) >= 1.73
Requires: perl(XSLoader)

%{?perl_default_filter}

%description
By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the threads module.

%prep
%setup -q -n threads-shared-%{version}

%build
perl Makefile.PL INSTALLDIRS=vendor OPTIMIZE="SRPM_OPT_FLAGS"
make %{?_smp_mflags}
%install
make pure_install DESTDIR=$RPM_BUILD_ROOT
find $RPM_BUILD_ROOT -type f -name .packlist -exec rm -f {} \\;
find $RPM_BUILD_ROOT -type f -name '*.bs' -size 0 -exec rm -f {} \\;
%{_fixperms} $RPM_BUILD_ROOT/*

%check
make test

%files
%doc Changes README
%{perl_vendorarch}/auto/*
%{perl_vendorarch}/threads*
%{_mandir}/man3/*

%changelog
* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 1.43-6
  - Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.43-5
  - Mass rebuild 2013-12-27

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-4
  - Remove BR perl(Test)

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-3
  - Specify all dependencies

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.43-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Tue Jan 15 2013 Petr Pisar <ppisar@redhat.com> - 1.43-1
  - 1.43 bump

* Fri Nov 23 2012 Jitka Plesnikova <jplesnik@redhat.com> - 1.42-2
  - Add BR perl(File::Spec)
  - Replace PERL_INSTALL_ROOT with DESTDIR
  - Remove deleting empty directories
  - Remove defattr

* Wed Oct 03 2012 Petr Pisar <ppisar@redhat.com> - 1.42-1
  - 1.42 bump

* Mon Sep 10 2012 Petr Pisar <ppisar@redhat.com> - 1.41-1
  - 1.41 bump

* Mon Aug 13 2012 Marcela Malov <mmaslano@redhat.com> - 1.40-240
  - bump release to override sub-package from perl.spec

Open Source Used In Data Center Network Manager 11.5(1) 31404
* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Wed Jun 06 2012 Petr Pisar <ppisar@redhat.com> - 1.40-3
  - Perl 5.16 rebuild

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Mon Sep 12 2011 Petr Pisar <ppisar@redhat.com> - 1.40-1
  - 1.40 bump

* Tue Sep 06 2011 Petr Pisar <ppisar@redhat.com> - 1.39-1
  - 1.39 bump

* Wed Aug 17 2011 Marcela Malov <mmaslano@redhat.com> - 1.37-3
  - change path on vendor, so our debuginfo are not conflicting with perl core debuginfos

* Mon Jun 20 2011 Marcela Malov <mmaslano@redhat.com> - 1.37-2
  - Perl mass rebuild

* Tue Apr 26 2011 Petr Pisar <ppisar@redhat.com> - 1.37-1
  - 1.37 bump

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.36-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Mon Jan 03 2011 Petr Pisar <ppisar@redhat.com> - 1.36-1
  - 1.36 bump

* Mon Oct 11 2010 Petr Pisar <ppisar@redhat.com> - 1.34-1
  - 1.34 bump

* Thu Sep 23 2010 Petr Pisar <ppisar@redhat.com> 1.33-1
  - Specfile autogenerated by cpanspec 1.78.
  - Fix dependencies
  - Requires perl(Scalar::Util) is autodetected
  - Do not provide private library
  - Remove pre-F12 BuildRoot stuff

Found in path(s):
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    /* shared.xs
* Copyright (c) 2001-2002, 2006 Larry Wall
*
* You may distribute under the terms of either the GNU General Public
* License or the Artistic License, as specified in the README file.
*
* "Hand any two wizards a piece of rope and they would instinctively pull in
* opposite directions."
* --Sourcery
*
* Contributed by Artur Bergman <sky AT crucially DOT net>
* Pulled in the (an)other direction by Nick Ing-Simmons
* <nick AT ing-simmons DOT net>
* CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>
*/
*/

/*
* Shared variables are implemented by a scheme similar to tieing.
* Each thread has a proxy SV with attached magic -- "private SVs" --
* which all point to a single SV in a separate shared interpreter
* (PL_sharedsv_space) -- "shared SVs".
*
* The shared SV holds the variable's true values, and its state is
* copied between the shared and private SVs with the usual
* mg_get()/mg_set() arrangement.
*
* Aggregates (AVs and HVs) are implemented using tie magic, except that
* the table used is one defined in this file rather than the standard one.
* This means that where a tie function like FETCH is normally invoked by
* the tie magic's mg_get() function, we completely bypass the calling of a
* perl-level function, and directly call C-level code to handle it. On
* the other hand, calls to functions like PUSH are done directly by code
* in av.c, etc., which we can't bypass. So the best we can do is to provide
* XS versions of these functions. We also have to attach a tie object,
* blessed into the class threads::shared::tie, to keep the method-calling
* code happy.
*
* Access to aggregate elements is done the usual tied way by returning a
* proxy PVLV element with attached element magic.
*
* Pointers to the shared SV are squirrelled away in the mg->mg_ptr field
* of magic (with mg_len == 0), and in the IV2PTR(SvIV(sv)) field of tied
* object SVs. These pointers have to be hidden like this because they
* cross interpreter boundaries, and we don't want sv_clear() and friends
* following them.
*
* The three basic shared types look like the following:
* -----------------
* Shared scalar (my $s : shared):
*  SV = PVMG(0x7ba238) at 0x7387a8
*  FLAGS = (PADMY,GMG,SMG)
*  MAGIC = 0x824d88
*  MG_TYPE = PERL_MAGIC_shared_scalar(n)
*  MG_PTR = 0x810358        <<<< pointer to the shared SV
*  
* -----------------
* Shared aggregate (my @a : shared; my %h : shared):
*  SV = PVAV(0x7175d0) at 0x738708
*  FLAGS = (PADMY,GMG,SMG)
*  MAGIC = 0x824e48
*  MG_TYPE = PERL_MAGIC_tied(P)
*  MG_OBJ = 0x7136e0        <<<< ref to the tied object
*  SV = RV(0x7136f0) at 0x7136e0
*  RV = 0x738640
*  SV = PVMG(0x7ba238) at 0x738640 <<<< the tied object
*  FLAGS = (OBJECT,IOK,pIOK)
*  IV = 8455064        <<<< pointer to the shared AV
*  STASH = 0x80abf0 "threads::shared::tie"
*  MG_PTR = 0x810358        "" <<<< another pointer to the shared AV
*  ARRAY = 0x0
*  
* -----------------
* Aggregate element (my @a : shared; $a[0])
*  SV = PVLV(0x77f628) at 0x713550
*  FLAGS = (GMG,SMG,RMG,pIOK)
*  MAGIC = 0x72bd58
*  MG_TYPE = PERL_MAGIC_tiedelem(p)
*  MG_OBJ = 0x7136e0        "" <<<< ref to the tied object
*  SV = RV(0x7136f0) at 0x7136e0
*  RV = 0x738640
*  SV = PVMG(0x7ba278) at 0x738660 <<<< the tied object
*  FLAGS = (OBJECT,IOK,pIOK)
*  IV = 8455064        <<<< pointer to the shared AV
*  STASH = 0x80ac30 "threads::shared::tie"
*  TYPE = t
* Note that PERL_MAGIC_tiedelem(p) magic doesn't have a pointer to a
* shared SV in mg_ptr; instead this is used to store the hash key,
* if any, like normal tied elements. Note also that element SVs may have
* pointers to both the shared aggregate and the shared element.
* *
* Userland locks:
* *
* If a shared variable is used as a perl-level lock or condition
* variable, then PERL_MAGIC_ext magic is attached to the associated
* *shared* SV, whose mg_ptr field points to a malloc'ed structure
* containing the necessary mutexes and condition variables.
* *
* Nomenclature:
* *
* In this file, any variable name prefixed with 's' (e.g., ssv, stmp or sobj)
* usually represents a shared SV which corresponds to a private SV named
* without the prefix (e.g., sv, tmp or obj).
*/

#define PERL_NO_GET_CONTEXT
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
#ifdef HAS_PPPORT_H
  #define NEED_sv_2pv_flags
  #define NEED_vnewSVpvf
  #define NEED_warner
  #define NEED_newSVpvn_flags
  #include "ppport.h"
  #include "shared.h"
#endif
#ifdef USE_ITHREADS

/* Magic signature(s) for mg_private to make PERL_MAGIC_ext magic safer */
#define UL_MAGIC_SIG 0x554C /* UL = user lock */

/*
 * The shared things need an interpreter to live in ...
 */
PerlInterpreter *PL_sharedsv_space; /* The shared sv space */
/* To access shared space we fake aTHX in this scope and thread's context */

/* Bug #24255: We include ENTER+SAVETMPS/FREETMPS+LEAVE with
 * SHARED_CONTEXT/CALLER_CONTEXT macros, so that any mortals, etc. created
 * while in the shared interpreter context don't languish */
#define SHARED_CONTEXT
STMT_START
PERL_SET_CONTEXT((aTHX = PL_sharedsv_space)); 
ENTER;  
SAVETMPS;  
} STMT_END

/* So we need a way to switch back to the caller's context... */
/* So we declare _another_ copy of the aTHX variable ... */
#define dTHXc PerlInterpreter *caller_perl = aTHX

/* ... and use it to switch back */
#define CALLER_CONTEXT
STMT_START
FREETMPS;  
LEAVE;  
PERL_SET_CONTEXT((aTHX = caller_perl));  
} STMT_END

/*
* Only one thread at a time is allowed to mess with shared space.
*/
typedef struct {
    perl_mutex       mutex;
    PerlInterpreter *owner;
    I32              locks;
    perl_cond        cond;
#ifdef DEBUG_LOCKS
    char *           file;
    int              line;
#endif
} recursive_lock_t;
recursive_lock_t PL_sharedsv_lock; /* Mutex protecting the shared sv space */
void recursive_lock_init(pTHX_ recursive_lock_t *lock) {
    Zero(lock,1,recursive_lock_t);
    MUTEX_INIT(&lock->mutex);
    COND_INIT(&lock->cond);
}
void recursive_lock_destroy(pTHX_ recursive_lock_t *lock) {
    MUTEX_DESTROY(&lock->mutex);
COND_DESTROY(&lock->cond);
}

void recursive_lock_release(pTHX_ recursive_lock_t *lock)
{
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        if (--lock->locks == 0) {
            lock->owner = NULL;
            COND_SIGNAL(&lock->cond);
        }
    }
    MUTEX_UNLOCK(&lock->mutex);
}

void recursive_lock_acquire(pTHX_ recursive_lock_t *lock, char *file, int line)
{
    PERL_UNUSED_ARG(file);
    PERL_UNUSED_ARG(line);
    assert(aTHX);
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        lock->locks++;
    } else {
        while (lock->owner) {
            #ifdef DEBUG_LOCKS
            Perl_warn(aTHX_ " %p waiting - owned by %p %s:%d\n",
                      aTHX, lock->owner, lock->file, lock->line);
            #endif
            COND_WAIT(&lock->cond,&lock->mutex);
        }
        lock->locks = 1;
        lock->owner = aTHX;
    }
    #ifdef DEBUG_LOCKS
    lock->file  = file;
    lock->line  = line;
    #endif
    MUTEX_UNLOCK(&lock->mutex);
    SAVEDESTRUCTOR_X(recursive_lock_release,lock);
}

#define ENTER_LOCK
STMT_START {
    ENTER;
    recursive_lock_acquire(aTHX_ &PL_sharedsv_lock, __FILE__, __LINE__);


/* The unlocking is done automatically at scope exit */
#define LEAVE_LOCK LEAVE

/* A common idiom is to acquire access and switch in ... */
#define SHARED_EDIT
STMT_START {
    ENTER_LOCK;
    SHARED_CONTEXT;
} STMT_END

/* ... then switch out and release access. */
#define SHARED_RELEASE
STMT_START {
    CALLER_CONTEXT;
    LEAVE_LOCK;
} STMT_END

/* User-level locks:
   This structure is attached (using ext magic) to any shared SV that
   is used by user-level locking or condition code */

typedef struct {
    recursive_lock_t lock; /* For user-level locks */
    perl_cond user_cond; /* For user-level conditions */
} user_lock;

/* Magic used for attaching user_lock structs to shared SVs 

   The vtable used has just one entry - when the SV goes away 
   we free the memory for the above. */

int sharedsv_userlock_free(pTHX_SV *sv, MAGIC *mg)
{
    user_lock *ul = (user_lock *) mg->mg_ptr;
    PERL_UNUSED_ARG(sv);
    assert(aTHX == PL_sharedsv_space);
    if (ul) {
        recursive_lock_destroy(aTHX_ &ul->lock);
        COND_DESTROY(&ul->user_cond);
        PerlMemShared_free(ul);
        mg->mg_ptr = NULL;
    }
return (0);

MGVTBL sharedsv_userlock_vtbl = {
    0,                          /* get */
    0,                          /* set */
    0,                          /* len */
    0,                          /* clear */
    sharedsv_userlock_free,    /* free */
    0,                          /* copy */
    0,                          /* dup */
#ifdef MGf_LOCAL
    0,                          /* local */
#endif
};

/* Support for dual-valued variables */
#ifndef SVf_IVisUV
# define DUALVAR_FLAGS(sv)                             
    ((SvPOK(sv))                                        
        ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK          
            : ((SvIsUV(sv)) ? (SVf_IOK | SVf_IVisUV)    
                : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0))  
            : 0)
#endif
#else
# define DUALVAR_FLAGS(sv)                             
    ((SvPOK(sv))                                        
        ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK          
            : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0))  
        : 0)
#endif

/* Access to shared things is heavily based on MAGIC
   * - in mg.h/mg.c/sv.c sense
*/

/* In any thread that has access to a shared thing there is a "proxy"
   for it in its own space which has 'MAGIC' associated which accesses
   the shared thing.
*/

extern MGVTBL sharedsv_scalar_vtbl;  /* Scalars have this vtable */
extern MGVTBL sharedsv_array_vtbl;   /* Hashes and arrays have this
                                      - like 'tie' */
extern MGVTBL sharedsv_elem_vtbl;  /* Elements of hashes and arrays have
   this AS WELL AS the scalar magic:
   The sharedsv_elem_vtbl associates the element with the array/hash and
   the sharedsv_scalar_vtbl associates it with the value*/

/* Get shared aggregate SV pointed to by threads::shared::tie magic object */

#define SHAREDSV_FROM_OBJ(sv) ((SvROK(sv)) ? INT2PTR(SV *, SvIV(SvRV(sv))) : NULL)

/* Return the user_lock structure (if any) associated with a shared SV.
* If create is true, create one if it doesn't exist
*/
STATIC user_lock *
S_get_userlock(pTHX_ SV* ssv, bool create)
{
    MAGIC *mg;
    user_lock *ul = NULL;

    assert(ssv);
    /* XXX Redesign the storage of user locks so we don't need a global
    * lock to access them ????? DAPM */
    ENTER_LOCK;

    /* Version of mg_find that also checks the private signature */
    for (mg = SvMAGIC(ssv); mg; mg = mg->mg_moremagic) {
        if ((mg->mg_type == PERL_MAGIC_ext) &&
            (mg->mg_private == UL_MAGIC_SIG))
        {
            break;
        }
    }

    if (mg) {
        ul = (user_lock*)(mg->mg_ptr);
    } else if (create) {
        dTHXc;
        SHARED_CONTEXT;
        ul = (user_lock *) PerlMemShared_malloc(sizeof(user_lock));
        Zero(ul, 1, user_lock);
        /* Attach to shared SV using ext magic */
        mg = sv_magicext(ssv, NULL, PERL_MAGIC_ext, &sharedsv_userlock_vtbl,
                         (char *)ul, 0);
        mg->mg_private = UL_MAGIC_SIG; /* Set private signature */
        recursive_lock_init(aTHX_ &ul->lock);
        COND_INIT(&ul->user_cond);
        mg->mg_moremagic = mg;
        } else { 
        mg = NULL;
    }
    RETURN LOCK;

    /* XXX Redesign the storage of user locks so we don't need a global
    * lock to access them???? DAPM */

    if (mg) {
        ul = (user_lock*)(mg->mg_ptr);
    } else if (create) {
        dTHXc;
        SHARED_CONTEXT;
        ul = (user_lock *) PerlMemShared_malloc(sizeof(user_lock));
        Zero(ul, 1, user_lock);
        /* Attach to shared SV using ext magic */
        mg = sv_magicext(ssv, NULL, PERL_MAGIC_ext, &sharedsv_userlock_vtbl,
                         (char *)ul, 0);
        mg->mg_private = UL_MAGIC_SIG; /* Set private signature */
        recursive_lock_init(aTHX_ &ul->lock);
        COND_INIT(&ul->user_cond);
        mg->mg_moremagic = mg;
    } else { 
        mg = NULL;
    }
    RETURN LOCK;
/* Given a private side SV tries to find if the SV has a shared backend, * by looking for the magic. */

SV *
Perl_sharedsv_find(pTHX_ SV *sv)
{
    MAGIC *mg;
    if (SvTYPE(sv) >= SVt_PVMG) {
        switch(SvTYPE(sv)) {
            case SVt_PVAV:
                case SVt_PVHV:
                    if ((mg = mg_find(sv, PERL_MAGIC_tied))
                        && mg->mg_virtual == &sharedsv_array_vtbl) {
                        return ((SV *)mg->mg_ptr);
                    }
                    break;
            default:
                if ((mg = mg_find(sv, PERL_MAGIC_shared_scalar))
                    && mg->mg_virtual == &sharedsv_scalar_vtbl) {
                        return ((SV *)mg->mg_ptr);
                    }
                break;
        }
        /* Just for tidyness of API also handle tie objects */
        if (SvROK(sv) && sv_derived_from(sv, "threads::shared::tie")) {
            return (SHAREDSV_FROM_OBJ(sv));
        }
        return (NULL);
    }

    /* Associate a private SV  with a shared SV by pointing the appropriate * magics at it. * Assumes lock is held. */
    void
    Perl_sharedsv_associate(pTHX_ SV *sv, SV *ssv)
MAGIC *mg = 0;

/* If we are asked for any private ops we need a thread */
assert ( aTHX != PL_sharedsv_space );

/* To avoid need for recursive locks require caller to hold lock */
assert ( PL_sharedsv_lock.owner == aTHX );

switch(SvTYPE(sv)) {
  case SVt_PVAV:
  case SVt_PVHV:
    if (! (mg = mg_find(sv, PERL_MAGIC_tied))
        || mg->mg_virtual != &sharedsv_array_vtbl
        || (SV*) mg->mg_ptr != ssv)
    {
      SV *obj = newSV(0);
      sv_setref_iv(obj, "threads::shared::tie", PTR2IV(ssv));
      if (mg) {
        sv_unmagic(sv, PERL_MAGIC_tied);
      }
      mg = sv_magicext(sv, obj, PERL_MAGIC_tied, &sharedsv_array_vtbl,
                       (char *)ssv, 0);
      mg->mg_flags |= (MGf_COPY|MGf_DUP);
      SvREFCNT_inc_void(ssv);
      SvREFCNT_dec(obj);
    }
    break;
  default:
    if ((SvTYPE(sv) < SVt_PVMG)
        || !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))
        || mg->mg_virtual != &sharedsv_scalar_vtbl
        || (SV*) mg->mg_ptr != ssv)
    {
      if (mg) {
        sv_unmagic(sv, PERL_MAGIC_shared_scalar);
      }
      mg = sv_magicext(sv, Nullsv, PERL_MAGIC_shared_scalar,
                       &sharedsv_scalar_vtbl, (char *)ssv, 0);
      mg->mg_flags |= (MGf_DUP|MGf_LOCAL);
      ifdef MGf_LOCAL
          MGf_LOCAL
      endif
      SvREFCNT_inc_void(ssv);
    }
    break;
assert (Perl_sharedsv_find(aTHX_ sv) == ssv);
}

/* Given a private SV, create and return an associated shared SV.
* Assumes lock is held.
*/
STATIC SV *
S_sharedsv_new_shared(pTHX_ SV *sv)
{
    dTHXc;
    SV *ssv;

    assert(PL_sharedsv_lock.owner == aTHX);
    assert(aTHX != PL_sharedsv_space);

    SHARED_CONTEXT;
    ssv = newSV(0);
    SvREFCNT(ssv) = 0; /* Will be upped to 1 by Perl_sharedsv_associate */
    sv_upgrade(ssv, SvTYPE(sv));
    CALLER_CONTEXT;
    Perl_sharedsv_associate(aTHX_ sv, ssv);
    return (ssv);
}

/* Given a shared SV, create and return an associated private SV.
* Assumes lock is held.
*/
STATIC SV *
S_sharedsv_new_private(pTHX_ SV *ssv)
{
    SV *sv;

    assert(PL_sharedsv_lock.owner == aTHX);
    assert(aTHX != PL_sharedsv_space);

    sv = newSV(0);
    sv_upgrade(sv, SvTYPE(ssv));
    Perl_sharedsv_associate(aTHX_ sv, ssv);
    return (sv);
}

/* A threadsafe version of SvREFCNT_dec(ssv) */
STATIC void
S_sharedsv_dec(pTHX_ SV* ssv)
{
    if (! ssv)
        return;
    ENTER_LOCK;
    if (SvREFCNT(ssv) > 1) {
        /* No side effects, so can do it lightweight */
        SvREFCNT_dec(ssv);
    } else {
        dTHXc;
        SHARED_CONTEXT;
        SvREFCNT_dec(ssv);
        CALLER_CONTEXT;
    }
    LEAVE_LOCK;
}

/* Implements Perl-level share() and :shared */

void
Perl_sharedsv_share(pTHX_ SV *sv)
{
    switch(SvTYPE(sv)) {
    case SVt_PVGV:
        Perl_croak(aTHX_ "Cannot share globs yet");
        break;
    case SVt_PVCV:
        Perl_croak(aTHX_ "Cannot share subs yet");
        break;
    default:
        ENTER_LOCK;
        (void) S_sharedsv_new_shared(aTHX_ sv);
        LEAVE_LOCK;
        SvSETMAGIC(sv);
        break;
    }
}

#ifdef WIN32
/* Number of milliseconds from 1/1/1601 to 1/1/1970 */
#define EPOCH_BIAS 11644473600000.

/* Returns relative time in milliseconds. (Adapted from Time::HiRes.) */

}
STATIC DWORD
S_abs_2_rel_milli(double abs)
{
    double rel;

    /* Get current time (in units of 100 nanoseconds since 1/1/1601) */
    union {
        FILETIME ft;
        __int64 i64;   /* 'signed' to keep compilers happy */
    } now;
    GetSystemTimeAsFileTime(&now.ft);

    /* Relative time in milliseconds */
    rel = (abs * 1000.) - (((double)now.i64 / 10000.) - EPOCH_BIAS);
    if (rel <= 0.0) {
        return (0);
    }
    return (DWORD)rel;
}

#else
# if defined(OS2)
    #define ABS2RELMILLI(abs)             
        do {                                
            abs -= (double)time(NULL);      
            if (abs > 0) { abs *= 1000; }   
            else { abs = 0; }   
        } while (0)
# endif /* OS2 */
#endif /* WIN32 */

/* Do OS-specific condition timed wait */

bool
Perl_sharedsv_cond_timedwait(perl_cond *cond, perl_mutex *mut, double abs)
{
    #if defined(NETWARE) || defined(FAKE_THREADS) || defined(I_MACH_CTHREADS)
        Perl_croak_nocontext("cond_timedwait not supported on this platform");
    #else
        # ifdef WIN32
            int got_it = 0;

            cond->waiters++;
            MUTEX_UNLOCK(mut);
            /* See comments in win32/win32thread.h COND_WAIT vis-a-vis race */
            switch (WaitForSingleObject(cond->sem, S_abs_2_rel_milli(abs))) {
                case WAIT_OBJECT_0: got_it = 1; break;
        #endif /* WIN32 */
case WAIT_TIMEOUT:       break;
default:
    /* WAIT_FAILED? WAIT_ABANDONED? others? */
    Perl_croak_nocontext("panic: cond_timedwait (%ld).GetLastError()");
    break;
}
MUTEX_LOCK(mut);
cond->waiters--;
return (got_it);
#else
    ifdef OS2
    int rc, got_it = 0;
    STRLEN n_a;

    ABS2RELMILLI(abs);

    if ((rc = DosResetEventSem(*cond,&n_a)) && (rc != ERROR_ALREADY_RESET))
        Perl_rc = rc, croak_with_os2error("panic: cond_timedwait-reset");
    MUTEX_UNLOCK(mut);
    if (CheckOSError(DosWaitEventSem(*cond,abs))
        && (rc != ERROR_INTERRUPT))
        croak_with_os2error("panic: cond_timedwait");
    if (rc == ERROR_INTERRUPT) errno = EINTR;
    MUTEX_LOCK(mut);
    return (got_it);
#else         /* Hope you're I_PTHREAD! */
    struct timespec ts;
    int got_it = 0;

    ts.tv_sec = (long)abs;
    abs -= (NV)ts.tv_sec;
    ts.tv_nsec = (long)(abs * 1000000000.0);

    switch (pthread_cond_timedwait(cond, mut, &ts)) {
        case 0:         got_it = 1; break;
        case ETIMEDOUT: break;
    #ifdef OEMVS
        case -1:
            if (errno == ETIMEDOUT || errno == EAGAIN)
                break;
    #endif
        default:
            Perl_croak_nocontext("panic: cond_timedwait");
            break;
    }
    return (got_it);
#endif /* OS2 */
#endif /* WIN32 */
/* Given a thingy referenced by a shared RV, copy it's value to a private
 * RV, also copying the object status of the referent.
 * If the private side is already an appropriate RV->SV combination, keep
 * it if possible.
 */

STATIC void
S_get_RV(pTHX_ SV *sv, SV *sobj) {
    SV *obj;
    if (! (SvROK(sv) &&
            (obj = SvRV(sv))) &&
            (Perl_sharedsv_find(aTHX_ obj) == sobj) &&
            (SvTYPE(obj) == SvTYPE(sobj))))
    {
        /* Can't reuse obj */
        if (SvROK(sv)) {
            SvREFCNT_dec(SvRV(sv));
        } else {
            assert(SvTYPE(sv) >= SVt_RV);
            sv_setsv_nomg(sv, &PL_sv_undef);
            SvROK_on(sv);
        }
        obj = S_sharedsv_new_private(aTHX_ sobj);
        SvRV_set(sv, obj);
    }
    if (SvOBJECT(obj)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(obj));
        SvOBJECT_off(obj);
    }
    if (SvOBJECT(sobj)) {
        /* Add any new old blessing */
        STRLEN len;
        char* stash_ptr = SvPV((SV*) SvSTASH(sobj), len);
        HV* stash = gv_stashpvn(stash_ptr, len, TRUE);
        SvOBJECT_on(obj);
        SvSTASH_set(obj, (HV*)SvREFCNT_inc(stash));
    }
}

/* Every caller of S_get_RV needs this incantation (which cannot go inside
 * S_get_RV itself, as we do not want recursion beyond one level): */
#define get_RV(sv, sobj)                     \
    S_get_RV(aTHX_ sv, sobj);            \

/* Look ahead for refs of refs */
if (SvROK(sobj)) {
    SvROK_on(SvRV(sv));
    S_get_RV(aTHX_ SvRV(sv), SvRV(sobj));
}

/* Get magic for PERL_MAGIC_shared_scalar(n) */

int
sharedsv_scalar_mg_get(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV *) mg->mg_ptr;
    assert(ssv);

    ENTER_LOCK;
    if (SvROK(ssv)) {
        get_RV(sv, SvRV(ssv));
    } else {
        sv_setsv_nomg(sv, ssv);
    }
    LEAVE_LOCK;
    return (0);
}

/* Copy the contents of a private SV to a shared SV. */
/* Used by various mg_set()-type functions. */
/* Assumes lock is held. */

void
sharedsv_scalar_store(pTHX_ SV *sv, SV *ssv)
{
    dTHXc;
    bool allowed = TRUE;

    assert(PL_sharedsv_lock.owner == aTHX);
    if (!PL_dirty && &SvROK(ssv) && &SvREFCNT(SvRV(ssv)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV(ssv));
    }
    if (SvROK(sv)) {
        SV *obj = SvRV(sv);
        SV *sobj = Perl_sharedsv_find(aTHX_ obj);
        if (sobj) {
            SHARED_CONTEXT;
        }
(void)SvUPGRADE(ssv, SVt_RV);
sv_setsv_nomg(ssv, &PL_sv_undef);

SvRV_set(ssv, SvREFCNT_inc(sobj));
SvROK_on(ssv);
if (SvOBJECT(sobj)) {
    /* Remove any old blessing */
    SvREFCNT_dec(SvSTASH(sobj));
    SvOBJECT_off(sobj);
}
if (SvOBJECT(obj)) {
    SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(obj)),0);
    SvOBJECT_on(sobj);
    SvSTASH_set(sobj, (HV*)fake_stash);
    CALLER_CONTEXT;
} else {
    allowed = FALSE;
}
} else {
    SvTEMP_off(sv);
    SHARED_CONTEXT;
    sv_setsv_nomg(ssv, sv);
    if (SvOBJECT(ssv)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(ssv));
        SvOBJECT_off(ssv);
    }
    if (SvOBJECT(sv)) {
        SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(sv)),0);
        SvOBJECT_on(ssv);
        SvSTASH_set(ssv, (HV*)fake_stash);
        CALLER_CONTEXT;
    } else {
        Perl_croak(aTHX_ "Invalid value for shared scalar");
    }
}

/* Set magic for PERL_MAGIC_shared_scalar(n) */

int
sharedsv_scalar_mg_set(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV*)(mg->mg_ptr);
    assert(ssv);
    ENTER_LOCK;
if (SvTYPE(ssv) < SvTYPE(sv)) {
    dTHXc;
    SHAREDCONTEXT;
    sv_upgrade(ssv, SvTYPE(sv));
    CALLERCONTEXT;
}
sharedsv_scalar_store(aTHX_sv, ssv);
LEAVE_LOCK;
return (0);
}

/* Free magic for PERL_MAGIC_shared_scalar(n) */

int sharedsv_scalar_mg_free(pTHX_ SV*sv, MAGIC*mg)
{
    PERLUNUSED_ARG(sv);
    ENTER_LOCK;
    if (!PL_dirty && SvROK((SV*)mg->mg_ptr) && SvREFCNT(SvRV((SV*)mg->mg_ptr)) == 1) {
        SV*sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV((SV*)mg->mg_ptr));
    }
    S_sharedsv_dec(aTHX_(SV*)mg->mg_ptr);
    LEAVE_LOCK;
    return (0);
}

/*
* Called during cloning of PERL_MAGIC_shared_scalar(n) magic in new thread
*/
int sharedsv_scalar_mg_dup(pTHX_MAGIC*mg, CLONE_PARAMS*param)
{
    PERLUNUSED_ARG(param);
    SvREFCNT_inc_void((mg->mg_ptr));
    return (0);
}

#ifdef MGf_LOCAL
/*
* Called during local $shared
*/
int sharedsv_scalar_mg_local(pTHX_SV*nsv, MAGIC*mg)
{
    MAGIC*mg;
}
SV *ssv = (SV *) mg->mg_ptr;
if (ssv) {
    ENTER_LOCK;
    SvREFCNT_inc_void(ssv);
    LEAVE_LOCK;
}
nmg = sv_magicext(nsv, mg->mg_obj, mg->mg_type, mg->mg_virtual,
    mg->mg_ptr, mg->mg_len);
nmg->mg_flags = mg->mg_flags;
nmg->mg_private = mg->mg_private;

    return (0);
}
#endif

MGVTBL sharedsv_scalar_vtbl = {
sharedsv_scalar_mg_get,     /* get */
sharedsv_scalar_mg_set,     /* set */
0, /* len */
0, /* clear */
sharedsv_scalar_mg_free,    /* free */
0, /* copy */
sharedsv_scalar_mg_dup,     /* dup */
#ifdef MGf_LOCAL
sharedsv_scalar_mg_local,   /* local */
#endif
sharedsv_scalar_mg_local,   /* local */
};

/* ------------ PERL_MAGIC_tiedelem(p) functions -------------- */
/* Get magic for PERL_MAGIC_tiedelem(p) */

int sharedsv_elem_mg_FETCH(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV** svp = NULL;

    ENTER_LOCK;
    if (saggregate) { /* During global destruction, underlying aggregate may no longer exist */
if (SvTYPE(saggregate) == SVt_PVAV) {
    assert ( mg->mg_ptr == 0 );
    SHARED_CONTEXT;
    svp = av_fetch((AV*) saggregate, mg->mg_len, 0);
} else {
    char *key = mg->mg_ptr;
}
len = mg->mg_len;
assert ( mg->mg_ptr != 0 );
if (mg->mg_len == HEf_SVKEY) {
    STRLEN slen;
    key = SvPV((SV *)mg->mg_ptr, slen);
    len = slen;
    if (SvUTF8((SV *)mg->mg_ptr)) {
        len = -len;
        }
} SHARED_CONTEXT;
svp = hv_fetch((HV*) s aggregate, key, len, 0);
} CALLER_CONTEXT;
}
if (svp) {
    /* Exists in the array */
if (SvROK(*svp)) {
    get_RV(sv, SvRV(*svp));
} else {
    /* Sary->[elem] or Sary->{elem} is a scalar */
    Perl_sharedsv_associate(aTHX_ sv, *svp);
    sv_setsv(sv, *svp);
    }
} else {
    /* Not in the array */
    sv_setsv(sv, &PL_sv_undef);
    }
    LEAVE_LOCK;
return (0);
}

/* Set magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_STORE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDV_FROM_OBJ(mg->mg_obj);
    SV **svp;
    U32 dualvar_flags = DUALVAR_FLAGS(sv);

    /* Theory - SV itself is magically shared - and we have ordered the 
    magic such that by the time we get here it has been stored 
    to its shared counterpart 
    */
    ENTER_LOCK;
assert(saggregate);


if (SvTYPE(saggregate) == SVt_PVAV) {
    assert (mg->mg_ptr == 0);
    SHARED_CONTEXT;
    svp = av_fetch((AV*) saggregate, mg->mg_len, 1);
} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert (mg->mg_ptr != 0);
    if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV *)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV *)mg->mg_ptr)) {
            len = -len;
        }
    }
    SHARED_CONTEXT;
    svp = hv_fetch((HV*) saggregate, key, len, 1);
}
CALLER_CONTEXT;
Perl_sharedsv_associate(aTHX_ sv, *svp);
sharedsv_scalar_store(aTHX_ sv, *svp);
SvFLAGS(*svp) |= dualvar_flags;
LEAVE_LOCK;
return (0);

/* Clear magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_DELETE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    MAGIC *shmg;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);

    /* Object may not exist during global destruction */
    if (!saggregate) {
        return (0);
    }

    ENTER_LOCK;
    sharedsv_elem_mg_FETCH(aTHX_ sv, mg);
    if ((shmg = mg_find(sv, PERL_MAGIC_shared_scalar)))
        sharedsv_scalar_mg_get(aTHX_ sv, shmg);
    if (SvTYPE(saggregate) == SVt_PVAV) {
        SHARED_CONTEXT;
        av_delete((AV*) saggregate, mg->mg_len, G_DISCARD);
    }
} else {
    char *key = mg->mg_ptr;
    I32 len = mg->mg_len;
    assert ( mg->mg_ptr != 0 );
    if (mg->mg_len == HEf_SVKEY) {
        STRLEN slen;
        key = SvPV((SV *)mg->mg_ptr, slen);
        len = slen;
        if (SvUTF8((SV *)mg->mg_ptr)) {
            len = -len;
        }
    }
    SHARED_CONTEXT;
    (void) hv_delete((HV*) saggregate, key, len, G_DISCARD);
}
CALLER_CONTEXT;
LEAVE_LOCK;
return (0);
}

/* Called during cloning of PERL_MAGIC_tiedelem(p) magic in new
 * thread */

int
sharedsv_elem_mg_dup(pTHX_MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(SHAREDSV_FROM_OBJ(mg->mg_obj));
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

MGVTBL sharedsv_elem_vtbl = {
    sharedsv_elem_mg_FETCH,     /* get */
    sharedsv_elem_mg_STORE,     /* set */
    0,                          /* len */
    sharedsv_elem_mg_DELETE,    /* clear */
    0,                          /* free */
    0,                          /* copy */
    sharedsv_elem_mg_dup,       /* dup */
#ifdef MGf_LOCAL
    0,                          /* local */
#endif
};

/*-------------- PERL_MAGIC_tied(P) functions --------------*/

/* Len magic for PERL_MAGIC_tied(P) */
U32
sharedsv_array_mg_FETCHSIZE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    U32 val;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (SvTYPE(ssv) == SVt_PVAV) {
        val = av_len((AV*) ssv);
    } else {
        /* Not actually defined by tie API but ... */
        val = HvUSEDKEYS((HV*) ssv);
    }
    SHARED_RELEASE;
    return (val);
}
/* Clear magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_CLEAR(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    const bool isav = SvTYPE(ssv) == SVt_PVAV;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (!PL_dirty) {
        SV **svp = isav ? AvARRAY((AV *)ssv) : NULL;
        I32 items = isav ? AvFILLp((AV *)ssv) + 1 : 0;
        HE *iter;
        if (!isav) hv_iterinit((HV *)ssv);
        while (isav ? items-- : !!(iter = hv_iternext((HV *)ssv))) {
            SV *sv = isav ? *svp++ : HeVAL(iter);
            if (!sv) continue;
            if ( (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv))))
                && SvREFCNT(sv) == 1 ) {
                SV *tmp = Perl_sv_newmortal(caller_perl);
                PERL_SET_CONTEXT((aTHX = caller_perl));
                sv_upgrade(tmp, SVt_RV);
                get_RV(tmp, sv);
                PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
            }
        }
    }
    if (isav) av_clear((AV*) ssv);
else    hv_clear((HV*) ssv);
SHARED_RELEASE;
    return (0);
}

/* Free magic for PERL_MAGIC_tied(P) */

int sharedsv_array_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    return (0);
}

/*
* Copy magic for PERL_MAGIC_tied(P)
* This is called when perl is about to access an element of
* the array -
*/
#if PERL_VERSION >= 11
int sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
    SV *nsv, const char *name, I32 namlen)
#else
int sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
    SV *nsv, const char *name, int namlen)
#endif
{
    MAGIC *nmg = sv_magicext(nsv,mg->mg_obj,
        toLOWER(mg->mg_type),&sharedsv_elem_vtbl,
        name, namlen);
    PERL_UNUSED_ARG(sv);
    nmg->mg_flags |= MGf_DUP;
    return (1);
}

/* Called during cloning of PERL_MAGIC_tied(P) magic in new thread */

int sharedsv_array_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void((SV*)mg->mg_ptr);
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}
MGVTBL sharedsv_array_vtbl = {
    0,    /* get */
    0,    /* set */
    sharedsv_array_mg_FETCHSIZE, /* len */
    sharedsv_array_mg_CLEAR,    /* clear */
    sharedsv_array_mg_free,     /* free */
    sharedsv_array_mg_copy,     /* copy */
    sharedsv_array_mg_dup,      /* dup */
    #ifdef MGf_LOCAL
    0,    /* local */
    #endif
};

/* Recursively unlocks a shared sv. */

void
Perl_sharedsv_unlock(pTHX_ SV *ssv)
{
    user_lock *ul = S_get_userlock(aTHX_ ssv, 0);
    assert(ul);
    recursive_lock_release(aTHX_ &ul->lock);
}

/* Recursive locks on a sharedsv.
 * Locks are dynamically scoped at the level of the first lock.
 */

void
Perl_sharedsv_lock(pTHX_ SV *ssv)
{
    user_lock *ul;
    if (! ssv)
        return;
    ul = S_get_userlock(aTHX_ ssv, 1);
    recursive_lock_acquire(aTHX_ &ul->lock, __FILE__, __LINE__);
}

/* Handles calls from lock() builtin via PL_lockhook */

void
Perl_sharedsv_locksv(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);

ssv = Perl_sharedsv_find(aTHX_ sv);
fif (!ssv)
    croak("lock can only be used on shared values");
Perl_sharedsv_lock(aTHX_ ssv);
}

/* Can a shared object be destroyed? 
* True if not a shared, 
* or if destroying last proxy on a shared object */
#ifdef PL_destroyhook
bool
Perl_shared_object_destroy(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    return (!ssv || (SvREFCNT(ssv) <= 1));
}
#endif

/* veto signal dispatch if we have the lock */
#ifdef PL_signalhook
STATIC despatch_signals_proc_t prev_signal_hook = NULL;

STATIC void
S_shared_signal_hook(pTHX) {
    int us;
    MUTEX LOCK(&PL_sharedsv_lock.mutex);
    us = (PL_sharedsv_lock.owner == aTHX);
    MUTEX UNLOCK(&PL_sharedsv_lock.mutex);
    if (us)
        return; /* try again later */
    prev_signal_hook(aTHX);
}
#endif

/* Saves a space for keeping SVs wider than an interpreter. */

void
Perl_sharedsv_init(pTHX)
{
    dTHXc;
/* This pair leaves us in shared context ... */
PL_sharedsv_space = perl_alloc();
perl_construct(PL_sharedsv_space);
LEAVE; /* This balances the ENTER at the end of perl_construct. */
PERL_SETCONTEXT((aTHX = caller_perl));
recursive_lock_init(aTHX_ &PL_sharedsv_lock);
PL_lockhook = &Perl_sharedsv_locksv;
PL_sharehook = &Perl_sharedsv_share;
#endif /* USE_ITHREADS */
MODULE = threads::shared PACKAGE = threads::shared::tie

PROTOTYPES: DISABLE

#endif /* USE_ITHREADS */

void
PUSH(SV *obj, ...)

CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
int ii;
for (ii = 1; ii < items; ii++) {
    SV* tmp = newSVsv(ST(ii));
    SV *stmp;
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    ENTER_LOCK;
    stmp = S_sharedsv_new_shared(aTHX_ tmp);
    sharedsv_scalar_store(aTHX_ tmp, stmp);
    SvFLAGS(stmp) |= dualvar_flags;
    SHARED_CONTEXT;
    av_push((AV*) sobj, stmp);
    SvREFCNT_inc_void(stmp);
    SHARED_RELEASE;
    SvREFCNT_dec(tmp);
}
void
UNSHIFT(SV *obj, ...)

CODE:
dTHXc;
SV *sobj = SHARED Sv_FROM_OBJ(obj);
int ii;
ENTER_LOCK;
SHARED_CONTEXT;
av_unshift((AV*)sobj, items - 1);
CALLER_CONTEXT;
for (ii = 1; ii < items; ii++) {
    SV *tmp = newSVsv(ST(ii));
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    SV *stmp = SHARED Sv_new_shared(aTHX_tmp);
    sharedsv_scalar_store(aTHX_tmp, stmp);
    SHARED_CONTEXT;
    SvFLAGS(stmp) |= dualvar_flags;
    av_store((AV*)sobj, ii - 1, stmp);
    SHARED_CONTEXT;
    SvREFCNT_inc_void(stmp);
}
LEAVE_LOCK;

void
POP(SV *obj)

CODE:
dTHXc;
SV *sobj = SHARED Sv_FROM_OBJ(obj);
SV* ssv;
ENTER_LOCK;
SHARED_CONTEXT;
ssv = av_pop((AV*)sobj);
CALLER_CONTEXT;
ST(0) = sv_newmortal();
Perl_sharedsv_associate(aTHX_ST(0), ssv);
SvREFCNT_dec(ssv);
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void
SHIFT(SV *obj)

CODE:
dTHXc;
SV *sobj = SHARED Sv_FROM_OBJ(obj);
SV* ssv;
ENTER_LOCK;
SHARED_CONTEXT;
ssv = av_shift((AV*)sobj);
CALLER_CONTEXT;
ST(0) = sv_newmortal();
Perl_sharedsv_associate(aTHX_ST(0), ssv);
SvREFCNT_dec(ssv);
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void
EXTEND(SV *obj, IV count)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
SHARED_EDIT;
av_extend((AV*)sobj, count);
SHARED_RELEASE;

void
STORESIZE(SV *obj, IV count)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
SHARED_EDIT;
av_fill((AV*) sobj, count);
SHARED_RELEASE;

void
EXISTS(SV *obj, SV *index)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
bool exists;
if (SvTYPE(sobj) == SVt_PVAV) {
    SHARED_EDIT;
    exists = av_exists((AV*) sobj, SvIV(index));
} else {
    I32 len;
    STRLEN slen;
    char *key = SvPVutf8(index, slen);
    len = slen;
    if (SvUTF8(index)) {
        len = -len;
    }
void FIRSTKEY(SV *obj)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;
ENTER_LOCK;
SHARED_CONTEXT;
hv_iterinit((HV*) sobj);
entry = hv_iternext((HV*) sobj);
if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void NEXTKEY(SV *obj, SV *oldkey)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;

PERL_UNUSED_VAR(oldkey);

ENTER_LOCK;
SHARED_CONTEXT;
entry = hv_iternext((HV*) sobj);
if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
}

LEAVE_LOCK;
/* XSRETURN(1); - implied */

MODULE = threads::shared PACKAGE = threads::shared

PROTOTYPES: ENABLE

void
_id(SV *myref)
  PROTOTYPE: \[$@%]
  PREINIT:
    SV *ssv;
  CODE:
    myref = SvRV(myref);
    if (SvMAGICAL(myref))
        mg_get(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv)
        XSRETURN_UNDEF;
    ST(0) = sv_2mortal(newSVuv(PTR2UV(ssv)));
    /* XSRETURN(1); - implied */

void
_refcnt(SV *myref)
  PROTOTYPE: \[$@%]
  PREINIT:
    SV *ssv;
  CODE:
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv) {
        if (ckWARN(WARN_THREADS)) {
            Perl_warner(aTHX_ packWARN(WARN_THREADS),


"%" SVf " is not shared", ST(0));

    XSRETURN_UNDEF;
    }
    ST(0) = sv_2mortal(newSViv(SvREFCNT(ssv)));
    /* XSRETURN(1); - implied */

    void
    share(SV *myref)
    PROTOTYPE: |$@%|
    CODE:
    if (!SvROK(myref))
        Perl_croak(aTHX_ "Argument to share needs to be passed as ref");
        myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    Perl_sharedsv_share(aTHX_ myref);
    ST(0) = sv_2mortal(newRV_inc(myref));
    /* XSRETURN(1); - implied */

    void
    cond_wait(SV *ref_cond, SV *ref_lock = 0)
    PROTOTYPE: |$@%|;$@%
    PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;
    CODE:
    if (!SvROK(ref_cond))
        Perl_croak(aTHX_ "Argument to cond_wait needs to be passed as ref");
        ref_cond = SvRV(ref_cond);
    if (SvROK(ref_cond))
        ref_cond = SvRV(ref_cond);
    ssv = Perl_sharedsv_find(aTHX_ ref_cond);
    if (!ssv)
        Perl_croak(aTHX_ "cond_wait can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);
    user_condition = &ul->user_condition;
    if (ref_lock && (ref_cond != ref_lock)) {
        if (!SvROK(ref_lock))
            Perl_croak(aTHX_ "cond_wait lock needs to be passed as ref");
        ref_lock = SvRV(ref_lock);
        if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
        ssv = Perl_sharedsv_find(aTHX_ ref_lock);
if (! ssv)
    Perl_croak(aTHX_ "cond_wait lock must be a shared value");
ul = S_get_userlock(aTHX_ ssv, 1);
}
if (ul->lock.owner != aTHX)
    croak("You need a lock before you can cond_wait");

/* Stealing the members of the lock object worries me - NI-S */
MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;

/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
COND_WAIT(user_condition, &ul->lock.mutex);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

int
cond_timedwait(SV *ref_cond, double abs, SV *ref_lock = 0)
PROTOTYPE: |\[$@%]$|$[\$@%]|
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;
CODE:
if (! SvROK(ref_cond))
    Perl_croak(aTHX_ "Argument to cond_timedwait needs to be passed as ref");
ref_cond = SvRV(ref_cond);
if (SvROK(ref_cond))
    ref_cond = SvRV(ref_cond);
ssv = Perl_sharedsv_find(aTHX_ ref_cond);
if (! ssv)
    Perl_croak(aTHX_ "cond_timedwait can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);
user_condition = &ul->user_cond;
if (ref_lock && (ref_cond != ref_lock)) {
    if (! SvROK(ref_lock))
Perl_croak(aTHX, "cond_timedwait lock needs to be passed as ref");
ref_lock = SvRV(ref_lock);
if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
ssv = Perl_sharedsv_find(aTHX, ref_lock);
if (! ssv)
    Perl_croak(aTHX, "cond_timedwait lock must be a shared value");
ul = S_get_userlock(aTHX, ssv, 1);
}
if (ul->lock.owner != aTHX)
    Perl_croak(aTHX, "You need a lock before you can cond_wait");
MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;
/* Since we are releasing the lock here, we need to tell other
   * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
RETVAL = Perl_sharedsv_cond_timedwait(user_condition, &ul->lock.mutex, abs);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock... */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);
if (RETVAL == 0)
    XSRETURN_UNDEF;
OUTPUT:
    RETVAL

void
cond_signal(SV *myref)
PROTOTYPE: [S@$%]
PREINIT:
    SV *ssv;
    user_lock *ul;
CODE:
    if (! SvROK(myref))
        Perl_croak(aTHX, "Argument to cond_signal needs to be passed as ref");
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX, myref);
    if (! ssv)
        Perl_croak(aTHX, "cond_signal can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);
if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
    Perl_warner(aTHX_ packWARN(WARN_THREADS),
        "cond_signal() called on unlocked variable");
}
COND_SIGNAL(&ul->user_cond);

void cond_broadcast(SV *myref)
PROTOTYPE: ![S@%]
PREINIT:
    SV *ssv;
    user_lock *ul;
CODE:
    if (! SvROK(myref))
        Perl_croak(aTHX_ "Argument to cond_broadcast needs to be passed as ref");
    myref = SvRV(myref);
    if (!SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (!ssv)
        Perl_croak(aTHX_ "cond_broadcast can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);
    if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
        Perl_warner(aTHX_ packWARN(WARN_THREADS),
            "cond_broadcast() called on unlocked variable");
    }
    COND_BROADCAST(&ul->user_cond);

void bless(SV* myref, ...)
PROTOTYPE: $;$
PREINIT:
    HV* stash;
    SV *ssv;
CODE:
    if (items == 1) {
        stash = CopSTASH(PL_curcop);
    } else {
        SV* classname = ST(1);
        STRLEN len;
        char *ptr;

        if (classname &&
            !SvGMAGICAL(classname) &&
            !SvAMAGIC(classname) &&
            ...
SvROK(classname))
{
    Perl_croak(aTHX_ "Attempt to bless into a reference");
}
ptr = SvPV(classname, len);
if (ckWARN(WARN_MISC) && len == 0) {
    Perl_warner(aTHX_ packWARN(WARN_MISC),
        "Explicit blessing to " (assuming package main");
}
stash = gv_stashpvn(ptr, len, TRUE);
}
SvREFCNT_inc_void(myref);
(void)sv_bless(myref, stash);
ST(0) = sv_2mortal(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (ssv) {
    dTHXc;
    ENTER_LOCK;
    SHAREDCONTEXT;
    {
        SV* fake_stash = newSVpv(HvNAME_get(stash), 0);
        (void)sv_bless(ssv, (HV*)fake_stash);
    }
    CALLERCONTEXT;
    LEAVELOCK;
}
// XSRETURN(1); - implied */
#endif /* USE_ITHREADS */

BOOT:
{
#ifdef USE_ITHREADS
    Perl_sharedsv_init(aTHX);
#endif /* USE_ITHREADS */
}

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=head1 NAME
treads::shared - Perl extension for sharing data structures between threads

=head1 VERSION
This document describes threads::shared version 1.43

=head1 SYNOPSIS

```perl
use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone({'foo' => [qw/foo bar baz/]});

$hsh{'foo'} = $scalar_value;
$hsh{'bar'} = $shared_ref_value;
$hsh{'baz'} = shared_clone($non_shared_ref_value);
$hsh{'quz'} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {}, [] ]); 

{ lock(%hash); ...  }

cond_wait($scalar);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
cond_signal(%hash);
```

my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);

=head1 DESCRIPTION

By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It
is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal> and C<cond_broadcast>

Note that if this module is imported when L<threads> has not yet been loaded, then these functions all become no-ops. This makes it possible to write modules that will work in both threaded and non-threaded environments.

=head1 FUNCTIONS

=over 4

=item share VARIABLE

C<share> takes a variable and marks it as shared:

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

C<share> will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the C<:shared> attribute:

my ($var, %hash, @array) :shared;

Shared variables can only store scalars, refs of shared variables, or refs of shared data (discussed in next section):

my ($var, %hash, @array) :shared;
my $bork;

# Storing scalars
$var = 1;
$hash{'foo'} = 'bar';
$array[0] = 1.5;

# Storing shared refs
$var = %hash;
$hash{'ary'} = \@array;
$array[1] = \$var;
# The following are errors:
# $var = \$bork;
# ref of non-shared variable
# $hash{'bork'} = [];
# non-shared array ref
# push(@array, { 'x' => 1 });
# non-shared hash ref
=item shared_clone REF
C<shared_clone> takes a reference, and returns a shared version of its
argument, performing a deep copy on any non-shared elements. Any shared
elements in the argument are used as is (i.e., they are not cloned).
my $cpy = shared_clone({'foo' => [qw/foo bar baz/]});
Object status (i.e., the class an object is blessed into) is also cloned.
my $obj = {'foo' => [qw/foo bar baz/]};
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
print(ref($cpy), "\n");
# Outputs 'Foo'
For cloning empty array or hash refs, the following may also be used:
$var = &share([]); # Same as $var = shared_clone([]);
$var = &share({}); # Same as $var = shared_clone({});
Not all Perl data types can be cloned (e.g., globs, code refs). By default,
C<shared_clone> will L<croak|Carp> if it encounters such items. To change
this behaviour to a warning, then set the following:
$threads::shared::clone_warn = 1;
In this case, C<undef> will be substituted for the item to be cloned. If
set to zero:
$threads::shared::clone_warn = 0;
then the C<undef> substitution will be performed silently.
=item is_shared VARIABLE
C<is_shared> checks if the specified variable is shared or not. If shared,
returns the variable's internal ID (similar to
L<refaddr()|Scalar::Util/"refaddr EXPR">). Otherwise, returns C<undef>.
if (is_shared($var)) {

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print("$var is shared\n");
} else {
    print("$var is not shared\n");
}

When used on an element of an array or hash, C<is_shared> checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

my %hash :shared;
if (is_shared(%hash)) {
    print("%hash is shared\n");
}

$hash{'elem'} = 1;
if (is_shared($hash{'elem'})) {
    print("$hash{'elem'} is in a shared hash\n");
}

==item lock VARIABLE

C<lock> places a B<advisory> lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the C<lock> call will block until it's available. Multiple calls to C<lock> by the same thread from within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly I<one> level:

my %hash :shared;
my $ref = %hash;
lock($ref);   # This is equivalent to lock(%hash)

Note that you cannot explicitly unlock a variable; you can only wait for the lock to go out of scope. This is most easily accomplished by locking the variable inside a block.

my $var :shared;
{
    lock($var);
    # $var is locked from here to the end of the block
    ...
}
# $var is now unlocked

As locks are advisory, they do not prevent data access or modification by another thread that does not itself attempt to obtain a lock on the variable.
You cannot lock the individual elements of a container variable:

```perl
my %hash :shared;
$hash{'foo'} = 'bar';
#lock($hash{'foo'});          # Error
lock(%hash);                  # Works
```

If you need more fine-grained control over shared variable access, see L<Thread::Semaphore>.

=item cond_wait VARIABLE

=item cond_wait CONDVAR, LOCKVAR

The C<cond_wait> function takes a B<locked> variable as a parameter, unlocks the variable, and blocks until another thread does a C<cond_signal> or C<cond_broadcast> for that same locked variable. The variable that C<cond_wait> blocked on is re-locked after the C<cond_wait> is satisfied. If there are multiple threads C<cond_wait>ing on the same variable, all but one will re-block waiting to reacquire the lock on the variable. (So if you're only using C<cond_wait> for synchronization, give up the lock as soon as possible). The two actions of unlocking the variable and entering the blocked wait state are atomic, the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, C<cond_wait> takes a shared, B<unlocked> variable followed by a shared, B<locked> variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread C<cond_signal> or C<cond_broadcast> on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:

```perl
{ lock($counter); cond_wait($counter) until $counter == 0; }
```

=item cond_timedwait VARIABLE, ABS_TIMEOUT

=item cond_timedwait CONDVAR, ABS_TIMEOUT, LOCKVAR

In its two-argument form, C<cond_timedwait> takes a B<locked> variable and an absolute timeout in I<epoch> seconds (see L<time()> in perlfunc/perlfunc/time> for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.
Like C<cond_wait>, this function may take a shared, B<locked> variable as an additional parameter; in this case the first parameter is an B<unlocked> condition variable protected by a distinct lock variable.

Again like C<cond_wait>, waking up and reacquiring the lock are not atomic, and you should always check your desired condition after this function returns. Since the timeout is an absolute value, however, it does not have to be recalculated with each pass:

```perl
lock($var);
my $abs = time() + 15;
until ($ok = desired_condition($var)) {
    last if !cond_timedwait($var, $abs);
}
# we got it if $ok, otherwise we timed out!
```

=item cond_signal VARIABLE

The C<cond_signal> function takes a B<locked> variable as a parameter and unblocks one thread that's C<cond_wait>ing on that variable. If more than one thread is blocked in a C<cond_wait> on that variable, only one (and which one is indeterminate) will be unblocked.

If there are no threads blocked in a C<cond_wait> on the variable, the signal is discarded. By always locking before signaling, you can (with care), avoid signaling before another thread has entered cond_wait().

C<cond_signal> will normally generate a warning if you attempt to use it on an unlocked variable. On the rare occasions where doing this may be sensible, you can suppress the warning with:

```perl
{ no warnings 'threads'; cond_signal($foo); }
```

=item cond_broadcast VARIABLE

The C<cond_broadcast> function works similarly to C<cond_signal>. C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in a C<cond_wait> on the locked variable, rather than only one.

=head1 OBJECTS

L<threads::shared> exports a version of L<bless()|perlfunc/"bless REF"> that works on shared objects such that I<blessings> propagate across threads.

# Create a shared 'Foo' object
my $foo :shared = shared_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

# Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    #bless($foo->{'bar'}, 'Yang');

    # Retrieve and rebless the inner object
    my $obj = $foo->{'bar'};
bless($obj, 'Yang');
    $foo->{'bar'} = $obj;
});->join();

print(ref($foo),          "\n");   # Prints 'Yin'
print(ref($foo->{'bar'}), "\n");   # Prints 'Yang'
print(ref($bar),          "\n");   # Also prints 'Yang'

=head1 NOTES

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.

If you want access to threads, you must C<use threads> before you C<use threads::shared>. L<threads> will emit a warning if you use it after L<threads::shared>.

=head1 BUGS AND LIMITATIONS

When C<share> is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99 };  
bless($foo, 'foo');

# Share the object
share($foo);  # Contents are now wiped out
print("ERROR: \$foo is empty\n")
    if (!exists($foo->{'data'}));

Therefore, populate such variables B<after> declaring them as shared. (Scalar
and scalar refs are not affected by this problem.)

It is often not wise to share an object unless the class itself has been
written to support sharing. For example, an object's destructor may get
called multiple times, once for each thread's scope exit. Another danger is
that the contents of hash-based objects will be lost due to the above
mentioned limitation. See F<examples/class.pl> (in the CPAN distribution of
this module) for how to create a class that supports object sharing.

Destructors may not be called on objects if those objects still exist at
global destruction time. If the destructors must be called, make sure
there are no circular references and that nothing is referencing the
objects, before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing
array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not
autovivify the elements, and neither does slicing a shared array/hash over
non-existent indices/keys autovivify the elements.

C<share()> allows you to C<< share($hashref->{key}) >> and
C<< share($arrayref->[idx]) >> without giving any error message. But the
C<< $hashref->{key} >> or C<< $arrayref->[idx] >> is B<not> shared, causing
the error "lock can only be used on shared values" to occur when you attempt
to C<< lock($hashref->{key}) >> or C<< lock($arrayref->[idx]) >> in another
thread.

Using L<refaddr()>|Scalar::Util/"refaddr EXPR") is unreliable for testing
whether or not two shared references are equivalent (e.g., when testing for
circular references). Use L<is_shared()>|/"is_shared VARIABLE">, instead:

    use threads;
    use threads::shared;
    use Scalar::Util qw(refaddr);

    # If ref is shared, use threads::shared's internal ID.
    # Otherwise, use refaddr().
    my $addr1 = is_shared($ref1) || refaddr($ref1);
my $addr2 = is_shared($ref2) || refaddr($ref2);

if ($addr1 == $addr2) {
    # The refs are equivalent
}

L<each()> does not work properly on shared references embedded in shared structures. For example:

my %foo :shared;
$foo{'bar'} = shared_clone({'a'=&gt;'x', 'b'=&gt;'y', 'c'=&gt;'z'});

while (my ($key, $val) = each(%{$foo{'bar'}})) {
    ...
}

Either of the following will work instead:

my $ref = $foo{'bar'};
while (my ($key, $val) = each(%{$ref})) {
    ...
}

foreach my $key (keys(%{$foo{'bar'}})) {
    my $val = $foo{'bar'}{$key};
    ...
}

This module supports dual-valued variables created using L<dualvar()> from Scalar::Util::dualvar NUM, STRING>). However, while C<$!> acts like a dualvar, it is implemented as a tied SV. To propagate its value, use the follow construct, if needed:

my $errno :shared = dualvar($!, $!);

View existing bug reports at, and submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO

L<threads::shared> Discussion Forum on CPAN:
L<http://www.cpanforum.com/dist/threads-shared>

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and
Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jdhedden AT cpan DOT orgE<gt>.

=cut

Found in path(s):
* /opt/cola/permits/1000848935_1646171523.39/0/perl-threads-shared-1.43-6.el7.src.rpm-cosi-expand-archive-
XIsbALc3/threads-shared-1.43.tar.gz-cosi-expand-archive-dZnguN3v/threads-shared-1.43/lib/threads/shared.pm
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl extension for sharing data structures between threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: threads-shared
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  ExtUtils::testlib: 0
  Scalar::Util: 0
  Test: 0
  Test::More: 0
XSLoader: 0
strict: 0
threads: 1.73
warnings: 0
version: 1.43

Found in path(s):
* /opt/cola/permits/1000848935_1646171523.39/0/perl-threads-shared-1.43-6.el7.src.rpm-cosi-expand-archive-
XIsbALc3/threads-shared-1.43.tar.gz-cosi-expand-archive-dZnguN3v/threads-shared-1.43/META.yml
No license file was found, but licenses were detected in source scan.

Copyright 2006 - 2009 Jerry D. Hedden. All rights reserved.
This program is free software; you can redistribute it and/or modify it under
the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1000848935_1646171523.39/0/perl-threads-shared-1.43-6.el7.src.rpm-cosi-expand-archive-
XIsbALc3/threads-shared-1.43.tar.gz-cosi-expand-archive-dZnguN3v/threads-shared-1.43/examples/class.pl
No license file was found, but licenses were detected in source scan.

/*

---------------------------------------------------------------

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc pppport.h' to view the documentation below.

---------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl pppport.h [options] [source files]

Searches current directory for files if no [source files] are given
--help   show short help

--version   show version

--patch=file   write one patch file with changes
--copy=suffix   write changed copies with suffix
--diff=program   use diff program and options

--compat-version=version   provide compatibility with Perl version
--cplusplus   accept C++ comments

--quiet   don't output anything except fatal errors
--nodiag   don't show diagnostics
--nohints   don't show hints
--nochanges   don't suggest changes
--nofilter   don't filter input files

--strip   strip all script and doc functionality from
ppport.h

--list-provided   list provided API
--list-unsupported   list unsupported API
--api-info=name   show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C--patch> or C--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use
perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

  #define NEED_function
  #define NEED_variable

For a global function or variable (used in multiple source files), use:

  #define NEED_function_GLOBAL
  #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C+#define the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/\.

to display information for all known API elements.

=head1 BUGS
If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4
=item 1.
The complete output from running "perl -V"
=item 2.
This file.
=item 3.
The name and version of the module you were trying to build.
=item 4.
A full log of the build that failed.
=item 5.
Any other information that you think could be relevant.
=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval ${'^RE_TRIE_MAXBUF} = -1' if \$] >= 5.009004 && \$] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /\([\w.]+)\$/;

my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = "[ \t\]"; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/'.*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options\n";
}
if ($opt{version}) {
    print "This is $0 $VERSION
";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: $opt{'compat-version'}
";
    }
    die "Only Perl 5 is supported
" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}
" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^\w+\|([^|\]*)([^|\]*)([^|\]*)(\w*)$/
    ? ( $1 => {
        ($2 ? ( base => $2 ) : ()),
        ($3 ? ( todo => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ())
    } )
    : die "invalid spec: $_" } qw(
    AvFILLp|5.004050||p
    AvFILL||
    CLASS||
    CPERLscope|5.005000||p
    CX_CURPAD_SAVE||
    CX_CURPAD_SV||
    CopFILEAV|5.006000||p
    CopFILEGV_set|5.006000||p
    CopFILEGV|5.006000||p
    CopFILESV|5.006000||p
    CopFILE_set|5.006000||p
    CopFILE|5.006000||p
    CopSTASHPV_set|5.006000||p
    CopSTASHPV|5.006000||p
    CopSTASH_eq|5.006000||p
    CopSTASH_set|5.006000||p

Open Source Used In Data Center Network Manager 11.5(1) 31461
IS_NUMBER_INFINITY: 5.007002
IS_NUMBER_IN_UV: 5.007002
IS_NUMBER_NAN: 5.007003
IS_NUMBER_NEG: 5.007002
IS_NUMBER_NOT_INT: 5.007002
IVSIZE: 5.006000
IVTYPE: 5.006000
IVdf: 5.006000
LEAVE:
LVRET:
MARK:
MULTICALL: 5.011000
MY_CXT_CLONE: 5.009002
MY_CXT_INIT: 5.007003
MY_CXT: 5.007003
MoveD: 5.009002
Move:
NOOP: 5.005000
NUM2PTR: 5.006000
NVTYPE: 5.006000
NVef: 5.006001
NVff: 5.006001
NVgf: 5.006001
Newxc: 5.009003
Newxz: 5.009003
Newx: 5.009003
Nullav:
Nullch:
Nullcv:
Nullhv:
Nullsv:
ORIGMARK:
PAD_BASE_SV:
PAD_CLONE_VARS:
PAD_COMPNAME_FLAGS:
PAD_COMPNAME_GEN_set:
PAD_COMPNAME_GEN:
PAD_COMPNAME_OURSTASH:
PAD_COMPNAME_PV:
PAD_COMPNAME_TYPE:
PAD_DUP:
PAD_RESTORE_LOCAL:
PAD_SAVE_LOCAL:
PAD_SAVE_SETNULLPAD:
PAD_SETSV:
PAD_SET_CUR_NOSAVE:
PAD_SET_CUR:
PAD_SV:
PoisonFree|5.009004||p
PoisonNew|5.009004||p
PoisonWith|5.009004||p
Poison|5.008000||p
RETVALSE
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
SAVEPADSV||
SAVETMPS||
SAVE_DEFESV|5.004050||p
SPAGAIN||
SP]
START_EXTERN_C|5.005000||p
START_MY_CTX|5.007003||p
STMT_END||p
STMT_START||p
STR_WITH_LEN|5.009003||p
ST||
SV_CONST_RETURN|5.009003||p
SV_COW_DROP_PV|5.008001||p
SV_COW_SHARED_HASH_KEYS|5.009005||p
SV_GMAGIC|5.007002||p
SV_HAS_TRAILING_NUL|5.009004||p
SV_IMMEDIATE_UNREF|5.007001||p
SV_MUTABLE_RETURN|5.009003||p
SV_NOSTEAL|5.009002||p
SV_SMAGIC|5.009003||p
SV_UTF8_NO_ENCODING|5.008001||p
SVfARG|5.009005||p
SVf_UTF8|5.006000||p
SVf|5.006000||p
SV_IV||
SVt_NV||
SVt_PVAV||
SVt_PVAV||
SVt_PVHV||
SVt_PVMG||
SVt_PV||
Safefree||
Slab_Alloc||
Slab_Free||
Slab_to_rw||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvSETMAGIC||
SvSHARED_HASH[5.009003]|p
SvSHARE[5.007003]
SvSTASH_set[5.009003]|p
SvSTASH||
SvSetMagicSV_nosteal[5.004000]
SvSetMagicSV[5.004000]
SvSetSV_nosteal[5.004000]
SvSetSV||
SvTAINTED_off[5.004000]
SvTAINTED_on[5.004000]
SvTAINTED[5.004000]
SvTAINT||
SvTRUE||
SvTYPE||
SvUNLOCK[5.007003]
SvUOK[5.007001]5.006000|p
SvUPGRADE||
SvUTF8_off[5.006000]
SvUTF8_on[5.006000]
SvUTF8[5.006000]
SvUVXx[5.004000]|p
SvUVX[5.004000]|p
SvUV_nomg[5.009001]|p
SvUV_set[5.009003]|p
SvUVx[5.004000]|p
SvUV[5.004000]|p
SvVOK[5.008001]
SvVSTRING_mg[5.009004]|p
THIS||n
UNDERBAR[5.009002]|p
UTF8_MAXBYTES[5.009002]|p
UVSIZE[5.006000]|p
UVTYPE[5.006000]|p
UVXf[5.007001]|p
UVof[5.006000]|p
UVuf[5.006000]|p
UVxf[5.006000]|p
WARN_ALL[5.006000]|p
WARN_AMBIGUOUS[5.006000]|p
WARN_ASSERTIONS[5.011000]|p
WARN_BAREWORD[5.006000]|p
WARN_CLOSED[5.006000]|p
WARN_CLOSURE[5.006000]|p
WARN_DEBUGGING[5.006000]|p
WARN_DEPRECATED[5.006000]|p
WARN_DIGIT[5.006000]|p
WARN_EXEC[5.006000]|p
WARN_EXITING|5.006000||p
WARN_GLOB|5.006000||p
WARN_INPLACE|5.006000||p
WARN_INTERNAL|5.006000||p
WARN_IO|5.006000||p
WARN_LAYER|5.008000||p
WARN_MALLOC|5.006000||p
WARN_MISC|5.006000||p
WARN_NEWLINE|5.006000||p
WARN_NUMERIC|5.006000||p
WARN_ONCE|5.006000||p
WARN_OVERFLOW|5.006000||p
WARN_PACK|5.006000||p
WARN_PARENTHESIS|5.006000||p
WARN_PIPE|5.006000||p
WARN_PORTABLE|5.006000||p
WARN_PRECEDENCE|5.006000||p
WARN_PRINTF|5.006000||p
WARN_RESERVED|5.006000||p
WARN_SCANNER|5.006000||p
WARN_UNDEFINED|5.006000||p
WARN_UNINITIALIZED|5.006000||p
WARN_UNOPENED|5.006000||p
WARN_UNPACK|5.006000||p
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);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n

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next unless $f =~ /$match/;
print "\n=== $f ===\n\n";
my $info = 0;
if ($API{$f}{base} || $API{$f}{todo}) {
  my $base = format_version($API{$f}{base} || $API{$f}{todo});
  print "Supported at least starting from perl-$base.\n";
  $info++;
}
if ($API{$f}{provided}) {
  my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
  print "Support by $ppport provided back to perl-$todo.\n";
  print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
  print "Depends on: ", join(', ', @{$depends{$f}}), ",\n" if exists $depends{$f};
  print "\nShints{$f}" if exists $shints{$f};
  print "\n\nWARNING:\n\nWarnings{$f}" if exists $warnings{$f};
  $info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.\n";
print "\n";
exit 0;
}

if (exists $opt{'list-provided'}) {
my $f;
for $f (sort {lc $a cmp lc $b} keys %API) {
  next unless $API{$f}{provided};
  my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend'   if exists $depends{$f};
push @flags, 'hint'     if exists $shints{$f};
push @flags, 'warning'  if exists $warnings{$f};
my $flags = @flags ? ' [' . join(', ', @flags) . ']' : "";
  print "$f$flags\n";
}
exit 0;
}

my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc);
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {

}
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";

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next;
}

info("Scanning $filename ...");

my $c = do { local $/; <IN> }
close IN;

my %file = (orig => $c, changes => 0);

# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
  (^\HS*\#\HS*include\b[^\r\n\n]+\b(?:\QSppport\E[XSUB\h\b[^\r\n\n]*)
  | ^\HS*\#\HS*(:define|elif|if(?:def)?)\b[^\r\n\n]*)
  | (^\HS*[^\r\n]*)
  | \S[-]\^[^*]*\^[\r\n]*"*
  | \S[-]\^[^*]*\^[\r\n]*"
  | / (?::[^*]*[^*]+(?::[^\r\n]*)\^[\r\n]*)
  | / (?::[^*]+\^[\r\n]*)
}| defined $2 and push @ccom, $2;

my $func;
for $func (keys %API) {
  my $match = $func;
  $match .= "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /Ab(:Perl)\T{($match)}\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /AbPerl\$_\b/;
  } elsif (exists $API{$func}{provided}) {
    $file{uses_provided}{$func}++;
    if (!exists $API{$func}{base} && $API{$func}{base} > Sotp('compat-version')) {
      $file{uses}{$func}++;
      my @deps = rec_depend($func);
      if (@deps) {
        $file{uses_deps}{$func} = \@deps;
        for (@deps) {
          $file{uses}{'$_'} = 0 unless exists $file{uses}{'$_'};
        }
      }
      for ($func, @deps) {
        $file{needs}{'$_'} = 'static' if exists $need{$_};
      }
    }
  }
}

$file{ccom} = \@ccom;
$func{code} = $c;
$func{has_inc_ppport} = $c =~ /\Q$ppport\E/;
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");

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my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
    if ($API[$func] {varargs}) {
        unless ($API[$func] {nothxarg}) {
            my $changes = ($c =~ s{\bPerl_$func\$*$*(?!aTHX_?)(?!aTHX_(.+$)\$*)]][([,]*\$*)]}{ $1 . ($2 eq ')? 'aTHX' : 'aTHX_'. $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
    } else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func\$**(?!aTHX_?)(?!aTHX_(.+$)\$*)]}{ $1 . ($2 eq ')? 'aTHX' : 'aTHX_'. $2 }ge);
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s{\b$func\$**(?!aTHX_?)(?!aTHX_(.+$)\$*)]}{ $1 . ($2 eq ')? 'aTHX' : 'aTHX_'. $2 }ge);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on "; join(', ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    } else {
        diag("Uses $func");
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ", format_version($API[$func] {todo}), ", even with "'$ppport'un";
        $warnings++;}
for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$func_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_$func_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_$func_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}[$func]) {
            if ($type eq 'global') {
                diag("Files [@ {$global{needs}{$func}}] need $func, adding global request");
            } else {
                my $message = "No need to define NEED_$func when already needed globally";
                if ($message) {
                    diag($message);
                    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
                }
diag("File needs $func, adding static request");
}
$pp .= 
#define NEED_$func$suffix
;
}
}
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
$pp = 
$file{changes}++;
}

unless ($file{has_inc_ppport}) {
diag("Needs to include '$ppport'");
$pp := qq(include "$ppport"
)
}
if ($pp) {
$file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
|| ($c =~ s/^($HS*#$HS*include.*\Q$ppport\E)/$pp/m)
|| ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
|| ($c =~ s/^/$pp/);
}
else {
if ($file{has_inc_ppport}) {
diag("No need to include '$ppport'");
$file{changes} += ($c =~ s/^\Q$ppport\E.*?$LF//m);
}
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
$cppc++;
$file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
}
else {
$c = s/$rccs$ix$rcce/$ccom[$ix]/;
}
}
if ($cppc) {
my $s = $cppc != 1 ? 's' : ';
warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : '';  
my $warn = $warnings ? " ($warnings warning$s)" : '';  
info("Analysis completed$warn");

if ($file{changes}) {  
  if (exists $opt{copy}) {  
    my $newfile = "$filename$opt{copy}";  
    if (-e $newfile) {  
      error("$newfile' already exists, refusing to write copy of '$filename'");  
    }  
    else {  
      local *F;  
      if (open F, ">$newfile") {  
        info("Writing copy of '$filename' with changes to '$newfile'");  
        print F $c;  
        close F;  
      }  
      else {  
        error("Cannot open '$newfile' for writing: $!'");  
      }  
    }  
  }  
  elsif (exists $opt{patch} || $opt{changes}) {  
    if (exists $opt{patch}) {  
      unless ($patch_opened) {  
        if (open PATCH, ">$opt{patch}") {  
          $patch_opened = 1;  
        }  
      }  
      else {  
        error("Cannot open '$opt{patch}' for writing: $!");  
        delete $opt{patch};  
        $opt{changes} = 1;  
        goto fallback;  
      }  
      mydiff(*PATCH, $filename, $c);  
    }  
    else {  
      fallback:  
      info("Suggested changes:");  
      mydiff(*STDOUT, $filename, $c);  
    }  
  }  
  else {  
    my $s = $file{changes} == 1 ? '' : 's';  
    info("$file{changes} potentially required change$s detected");  
  }
else {
  info("Looks good");
}

close PATCH if $patch_opened;

exit 0;

sub try_use {
  eval "use @_\; return @\ eq "
}

sub mydiff {
  local *F = shift;
  my($file, $str) = @_; 
  my $diff;

  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }

  if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = "--- $file
+++ $file.patched
HEADER
--- $file
+++ $file.patched
HEA

  }

  if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
  }

  if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
  }

  if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
  }

  print F $diff;
}

sub run_diff
my($prog, $file, $str) = @_;  
my $tmp = 'dppptemp';  
my $suf = 'aaa';  
my $diff = '';  
local *F;

while (-e "$tmp.$suf") { $suf++ }  
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {  
    print F $str;  
close F;

    if (open F, "$prog $file $tmp |") {  
        while (<F>) {  
            s/\Q$tmp\E/$file.patched/;  
            $diff .= $_;  
        }  
close F;  
        unlink $tmp;  
        return $diff;  
    }

    unlink $tmp;  
}  
else {  
    error("Cannot open '$tmp' for writing: $!");  
}

return undef;
}

sub rec_depend  
{
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};  
    $seen = {%{$seen||{}}};  
    return () if $seen->{$func}++;  
    my %s;  
grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};  
}

sub parse_version  
{
    my $ver = shift;

    if ($ver =~ /^\d+\.\d+\.\d+$/) {  

    return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\.[\d_]+$/) {
    die "cannot parse version '$ver'
";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\d+/.(\d{3})/(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version '$ver'
";
    }
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+/.(\d{3})/(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'
";
        }
        $s /= 10;

        $ver = sprintf "%.03d", $r, $v;
        $s > 0 and $ver .= sprintf "_.%02d", $s;

        return $ver;
    }

    return sprintf "%.0d%.0d", $r, $v, $s;
}
sub info  
{  
$opt{quiet} and return;  
print @_, "$\n";  
}  

sub diag  
{  
$opt{quiet} and return;  
$opt{diag} and print @_, "$\n";  
}  

sub warning  
{  
$opt{quiet} and return;  
print "*** \n", @_, "$\n";  
}  

sub error  
{  
print "*** ERROR: \n", @_, "$\n";  
}  

my %given_hints;  
my %given_warnings;  
sub hint  
{  
$opt{quiet} and return;  
my $func = shift;  
my $rv = 0;  
if (exists $warnings{$func} && !given_warnings{$func}++) {  
  my $warn = $warnings{$func};  
  $warn =~ s!^!*** !mg;  
  print "*** WARNING: $func\n", $warn;  
  $rv++;  
}  
if ($opt{hints} && exists $hints{$func} && !given_hints{$func}++) {  
  my $hint = $hints{$func};  
  $hint =~ s/^/   /mg;  
  print "   --- hint for $func ---\n", $hint;  
}  
$rv;  
}  

sub usage  
{  
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*)\s*$//ms;  
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<[^>]+>/SM\1$usage/g;

print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;
}

sub strip
{
  my $self = do { local(@ARGV,$/)=($0); <> };
  my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*)^=\w+/ms;
  $copy =~ s/^(?=%)/    /gms;
  $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
  $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (!@ARGV && !$ARGV[0] eq '--unstrip') {
  eval { require Devel::PPPort };
  @$@ and die " Cannot require Devel::PPPort, please install.\n"
  if (eval $Devel::PPPort::VERSION < $VERSION) {
    die "$0 was originally generated with Devel::PPPort $VERSION.\n"
    . "Your Devel::PPPort is only version $Devel::PPPort::VERSION.\n"
    . "Please install a newer version, or --unstrip will not work.\n"
  }
  Devel::PPPort::WriteFile($0);
  exit 0;
}
print <<END;

Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

$^X $0 --unstrip

END

/ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
  / (?:\^\[^\[\]\]*\[^\]\]+(?:[^\]^\]text|\^[^\]*\^[^\]\]+\[^\]\]+)* / | ![^\^[^\]text|[^\]\]+\[^\]\]+\[^\]\]+* )
  | ![^\]*\[^\]\]+\[^\]\]+\[^\]\]+ )
}
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sources-jar/org/wildfly/security/password/impl/MaskedPasswordAlgorithmParametersSpiImpl.java
* /opt/ws_local/PERMITS_SQL/1091709481_1600572342.97/0/wildfly-elytron-password-impl-1-11-2-final-
sources-jar/org/wildfly/security/password/impl/IteratedPasswordAlgorithmParametersSpiImpl.java
* /opt/ws_local/PERMITS_SQL/1091709481_1600572342.97/0/wildfly-elytron-password-impl-1-11-2-final-
sources-jar/org/wildfly/security/password/impl/IteratedSaltedPasswordAlgorithmParametersSpiImpl.java
* /opt/ws_local/PERMITS_SQL/1091709481_1600572342.97/0/wildfly-elytron-password-impl-1-11-2-final-
sources-jar/org/wildfly/security/password/impl/OneTimePasswordAlgorithmParametersSpiImpl.java
* /opt/ws_local/PERMITS_SQL/1091709481_1600572342.97/0/wildfly-elytron-password-impl-1-11-2-final-
sources-jar/org/wildfly/security/password/impl/DigestPasswordAlgorithmParametersSpiImpl.java
* /opt/ws_local/PERMITS_SQL/1091709481_1600572342.97/0/wildfly-elytron-password-impl-1-11-2-final-
sources-jar/org/wildfly/security/password/impl/MaskedPasswordImpl.java
* /opt/ws_local/PERMITS_SQL/1091709481_1600572342.97/0/wildfly-elytron-password-impl-1-11-2-final-
sources-jar/org/wildfly/security/password/impl/DigestUtil.java

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/ * /opt/cola/permits/1110676916_1606844031.03/0/netty-buffer-4-1-39-final-sources-1-jar/io.netty.buffer/UnpooledUnsafeDirectByteBuf.java
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/ * /opt/cola/permits/1110676916_1606844031.03/0/netty-buffer-4-1-39-final-sources-1-jar/io.netty.buffer/ReadOnlyUnpooledByteBuf.java
/ * /opt/cola/permits/1110676916_1606844031.03/0/netty-buffer-4-1-39-final-sources-1-jar/io.netty.buffer/ReadOnlyUnpooledUnsafeDirectByteBuf.java

1.2747 commons-vfs 1.0

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1.2748 tomcat-embed-el 9.0.29

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Finding in path(s):
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* /opt/ws_local/PERMITS_SQL/1068290198_1594349839.03/0/spring-boot-autoconfigure-2-2-2-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisNoOpBindingRegistry.java


* /opt/ws_local/PERMITS_SQL/1068290198_1594349839.03/0/spring-boot-autoconfigure-2-2-2-release-sources-1-jar/org/springframework/boot/autoconfigure/web/reactive/error/ErrorWebFluxAutoConfiguration.java

1.2750 python-ldap 2.4.15-2.el7

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$Id: LICENCE,v 1.1 2002/09/18 18:51:22 stroeder Exp $

1.2751 coreutils 8.22 24.el7

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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */

#include <stdio.h>
#include <sys/types.h>
#include <pwd.h>
#include <grp.h>

#define FTSENT_IS_DIRECTORY(E)
	(E)->fts_info == FTS_D
	|| (E)->fts_info == FTS_DC
	|| (E)->fts_info == FTS_DP
	|| (E)->fts_info == FTS_DNR)

enum RCH_status
{
    /* we called fchown and close, and both succeeded */
    RC_ok = 2,

    /* required_uid and/or required_gid are specified, but don't match */
    RC_excluded,
/* SAME_INODE check failed */
RC_inode_changed,

/* open/fchown isn't needed, isn't safe, or doesn't work due to
permissions problems; fall back on chown */
RC_do_ordinary_chown,

/* open, fstat, fchown, or close failed */
RC_error

extern void
chopt_init (struct Chown_option *chopt)
{
  chopt->verbosity = V_off;
  chopt->root_dev_ino = NULL;
  chopt->affect_symlink_referent = true;
  chopt->recurse = false;
  chopt->force_silent = false;
  chopt->user_name = NULL;
  chopt->group_name = NULL;
}

extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
  /* Deliberately do not free chopt->user_name or ->group_name.
     They're not always allocated. */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc'd memory,
and return it. If there's no corresponding group name, use the decimal
representation of the ID. */

extern char *
gid_to_name (gid_t gid)
{
  char buf[INT_BUFSIZE_BOUND (intmax_t)];
  struct group *grp = getgrgid (gid);
  return xstrdup (grp ? grp->gr_name
                      : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
                      : umaxtostr (gid, buf));
}

/* Convert the numeric user-id, UID, to a string stored in xmalloc'd memory,
and return it. If there's no corresponding user name, use the decimal
representation of the ID. */
extern char *
uid_to_name (uid_t uid)
{
char buf[INT_BUFSIZE_BOUND (intmax_t)];
struct passwd *pwd = getpwuid (uid);
return xstrdup (pwd ? pwd->pw_name
: TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
: umaxtostr (uid, buf));
}
/* Allocate a string representing USER and GROUP. */
static char *
user_group_str (char const *user, char const *group)
{
char *spec = NULL;
if (user)
{
if (group)
{
spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
}
else
{
spec = xstrdup (user);
}
}
else if (group)
{
spec = xstrdup (group);
}
return spec;
}
/* Tell the user how/if the user and group of FILE have been changed.
If USER is NULL, give the group-oriented messages.
CHANGED describes what (if anything) has happened. */
static void
describe_change (const char *file, enum Change_status changed,
char const *old_user, char const *old_group,
char const *user, char const *group)
{
const char *fmt;

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char *old_spec;
char *spec;

if (changed == CH_NOT_APPLIED)
{
    printf (_("neither symbolic link %s nor referent has been changed\n"),
            quote (file));
    return;
}

spec = user_group_str (user, group);
old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

switch (changed)
{
    case CH_SUCCEEDED:
        fmt = (user ? _("changed ownership of %s from %s to %s\n")
            : group ? _("changed group of %s from %s to %s\n")
            : _("no change to ownership of %s\n"));
        break;
    case CH_FAILED:
        if (old_spec)
        {
            fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
                : group ? _("failed to change group of %s from %s to %s\n")
                : _("failed to change ownership of %s\n"));
            free (old_spec);
            old_spec = spec;
            spec = NULL;
        }
        break;
    case CH_NO_CHANGE_REQUESTED:
        fmt = (user ? _("ownership of %s retained as %s\n")
            : group ? _("group of %s retained as %s\n")
            : _("ownership of %s retained\n"));
        break;
    default:
        abort ();
}

printf (fmt, quote (file), old_spec, spec);
free (old_spec);
free (spec);
}

/* Change the owner and/or group of the FILE to UID and/or GID (safely)
only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
of FILE. ORIG_ST must be the result of 'stat'ing FILE.

The 'safely' part above means that we can't simply use chown(2),
since FILE might be replaced with some other file between the time
of the preceding stat/lstat and this chown call. So here we open
FILE and do everything else via the resulting file descriptor.
We first call fstat and verify that the dev/inode match those from
the preceding stat call, and only then, if appropriate (given the
required_uid and required_gid constraints) do we call fchown.

Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a
special file that might have undesirable side effects when opening.
In this case the caller can use the less-safe ordinary chown.

Return one of the RCH_status values. */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
struct stat const *orig_st,
uid_t uid, gid_t gid,
uid_t required_uid, gid_t required_gid)
{
enum RCH_status status = RC_ok;
struct stat st;
int open_flags = O_NONBLOCK | O_NOCTTY;
int fd;

if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
    return RC_do_ordinary_chown;

if (! S_ISREG (orig_st->st_mode))
    {
    if (S_ISDIR (orig_st->st_mode))
        open_flags |= O_DIRECTORY;
    else
        return RC_do_ordinary_chown;
    }

fd = openat (cwd_fd, file, O_RDONLY | open_flags);
if (! (0 <= fd
    || (errno == EACCES && S_ISREG (orig_st->st_mode)
    && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags))))))
return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

if (fstat (fd, &st) != 0)
    status = RC_error;
else if (!SAME_INODE (*orig_st, st))
    status = RC_inode_changed;
else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)
    && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
{
    if (fchown (fd, uid, gid) == 0)
    {
        status = (close (fd) == 0
            ? RC_ok : RC_error);
        return status;
    }
    else
    {
        status = RC_error;
    }
}

int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;

/* Change the owner and/or group of the file specified by FTS and ENT
 to UID and/or GID as appropriate.
 If REQUIRED_UID is not -1, then skip files with any other user ID.
 If REQUIRED_GID is not -1, then skip files with any other group ID.
 CHOPT specifies additional options.
 Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid,
    struct Chown_option const *chopt)
{
    char const *file_full_name = ent->fts_path;
    char const *file = ent->fts_accpath;
    struct stat const *file_stats;
    struct stat stat_buf;
    bool ok = true;
    bool do_chown;
    bool symlink_changed = true;

    switch (ent->fts_info)
{ 
    case FTS_D:
    if (chopt->recurse)
    {
        if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
        {
            /* This happens e.g., with "chown -R --preserve-root 0 /"
             and with "chown -RH --preserve-root 0 symlink-to-root". */
            ROOT_DEV_INO_WARN (file_full_name);
            /* Tell fts not to traverse into this hierarchy. */
            fts_set (fts, ent, FTS_SKIP);
            /* Ensure that we do not process "/" on the second visit. */
            ignore_value (fts_read (fts));
            return false;
        }
        return true;
    }
    break;
}

case FTS_DP:
    if (! chopt->recurse)
    {
        return true;
    }
    break;

case FTS_NS:
    /* For a top-level file or directory, this FTS_NS (stat failed)
    indicator is determined at the time of the initial fts_open call.
    With programs like chmod, chown, and chgrp, that modify
    permissions, it is possible that the file in question is
    accessible when control reaches this point. So, if this is
    the first time we've seen the FTS_NS for this file, tell
    fts_read to stat it "again". */
    if (ent->fts_level == 0 && ent->fts_number == 0)
    {
        ent->fts_number = 1;
        fts_set (fts, ent, FTS_AGAIN);
        return true;
    }
    if (! chopt->force_silent)
    {
        error (0, ent->fts_errno, "cannot access %s"),
        quote (file_full_name));
        ok = false;
    }
    break;

case FTS_ERR:
    if (! chopt->force_silent)
    {
        error (0, ent->fts_errno, "%s", quote (file_full_name));
        ok = false;
    }
}
break;

case FTS_DNR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot read directory %s"),
            quote (file_full_name));
    ok = false;
    break;

case FTS_DC:// directory that causes cycles */
    if (cycle_warning_required (fts, ent))
    {
        emit_cycle_warning (file_full_name);
        return false;
    }
    break;

default:
    break;
}

if (!ok)
{
    do_chown = false;
    file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1
    && chopt->verbosity == V_off
    && ! chopt->root_dev_ino
    && ! chopt->affect_symlink_referent)
{
    do_chown = true;
    file_stats = ent->fts_statp;
}
else
{
    file_stats = ent->fts_statp;

    /* If this is a symlink and we're dereferencing them,
    stat it to get info on the referent. */
    if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
    {
        if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
        {
            if (! chopt->force_silent)
                error (0, errno, _("cannot dereference %s"),
                    quote (file_full_name));
            ok = false;
        }
file_stats = &stat_buf;
}

do_chown = (ok && (required_uid == (uid_t) -1 || required_uid == file_stats->st_uid) && (required_gid == (gid_t) -1 || required_gid == file_stats->st_gid));

/* This happens when chown -LR --preserve-root encounters a symlink-to/. */
if (ok && FTSENT_IS_DIRECTORY (ent) && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats)) {
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
}

if (do_chown)
{
    if ( ! chopt->affect_symlink_referent)
    {
        ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);
        /* Ignore any error due to lack of support; POSIX requires this behavior for top-level symbolic links with -h, and implies that it's required for all symbolic links. */
        if (!ok && errno == EOPNOTSUPP)
        {
            ok = true;
            symlink_changed = false;
        }
    }
    else
    {
        /* If possible, avoid a race condition with --from=O:G and without the (-h) --no-dereference option. If fts's stat call determined that the uid/gid of FILE matched the --from=O:G-selected owner and group IDs, blindly using chown(2) here could lead chown(1) or chgrp(1) mistakenly to dereference a *symlink* to an arbitrary file that an attacker had moved into the place of FILE during the window between the stat and chown(2) calls. If FILE is a regular file or a directory that can be opened, this race condition can be avoided safely. */
    }
enum RCH_status err
    = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
                        required_uid, required_gid);

switch (err)
{
    case RC_OK:
        break;

    case RC_DO_ORDINARY_CHOWN:
        ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
        break;

    case RC_ERROR:
        ok = false;
        break;

    case RC_INODE_CHANGED:
        /* FIXME: give a diagnostic in this case? */
        case RC_EXCLUDED:
            do_chown = false;
            ok = false;
            break;

    default:
        abort ()
        }
    }

    /* On some systems (e.g., GNU/Linux 2.4.x),
     the chown function resets the 'special' permission bits.
     Do *not* restore those bits; doing so would open a window in
     which a malicious user, M, could subvert a chown command run
     by some other user and operating on files in a directory
     where M has write access. */

    if (do_chown && !ok && ! chopt->force_silent)
        error (0, errno, (uid != (uid_t) -1
                        ? _("changing ownership of %s")
                        : _("changing group of %s")),
                        quote (file_full_name));

    if (chopt->verbosity != V_OFF)
    {
        bool changed =
            ((do_chown && ok && symlink_changed)
             && !(uid == (uid_t) -1 || uid == file_stats->st_uid)
             && (gid == (gid_t) -1 || gid == file_stats->st_gid)));
if (changed || chopt->verbosity == V_high)
{
    enum Change_status ch_status =
        (!ok ? CH_FAILED
            : !symlink_changed ? CH_NOT_APPLIED
            : !changed ? CH_NO_CHANGE_REQUESTED
            : CH_SUCCEEDED);
    char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
    char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
    describe_change (file_full_name, ch_status,
        old_usr, old_grp,
        chopt->user_name, chopt->group_name);
    free (old_usr);
    free (old_grp);
}
}

if ( ! chopt->recurse)
    fts_set (fts, ent, FTS_SKIP);

return ok;
}

/* Change the owner and/or group of the specified FILES.
   BIT_FLAGS specifies how to treat each symlink-to-directory
   that is encountered during a recursive traversal.
   CHOPT specifies additional options.
   If UID is not -1, then change the owner id of each file to UID.
   If GID is not -1, then change the group id of each file to GID.
   If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only
   files with user ID and group ID that match the non-(-1) value(s).
   Return true if successful. */
extern bool
chown_files (char **files, int bit_flags,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid,
    struct Chown_option const *chopt)
{
    bool ok = true;

    /* Use lstat and stat only if they're needed. */
    int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1
        || chopt->affect_symlink_referent
        || chopt->verbosity != V_off)
        ? 0
        : FTS_NOSTAT);
FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);

while (1)
{
    FTSENT *ent;

    ent = fts_read (fts);
    if (ent == NULL)
    {
        if (errno != 0)
        {
            /* FIXME: try to give a better message */
            if (! chopt->force_silent)
                error (0, errno, _("fts_read failed"));
            ok = false;
        }
        break;
    }

    ok &= change_file_owner (fts, ent, uid, gid,
                            required_uid, required_gid, chopt);
}

if (fts_close (fts) != 0)
{
    error (0, errno, _("fts_close failed"));
    ok = false;
}

return ok;

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1.2752 plexus-classworlds 1.1-alpha-2
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* /opt/cola/permits/100466087_1646171704.03/0/byte-buddy-1-9-16-sources-jar/net/bytebuddy/matcher/package-info.java
* /opt/cola/permits/100466087_1646171704.03/0/byte-buddy-1-9-16-sources-jar/net/bytebuddy/matcher/package-info.java
No license file was found, but licenses were detected in source scan.
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Found in path(s):
* /opt/cola/permits/1004666087_1646171704.03/0/byte-buddy-1-9-16-sources-jar/net/bytebuddy/jar/asm/signature/package.html
* /opt/cola/permits/1004666087_1646171704.03/0/byte-buddy-1-9-16-sources-jar/net/bytebuddy/jar/asm/package.html

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Manifest-Version: 1.0
Bundle-Description: Byte Buddy is a Java library for creating Java classes at run time. This artifact is a build of Byte Buddy with all ASM dependencies repackaged into its own name space.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: net.bytebuddy.byte-buddy
Built-By: rafael
Bnd-LastModified: 1564227094573
Bundle-ManifestVersion: 2
Tool: Bnd-3.5.0.201709291849
Main-Class: net.bytebuddy.build.Plugin$Engine$Default
Export-Package: net.bytebuddy;version="1.9.16",net.bytebuddy.agent.builder;version="1.9.16",net.bytebuddy.asm;version="1.9.16",net.bytebuddy.build;version="1.9.16",net.bytebuddy.description;version="1.9.16",n
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Bundle-Name: Byte Buddy (without dependencies)
Bundle-Version: 1.9.16
Multi-Release: true
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_201

Found in path(s):
* /opt/cola/permits/1004666087_1646171704.03/0/byte-buddy-1-9-16-sources-jar/META-INF/MANIFEST.MF

1.2755 python 2.7.5 88.el7

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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  jar/io/netty/handler/codec/DefaultHeadersImpl.java
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Set the [code TCP_MD5SIG] option on the socket. See [code linux/tcp.h] for more details. Keys can only be set on, not read to prevent a potential leak, as they are confidential. Allowing them being read would mean anyone with access to the channel could get them.

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  jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsRawRecord.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/channel/pool/package-info.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/channel/pool/PooledUnsafeHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/channel/unix/EpollDomainSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/util/concurrent/ThreadProperties.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/channel/unix/Socket.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/buffer/PoolArenaMetric.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/dns/DnsRecordType.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/channel/unix/UnixChannel.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/example/http2/tiles/Launcher.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/example/http2/tiles/Http2RequestHandler.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
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*/
/**
 * A decoder that splits the received @link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 * <p>
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 * <p>
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 * <pre>
 * |lengthFieldOffset| = 0
 * |lengthFieldLength| = 2
 * |lengthAdjustment| = 0
 * |initialBytesToStrip| = 0 (= do not strip header)
 * </pre>
 * <p>
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +--------+----------------+----->+--------+----------------+
 * | Length | Actual Content |      | Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
 * +--------+----------------+----->+--------+----------------+
 * </pre>
 * <p>
 * <h3>2 bytes length field at offset 0, strip header</h3>
 * <p>
 * Because we can get the length of the content by calling
 * {@link ByteBuf#readableBytes()}, you might want to strip the length
 * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
 * specified <tt>2</tt>, that is same with the length of the length field, to
 * strip the first two bytes.
 * <pre>
 * |lengthFieldOffset| = 0
 * |lengthFieldLength| = 2
 * |lengthAdjustment| = 0
 * |initialBytesToStrip| = 2 (= the length of the Length field)
 * </pre>
 * <p>
 * BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
 * +--------+----------------+----->+----------------+
 * | Length | Actual Content |      | Actual Content |
 * | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
 * +--------+----------------+----->+----------------+
2 bytes length field at offset 0, do not strip header, the length field represents the length of the whole message.

In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero lengthAdjustment. Because the length value in this example message is always greater than the body length by 2, we specify lengthAdjustment = -2 for compensation.

```
lengthFieldOffset   =  0
lengthFieldLength   =  2
lengthAdjustment    =  -2  (= the length of the Length field)
initialBytesToStrip =  0
```

```
BEFORE DECODE (14 bytes)             AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
```

3 bytes length field at the end of 5 bytes header, do not strip header.

The following message is a simple variation of the first example. An extra header value is prepended to the message. lengthAdjustment is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

```
lengthFieldOffset   =  2  (= the length of Header 1)
lengthFieldLength   =  3
lengthAdjustment    =  0
initialBytesToStrip =  0
```

```
BEFORE DECODE (17 bytes)             AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
| 0xCAFE   | 0x00000C | "HELLO, WORLD" |      | 0xCAFE   | 0x00000C | "HELLO, WORLD" |
```

3 bytes length field at the beginning of 5 bytes header, do not strip header.

This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
*  
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*  
* BEFORE DECODE (17 bytes)                     AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Length  | Header 1 | Actual Content |----->| Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE   | "HELLO, WORLD" |      | 0x00000C | 0xCAFE   | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*  
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*  
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
*  
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*  
* BEFORE DECODE (16 bytes)                     AFTER DECODE (13 bytes)
* +--------+--------+----------------+      +--------+----------------+
* | HDR1   | Length  | HDR2  | Actual Content |----->| HDR2   | Actual Content |
* | 0xCA   | 0x000C  | 0xFE  | "HELLO, WORLD" |      | 0xFE   | "HELLO, WORLD" |
* +--------+--------+----------------+      +--------+----------------+
* </pre>
*  
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*  
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
because the length field already includes the whole header length.

* lengthFieldOffset = 1
* lengthFieldLength = 2
* lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
+--------+--------+--------+----------------+----->+--------+----------------+
| HDR1 | Length | HDR2 | Actual Content |  | HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |  | 0xFE | "HELLO, WORLD" |
+--------+--------+--------+----------------+----->+--------+----------------+

@see LengthFieldPrepender

*/

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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /*
**
* Utility class for { @link ByteBuf } that encodes and decodes to and from
* @a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
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 * Adaptation of http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
  jar/io/netty/handler/codec/compression/ZlibDecoder.java
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jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/example/udt/echo/bytes/package-info.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/channel/udt/DefaultUdtChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/example/http/cors/HttpCorsServer.java
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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/channel/sctp/oio/OioSctpServerChannel.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/channel/MultithreadEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/example/udt/echo/rendezvous/package-info.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/CorruptedFrameException.java
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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/example/worldclock/WorldClockClientInitializer.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1.jar/io/netty/channel/oio/AbstractOioByteChannel.java
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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
jar/io/netty/handler/codec/haproxy/HAProxyMessage.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java

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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/resolver/dns/package-info.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/util/ThreadDeathWatcher.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/xml/XmlNamespace.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/example/http/websocketx/client/WebSocketClient.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/mqtt/MqttSubAckMessage.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/ssl/PemReader.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/ssl/ThreadLocalInsecureRandom.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/util/concurrent/PromiseAggregator.java

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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/example/websocketx/benchmarks/server/package-info.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/mqtt/MqttPublishMessage.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/mqtt/MqttEncoder.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/http/HttpStatusClass.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/codec/xml/XmlSpace.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/ssl/SniHandler.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/example/http2/helloworld/server/HelloWorldHttp1Handler.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1-jar/io/netty/util/Mapping.java
 Jar
 * /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/o/netty-all-4-1-24-final-sources-1-
 * /jar/io/netty/handler/codec/AsciiHeadersEncoder.java
 * /jar/io/netty/handler/codec/mqtt/MqttSubscribePayload.java
 * /jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
 * /jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
 * /jar/io/netty/example/http2/helloworld/server/Http2ServerInitializer.java
 * /jar/io/netty/handler/ssl/OpenSslSessionContext.java
 * /jar/io/netty/channel/unix/UnixChannelOption.java
 * /jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
 * /jar/io/netty/handler/codec/compression/Bzip2BitReader.java
 * /jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java

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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4.1.24-final-sources-1-jar/io/netty/util/internal/logging/FormattingTuple.java

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 */

/**
 * Set the TCP_MD5SIG option on the socket. See \texttt{linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the TCP_QUICKACK option on the socket. See \url{http://linux.die.net/man/7/tcp}\texttt{TCP QUICKACK} for more details.
 */

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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its { @link ChannelPipeline}. 
* 
*  * Sub-types</h3>
*  * { @link ChannelInboundHandler} itself does not provide many methods, but you usually have to implement one of its
*  * subtypes:
*  * <ul>
*  * <li> { @link ChannelInboundHandler} to handle inbound I/O events, and</li>
*  * </ul>
*  * </p>
*  * <p>
*  * Alternatively, the following adapter classes are provided for your convenience:
*  * <ul>
*  * <li> { @link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
*  * </ul>
*  * </p>
*  * <p>
*  * For more information, please refer to the documentation of each subtype.
*  * </p>
*
* <h3>The context object</h3>
* 
* A { @link ChannelHandlerContext} is provided with a { @link ChannelHandlerContext} object. A { @link ChannelHandlerContext} is supposed to interact with the
* { @link ChannelPipeline} it belongs to via a context object. Using the
* context object, the { @link ChannelHandlerContext} can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using { @link AttributeKey}s) which is specific to the handler.
* 
* <h3>State management</h3>
*
* A `@link ChannelHandler` often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:

```
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends `@link SimpleChannelInboundHandler`<Message> {
*
*     `private boolean loggedIn;`<br>
*     ...
* }
```

Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where an unauthenticated client can get
the confidential information:

```
* // Create a new handler instance per channel.
* // See `@link ChannelInitializer#initChannel(Channel)`.
* public class DataServerInitializer extends `@link ChannelInitializer`<Channel> {
*
*     `@code @Override`
*     public void initChannel(Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
```

*Using `@link AttributeKey`s*

Although it's recommended to use member variables to store the state of a
handler, for some reason you might not want to create many handler instances.
In such a case, you can use `@link AttributeKey`s which is provided by
`@link ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}
```

`@code @Sharable`

```java
public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {
    private final @link AttributeKey<Boolean> auth = @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth");

    @Override
    public void channelRead(@link ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        Channel ch = ctx.channel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else (message instanceof GetDataMessage) {
            if (@code Boolean.TRUE.equals(attr.get())) {
                ch.write(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```

Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends @link ChannelInitializer<Channel> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(@link Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

The `@code @Sharable` annotation

In the example above which used an `@link AttributeKey`,
you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `ChannelHandler`, and `ChannelPipeline` to find out more about inbound and outbound operations, what fundamental differences they have, how they flow in a pipeline, and how to handle the operation in your application.

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* `/opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1.jar/io/netty/channel/ChannelHandler.java`

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* `/opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1.jar/io/netty/channel/rxtx/RxtxChannel.java`
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 /* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1.jar/io/netty/channel/rxtx/RxtxDeviceAddress.java */
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 /* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1.jar/io/netty/channel/rxtx/RxtxDeviceAddress.java */
 /* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-all-4-1-24-final-sources-1.jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java */
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/**
 * Enumeration of supported Base64 dialects.
 */

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* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1069270933_1596096817.99/0/netty-handler/codec/dns/DnsOptPseudoRecord.java
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  jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/Conscrypt.java

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* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/PemEncoded.java
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* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/Java8SslUtils.java
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jar/io/netty/handler/flow/package-info.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/address/package-info.java
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* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/PseudoRandomFunction.java

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* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1.jar/io/netty/handler/ssl/SniHandler.java
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* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1.jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1.jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1.jar/io/netty/handler/ssl/InsecureTrustManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1.jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /opt/ws_local/PERMITS_SQL/1063377786_1592971946.17/0/netty-handler-4-1-43-final-sources-1.jar/io/netty/handler/ssl/SslProvider.java

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* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/History.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/UnixTerminal.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleReaderInputStream.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/CompletionHandler.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleRunner.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/NullCompleter.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/FileNameCompleter.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleOperations.java

1.2767 libjpeg 1.2.90-8.el7
1.2767.1 Available under license:
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/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
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; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdinput.c

no license file was found, but licenses were detected in source scan.

/ *
  * jdmarker.c
  *
  * This file was part of the Independent JPEG Group's software:
  * Copyright (C) 1991-1998, Thomas G. Lane.
  * Modifications:
  * Copyright (C) 2012, D. R. Commander.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains routines to decode JPEG datastream markers.
  * Most of the complexity arises from our desire to support input
  * suspension: if not all of the data for a marker is available,
  * we must exit back to the application. On resumption, we reprocess
  * the marker.
  */

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No license file was found, but licenses were detected in source scan.

/ *
* jchuff.c
* *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains Huffman entropy encoding routines.
* *
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
* */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.c
No license file was found, but licenses were detected in source scan.

/ *
* jdapistd.c
* *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
*/
No license file was found, but licenses were detected in source scan.

/*
 * j dct.h
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This include file contains common declarations for the forward and
 * inverse DCT modules. These declarations are private to the DCT managers
 * (j dctm gr. c, j d ctm gr. c) and the individual DCT algorithms.
 * The individual DCT algorithms are kept in separate files to ease
 * machine-dependent tuning (e.g., assembly coding).
 */

No license file was found, but licenses were detected in source scan.

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 * Copyright (C)2011-2012 D. R. Commander. All Rights Reserved.
 *
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 * modification, are permitted provided that the following conditions are met:
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* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

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/*
* jidctred.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
* The implementation is based on the Loeffler, Lichtenberg and Moschytz (LL&M)
* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.
* 1x1 is trivial: just take the DC coefficient divided by 8.
* See jidctint.c for additional comments.
*/
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctred.c

No license file was found, but licenses were detected in source scan.

/

* jdsample.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains upsampling routines.
* 
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
* 
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmerge.c

No license file was found, but licenses were detected in source scan.

/

* jdmerge.c
 *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains code for merged upsampling/color conversion.
* 
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
When the chroma components are to be upsampled by simple replication (ie, box filtering), we can save some work in color conversion by calculating all the output pixels corresponding to a pair of chroma samples at one time. In the conversion equations:

\[
\begin{align*}
R &= Y + K1 \times Cr \\
G &= Y + K2 \times Cb + K3 \times Cr \\
B &= Y + K4 \times Cb
\end{align*}
\]

only the Y term varies among the group of pixels corresponding to a pair of chroma samples, so the rest of the terms can be calculated just once. At typical sampling ratios, this eliminates half or three-quarters of the multiplications needed for color conversion.

This file currently provides implementations for the following cases:

- YCbCr => RGB color conversion only.
- Sampling ratios of 2h1v or 2h2v.
- No scaling needed at upsample time.
- Corner-aligned (non-CCIR601) sampling alignment.
- Other special cases could be added, but in most applications these are the only common cases. (For uncommon cases we fall back on the more general code in jdsample.c and jdcolor.c.)

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmerge.c

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This file contains library routines for transcoding compression, that is, writing raw DCT coefficient arrays to an output JPEG file.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

This file contains library routines for transcoding compression, that is, writing raw DCT coefficient arrays to an output JPEG file.

The routines in jcapimin.c will also be needed by a transcoder.

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jctrans.c

No license file was found, but licenses were detected in source scan.
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
* jcapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jtrans.c for the transcoding case.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
* jdpostct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the decompression postprocessing controller.
* This controller manages the upsampling, color conversion, and color
* quantization/reduction steps; specifically, it controls the buffering
* between upsample/color conversion and color quantization/reduction.
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jdmrgext.c
*
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*
* This file contains code for merged upsampling/color conversion.
*/
/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

/*
 * transupp.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

/*
 * /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmrgext.c
 * No license file was found, but licenses were detected in source scan.
 */

/*
 * /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdtarga.c
 * No license file was found, but licenses were detected in source scan.
 */

/*
 * /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.c
 * No license file was found, but licenses were detected in source scan.
 */
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
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 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jddctmgr.c
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/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
 */

/*
 * Sizzle CSS Selector Engine - v0.9.3
 * Copyright 2009, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */

*/

* jQuery UI 1.7.2
*
Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
*
* http://docs.jquery.com/UI
* /
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/doc/html/jquery.js
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccoefct.c
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/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.h
No license file was found, but licenses were detected in source scan.

/*
* rdcolmap.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
*
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
*   each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdcolmap.c
/*
 * jdcoefct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
 * This controller is the top level of the JPEG decompressor proper.
 * The coefficient buffer lies between entropy decoding and inverse-DCT steps.
 *
 * In buffered-image mode, this controller is the interface between
 * input-oriented processing and output-oriented processing.
 * Also, the input side (only) is used when reading a file for transcoding.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 */
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
*
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
* djpeg [options] inputfile outputfile
* djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
* jmorecfg.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

{\rtf1ansi\ansi\ansicpg1252\cocoartf1038\cocoasubrtf360
{\fonttbl\f0\fswiss\fcharset0 Helvetica;}
{\color{\red255}\color{\green255}\color{\blue255}}
\margl1440\margr1440\vieww26380\viewh15840\viewkind0
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2–4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/ReadMe.rtf
No license file was found, but licenses were detected in source scan.

/*
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG compressor proper; it holds downscaled data in the JPEG colorspace.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains portable arithmetic entropy encoding routines for JPEG
* 
* Both sequential and progressive modes are supported in this single module.
* 
* Suspension is not currently supported in this module.
* 
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcarith.c

No license file was found, but licenses were detected in source scan.

/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
* /

/* Portions of this code are based on the PBMPPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
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** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
/*
 * jcphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains Huffman entropy encoding routines for progressive JPEG.
 * We do not support output suspension in this module, since the library
currently does not allow multiple-scan files to be written with output
 * suspension.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcphuff.c

No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This include file defines the interface between the system-independent
 * and system-dependent portions of the JPEG memory manager. No other
 * modules need include it. (The system-independent portion is jmemmgr.c;
 * there are several different versions of the system-dependent portion.)
 * This file works as-is for the system-dependent memory managers supplied
 * in the IJG distribution. You may need to modify it if you write a
 * custom memory manager. If system-dependent changes are needed in
 * this file, the best method is to #ifndef them based on a configuration
 * symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
 * and USE_MAC_MEMMGR.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemsys.h

No license file was found, but licenses were detected in source scan.
/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 *
 * We also provide IDCT routines with various output sample block sizes for
 * direct resolution reduction or enlargement without additional resampling:
 * NxN (N=1...16) pixels for one 8x8 input DCT block.
 *
 * For N<8 we simply take the corresponding low-frequency coefficients of
 * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
 * to yield the downscaled outputs.
 * This can be seen as direct low-pass downsampling from the DCT domain
 * point of view rather than the usual spatial domain point of view,
 * yielding significant computational savings and results at least
 * as good as common bilinear (averaging) spatial downsampling.
 *
 * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
 * lower frequencies and higher frequencies assumed to be zero.
 * It turns out that the computational effort is similar to the 8x8 IDCT
 * regarding the output size.
 * Furthermore, the scaling and descaling is the same for all IDCT sizes.
 *
 * CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
 * since there would be too many additional constants to pre-calculate.
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
  * don't support pipes. Also, you MUST use the first style if your system
  * doesn't do binary I/O to stdin/stdout.
  * To simplify script writing, the "-outfile" switch is provided. The syntax
  * `cjpeg [options] -outfile outputfile inputfile`
  * works regardless of which command line style is used.
  */

Find in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cjpeg.c
No license file was found, but licenses were detected in source scan.

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software for a particular purpose. This software is provided "AS IS", and you,
reasons for developing this free software was to help force convergence on

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.c
No license file was found, but licenses were detected in source scan.
/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuff.h
No license file was found, but licenses were detected in source scan.

/*
 * jdcolor.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2009, 2011-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 */
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolor.c
No license file was found, but licenses were detected in source scan.

IJJ JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJJ JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJJ distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***
Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

**JPEG proper:**
- Entropy decoding (sequential or progressive, Huffman or arithmetic).
- Dequantization, inverse DCT, MCU disassembly.

**Postprocessing:**
- Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
- Optional color quantization (e.g., reduction to 256 colors).
- Optional color precision reduction (e.g., 24-bit to 15-bit color).

[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can
choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might
have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:
input data => processing step A => buffer => processing step B => output data

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
    |-- Preprocessing controller --|
        |-- Downsampling

Main controller --|
    |-- Forward DCT, quantize
    |-- Coefficient controller --|
        |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One
or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of
In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
   |-- Coefficient controller --|
        |-- Dequantize, Inverse DCT
Main controller --|
```
As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a
buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress
monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because
there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char,
(signed) char, or short. Short will be used if samples wider than 8 bits are
to be supported (this is a compile-time option). Otherwise, unsigned char is
used if possible. If the compiler only supports signed chars, then it is
necessary to mask off the value when reading. Thus, all reads of JSAMPLE
values must be coded as "GETJSAMPLE(value)", where the macro will be defined
as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps
simplify correct rounding during downsampling, etc. The JPEG standard's
specification that sample values run from -128..127 is accommodated by
subtracting 128 from the sample value in the DCT step. Similarly, during
decompression the output of the IDCT step will be immediately shifted back to
0..255. (NB: different values are required when 12-bit samples are in use.
The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be
defined as 255 and 128 respectively in an 8-bit implementation, and as 4095
and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This
choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of
  the rows. This simplifies edge expansion/compression, since we can work
  in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many
  machines.
* Arrays with more than 64K total elements can be supported even on machines
  where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times
  without extra copying. This trick allows some speedups in smoothing steps
  that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the
traditional layout in which the components of a pixel are stored together.
This simplifies coding of modules that work on each component independently,
because they don't need to know how many components there are. Furthermore,
we can read or write each component to a temporary file independently, which
Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; // ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can’t handle a request bigger than 64Kb, this data...
structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand
bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two
pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   - On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   - Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply
allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The
realize routine must allow for space occupied by non-virtual large objects.
(We don't bother to factor in the space needed for small objects, on the
grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business
with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan)
during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be
allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.
   The above conventions ensure that sufficient information is available
   for it to choose a good size for virtual array buffers.
Small objects of any lifespan may be allocated at any time. We expect that
the total space used for small objects will be small enough to be negligible
in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is
infinite, thus causing realize_virt_arrays to decide that it can allocate all
the virtual arrays as full-size in-memory buffers. The overhead of the
virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set,
ever-yet-written sections of the array are set to zero before being made
available to the caller. If this flag is not set, never-written sections
of the array contain garbage. (This feature exists primarily because the
equivalent logic would otherwise be needed in jdcoefct.c for progressive
JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom
order; read passes, as well as any write passes after the first one, may
access the array in any order. This restriction exists partly to simplify
the virtual array control logic, and partly because some file systems may not
support seeking beyond the current end-of-file in a temporary file. The main
implication of this restriction is that rearrangement of rows (such as
converting top-to-bottom data order to bottom-to-top) must be handled while
reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the
memory manager into two parts. There is a reasonably system-independent
"front end" (jmemmgr.c) and a "back end" that contains only the code
likely to change across systems. All of the memory management methods
outlined above are implemented by the front end. The back end provides
the following routines for use by the front end (none of these routines
are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown

jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MS-DOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_open_backing_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at
need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image
height (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only
find out the true image height at the end of the first scan.
We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/structure.txt
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/
* jcparam.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcparam.c

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/
* jquant1.c
*
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* Modifications:
* Copyright (C) 2009, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant1.c

No license file was found, but licenses were detected in source scan.

/
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
This file contains a very simple stand-alone application that inserts
user-supplied text as a COM (comment) marker in a JFIF file.
This may be useful as an example of the minimum logic needed to parse
JPEG markers.

Found in path(s):
/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrjpgcom.c
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/*
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
*
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common support routines used by the IJG application
* programs (cjjpeg, djpeg, jpegtran).
*/

Found in path(s):
/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/ *
* jfdctflt.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
* 
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
* 
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctflt.c

No license file was found, but licenses were detected in source scan.

/ *
* jdmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmaster.c
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/*
 * jquant2.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally-given color map.
 *
 * Note: ordered dithering is not supported, since there isn't any fast
 * way to compute intercolor distances; it's unclear that ordered dither's
 * fundamental assumptions even hold with an irregularly spaced color map.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant2.c
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/*
 * jdhuff.c
 *
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 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy decoding routines.
*
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

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; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
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;
; [TAB8]

; System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)---------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32
%ifdef __YASM_VER__
%define SEG_TEXT .text  align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text  align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text  align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name			; foo() -> foo

%elifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)----------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text  align=16 public use32 class=CODE
%define SEG_CONST .data  align=16 public use32 class=DATA

%elifdef ELF; ----(nasm -felf[64] -DELF ...)----------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16

%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; ELF supports PIC
%define EXTN(name) name

%elifdef AOUT; ----(nasm -faout/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -faoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text :align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL __MACHO_PIC__; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

%endif; ---------------------------------------------------------------

;=========================================================================

;------------------------------------------------------------------------

; Common types
%ifdef __x86_64__
%define POINTER   qword        ; general pointer type
%define SIZEOF_POINTER     SIZEOF_QWORD ; sizeof(POINTER)
%define POINTER_BIT   QWORD_BIT     ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER   dword        ; general pointer type
%define SIZEOF_POINTER     SIZEOF_DWORD ; sizeof(POINTER)
%define POINTER_BIT   DWORD_BIT     ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT        dword        ; signed integer type
%define SIZEOF_INT   SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT     DWORD_BIT     ; sizeof(INT)*BYTE_BIT

%define FP32       dword        ; IEEE754 single
%define SIZEOF_FP32  SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT    DWORD_BIT     ; sizeof(FP32)*BYTE_BIT

%define MMWORD     qword        ; int64  (MMX register)
%define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT  QWORD_BIT     ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD     ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT  QWORD_BIT     ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE   1        ; sizeof(BYTE)
%define SIZEOF_WORD   2        ; sizeof(WORD)
%define SIZEOF_DWORD  4        ; sizeof(DWORD)
%define SIZEOF_QWORD  8        ; sizeof(QWORD)
%define SIZEOF_OWORD  16       ; sizeof(OWORD)

%define BYTE_BIT      8        ; CHAR_BIT in C
%define WORD_BIT      16       ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT     32       ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT     64       ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT     128      ; sizeof(OWORD)*BYTE_BIT

; **************************************************************************
; External Symbol Name
;
%ifndef EXTN
%define EXTN(name) _ %+ name; foo() -> _foo
%endif

; ----------------------------------------
; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; -------------------------------------------
%ifidn GOT_SYMBOL,_MACHO_PIC_ ; -------------------
; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.
SECTION	SEG_CONST
const_base:
%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx resister.
call%geteip
add ecx, byte (%ref - $)
jmpshort %adjust
%geteip:
mov ecx, POINTER [esp]
ret
%adjust:
pushebp
xor ebp, ebp
%ifdefi %1,ebx
; db 0x8D,0x9C + jmp near const_base =
lea ebx, [ecx+ebx*8+(const_base-%ref)] ; 8D,9C,E9,(offset32)
db 0x8D,0x9C ; 8D,9C
jmpnear const_base; E9,(const_base-%ref)
%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =
lea ecx, [ecx+ebx*8+(const_base-%ref)] ; 8D,8C,E9,(offset32)
db 0x8D,0x8C ; 8D,8C
jmpnear const_base; E9,(const_base-%ref)
%ref:
%endif ; (%1 == ebx)
popebp
%endif
%else; GOT_SYMBOL != _MACHO_PIC_ ----------------

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%imacro get_GOT1
extern GOT_SYMBOL
call %geteip
add %1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmp short %%done
%%%geteip:
mov %1, POINTER [esp]
ret
%%%done:
%endmacro

%endif; GOT_SYMBOL == _MACHO_PIC_ ----------------

%imacro pushpic1.nolist
push %1
%endmacro
%imacro poppic1.nolist
pop %1
%endmacro
%imacro movpic2.nolist
mov %1,%2
%endmacro

%else; !PIC -------------------------------

%define GOTOFF(got,sym) (sym)

%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; !PIC -------------------------------

;; Align the next instruction on {2,4,8,16...}-byte boundary.
;; ";.balign n,m" in GNU as
;
%define MSKLE(x,y) (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2, nolist 0xFFFF
%bs: times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1) & FILLB($,%1)
   db 0x90 ; nop
   times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1)/9 
   db 0x8D,0xAC,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
   times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1)/7 
   db 0x8D,0xAD,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
   times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1)/6 
   db 0x8D,0xA5,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
   times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1)/4 
   db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x00]
   times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1)/3 
   db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
   times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1)/2 
   db 0x8B,0xED ; mov ebp,ebp
   times MSKLE(FILLB(%bs,%1),%2) & FILLB($,%1)/1 
   db 0x90 ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1, nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__

%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub rbp, SIZEOF_XMMWORD
movaps XMMWORD [rsi], xmm6
sub rbp, SIZEOF_XMMWORD
movaps XMMWORD [rsi], xmm7

%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro

%endif

%endif

; --------------------------------------------------------------------------
;  Defines picked up from the C headers
;
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.

/*
 * jchuff.h
 * 
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 * 
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 * 
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapimin.c
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/doc/html/search/search.js
No license file was found, but licenses were detected in source scan.

/*
 * jpegtran.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
 * lossless transcoding between different JPEG file formats. It also
 * provides some lossless and sort-of-lossless transformations of JPEG data.
 */

/*
 * jdatadst-tj.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

/*
 * rdbmp.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2010 by Guido Vollbeding.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-bit and 24-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdrle.c
No license file was found, but licenses were detected in source scan.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed BMP format).
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jccolor.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
* rdjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
License: IJG

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * jconfig.txt
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file documents the configuration options that are required to
 * customize the JPEG software for a particular system.
 *
 * The actual configuration options for a particular installation are stored
 * in jconfig.h. On many machines, jconfig.h can be generated automatically
 * or copied from one of the "canned" jconfig files that we supply. But if
 * you need to generate a jconfig.h file by hand, this file tells you how.
 *
 * DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
 * EDIT A COPY NAMED JCONFIG.H.
 */

/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"?
 * How about "unsigned short"?
 */
#define HAVE UNSIGNED CHAR
#define HAVE UNSIGNED SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
/* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__  /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN  /* prevent jmorecfg.h from redefining it */
#endif

/*
* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED
#endif /* JPEG_INTERNALS */

#endif /* JPEG_INTERNALS */

/* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/
#ifdef JPEG_CJPEG_DJPEG
/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED/* BMP image file format */
*/
#define GIF_SUPPORTED/* GIF image file format */
#define PPM_SUPPORTED/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED/* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpegl.c or djpegl.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpegl/djpegl.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEGL_DJPEGL */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

* jpeglib.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the application interface for the JPEG library.
Most applications using the library need only include this file, and perhaps jerror.h if they want to know the exact error codes.

This file was part of the Independent JPEG Group's software:
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Modifications:
Copyright (C) 2010, 2012-2013, D. R. Commander.
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This file contains software version identification.

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# modification, are permitted provided that the following conditions are met:
# - Redistributions of source code must retain the above copyright notice,
#   this list of conditions and the following disclaimer.
# - Redistributions in binary form must reproduce the above copyright notice,
#   this list of conditions and the following disclaimer in the documentation
# - Neither the name of the libjpeg-turbo Project nor the names of its
#   software without specific prior written permission.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.
Since numerous people will be contributing code and bug fixes, it’s important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

/*
 *  Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and
can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.
4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/coderules.txt
  No license file was found, but licenses were detected in source scan.

/ *
  * jdarith.c
  *
  * Developed 1997-2009 by Guido Vollbeding.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains portable arithmetic entropy decoding routines for JPEG
  *
  * Both sequential and progressive modes are supported in this single module.
  *
  * Suspension is not currently supported in this module.
  */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdarith.c
  No license file was found, but licenses were detected in source scan.

/ *
  * jcdctmgr.c
  *
  * This file was part of the Independent JPEG Group's software:
  * Copyright (C) 1994-1996, Thomas G. Lane.
  * Modifications:
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINODWS.MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to stdout under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expandarchive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
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 *
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*
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- Neither the name of the libjpeg-turbo Project nor the names of its
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* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpeg turbo/turbojpeg/TJTransformer.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpeg turbo/turbojpeg/TJTransform.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/org/libjpeg turbo/turbojpeg/TJScalingFactor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tutil.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcstest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcstest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.c
No license file was found, but licenses were detected in source scan.

From c51b66ecbace2a2dec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's JERR_PPM_OUTOFRANGE enum value in lieu of our project-specific JERR_PPM_TOOLARGE enum value.

Fixes #258

---

cderror.h | 5 +++--
rdbmp.c | 7 ++++++-
rdppm.c | 4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)

diff --git a/cderror.h b/cderror.h
index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
* cderror.h
* Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
@@ -48,6 +48,7 @@
JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapmated BMP image")
JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@
JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
#ifdef PPM_SUPPORTED
JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
JMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
-JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
JMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")

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+JMESSAGE(JERR_PPM_OUTOFRANGE, "Numeric value out of range in PPM file")

JMESSAGE(JTRC_PGM, "%ux%u PGM image")

JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")

JMESSAGE(JTRC_PPM, "%ux%u PPM image")

diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@
 typedef struct _bmp_source_struct {
     JDIMENSION row_width;  /* Physical width of scanlines in file */
     int bits_per_pixel;    /* remembers 8- or 24-bit format */
+    int cmap_length;        /* colormap length */
     bmp_source_struct;
}

@@ -124,6 +125,7 @@
 int bits_per_pixel; /* remembers 8- or 24-bit format */
+ int cmap_length;  /* colormap length */
 } bmp_source_struct;

@@ -399,6 +403,7 @@
 source->colormap = (*cinfo->mem->alloc_sarray)
 *(j_common_ptr) cinfo, JPOOL_IMAGE,
 (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+ source->cmap_length = (int)biClrUsed;
/* and read it from the file */
read_colormap(source, (int) biClrUsed, mapentrysize);
/* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
  JSAMPROW pixrow;/* FAR pointer to same */
  size_t buffer_width;/* width of I/O buffer */
  JSAMPLE *rescale;/* => maxval-remapping array, or NULL */
-  int maxval;
+  unsigned int maxval;
} ppm_source_struct;
}
typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
}

if (val > maxval)
-    ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+    ERREXIT(cinfo, JERR_PPM_OUTOFRANGE);
    return val;
}

2.17.2

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains downsampling routines.
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 * The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as

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fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

- libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

- libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/deb-control.tmpl
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/*
 * jsimd_x86_64.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * x86_64 architecture.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
No license file was found, but licenses were detected in source scan.

; : j dct.inc - private declarations for forward & reverse DCT subsystems
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples
%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)
%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

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libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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*******************************************************************************
**     Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress
JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

Installation Directory

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

Replacing libjpeg at Run Time

Un*x

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/[lib]:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys  0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the
64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with
links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}.
This will effectively accelerate every application that uses the libjpeg
dynamic library on the system.

Windows
-------

If a Windows application is dynamically linked with libjpeg, then you can
replace libjpeg with libjpeg-turbo at run time by backing up the application's
copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its
own local copy of this library) and copying the corresponding DLL from
libjpeg-turbo into the application's install directory. The official
libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses
jpeg7.dll or jpeg8.dll instead, then it will be necessary to build
libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary
packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll).
msvcr90.dll ships with more recent versions of Windows, but users of older
Windows releases can obtain it from the Visual C++ 2008 Redistributable
Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure,
such as a file handle, from an application to the library will probably not
work with jpeg62.dll, unless the application is also built to use the Visual
C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and
jpeg_stdio_src().

Mac
---

Mac applications typically embed their own copies of the libjpeg dylib inside
the (hidden) application bundle, so it is not possible to globally replace
libjpeg on OS X systems. Replacing the application's version of the libjpeg
dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into
the appropriate place in the application bundle and using install_name_tool to
repoint the libjpeg-turbo dylib to its new directory. This requires an
advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

========================================

Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at runtime. On such systems, you can pass `-R /opt/libjpeg-turbo/{lib}` to the linker to force the use of libjpeg-turbo at runtime rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add `/opt/libjpeg-turbo/lib/libjpeg.a` to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add `c:\libjpeg-turbo[64]\include` to the system or user INCLUDE environment variable and `c:\libjpeg-turbo[64]\lib` to the system or user LIB environment variable, and then link against either `jpeg.lib` (to use the DLL version of libjpeg-turbo) or `jpeg-static.lib` (to use the static version of libjpeg-turbo.)
Colorspace Extensions

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

JCS_EXT_RGB    /* red/green/blue */
JCS_EXT_RGBX   /* red/green/blue/x */
JCS_EXT_BGR    /* blue/green/red */
JCS_EXT_BGRX   /* blue/green/red/x */
JCS_EXT_XBGR   /* x/blue/green/red */
JCS_EXT_XRGB   /* x/red/green/blue */
JCS_EXT_RGBA   /* red/green/blue/alpha */
JCS_EXT_BGRA   /* blue/green/red/alpha */
JCS_EXT_ABGR   /* alpha/blue/green/red */
JCS_EXT_ARGB   /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

#ifdef JCS_EXTENSIONS

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a “Bogus input colorspace” error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

#ifdef JCS_ALPHA_EXTENSIONS

jctest.c, located in the libjpeg-turbo source tree, demonstrates how to check
for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. Libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
=======================================

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
Libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)
-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.
-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
------------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====================================  
In-Memory Source/Destination Managers  
=====================================  

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

 Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.
Note that, on most Unix systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjjpeg and djjpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
** Mathematical Compatibility
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.
** Performance Pitfalls

==============

Restart Markers
==============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Located at:

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-arc

No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

Located at:

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-arc
/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
 * /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdphuff.c

No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
 * /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaster.c

No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 */
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*
/*

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

/ *
* jaricom.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

/ *
* jpegcomp.h
*
* Copyright (C) 2010, D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* JPEG compatibility macros
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/
/*
*jdatasrc-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

/*
jccolext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

/*
*/
This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

This file contains compression data destination routines for the case of
emitting JPEG data to memory or to a file (or any stdio stream).
While these routines are sufficient for most applications,
some will want to use a different destination manager.
IMPORTANT: we assume that fwrite() will correctly transcribe an array of
JOCTETs into 8-bit-wide elements on external storage. If char is wider
than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
* cerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cerror.h
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
====================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4,
11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will
not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8.
The "age number" of the libjpeg-turbo library on Unix systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUniTTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQDU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly split.
divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "'%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
================

Open Source Used In Data Center Network Manager 11.5(1) 32025
[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).
[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was
enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See
README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====
[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
======

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/ChangeLog.txt
Open Source Used In Data Center Network Manager 11.5(1) 32031

No license file was found, but licenses were detected in source scan.

/*
 * jsimd_i386.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains the interface between the "normal" portions
 * of the library and the SIMD implementations when running on a
 * 32-bit x86 architecture.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampling data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jinclude.h
 */
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
* 
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jinclude.h

No license file was found, but licenses were detected in source scan.

/*
* rdgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in GIF format.
* 
* ********************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,  *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                            *
* ********************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdgif.c

No license file was found, but licenses were detected in source scan.

/*
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
Open Source Used in Data Center Network Manager 11.5(1) 32033

* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* *
*/

Found in path(s):
  */opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
  * rdswitch.c
  *
  * This file was part of the Independent JPEG Group's software:
  * Copyright (C) 1991-1996, Thomas G. Lane.
  * Modifications:
  * Copyright (C) 2010, D. R. Commander.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains routines to process some of cjpeg's more complicated
  * command-line switches. Switches processed here are:
  * -qtables file Read quantization tables from text file
  * -scans file Read scan script from text file
  * -quality N[N,...] Set quality ratings
  * -qslots N[N,...] Set component quantization table selectors
  * -sample HxV[HxV,...] Set component sampling factors
  */

Found in path(s):
  */opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdswitch.c
No license file was found, but licenses were detected in source scan.

; ; jcolsamp.inc - private declarations for color conversion & up/downsampling
; ; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; ; Based on
; ; x86 SIMD extension for IJG JPEG library
; ; Copyright (C) 1999-2006, MIYASAKA Masaru.
; ; For conditions of distribution and use, see copyright notice in jsimdext.inc
; ; [TAB8]
; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif
%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------------

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcolsamp.inc

No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrtarga.c

No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
 ***************************************************************
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
 * this code has been modified to output "uncompressed GIF" files.     *
 * There is no trace of the LZW algorithm in this file.              *
 ***************************************************************
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 */

/* This code is loosely based on ppmtogif from the PBMPLUS distribution
 * of Feb. 1991. That file contains the following copyright notice:
 * Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
  documentation for any purpose and without fee is hereby granted, provided
  that the above copyright notice appear in all copies and that both that
  copyright notice and this permission notice appear in supporting
  documentation. This software is provided "as is" without express or
  implied warranty.

* We are also required to state that
  * "The Graphics Interchange Format(c) is the Copyright property of
    CompuServe Incorporated. GIF(sm) is a Service Mark property of
    CompuServe Incorporated."
* /

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.
Modifications:
Copyright (C) 2010, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling
the JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object
A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
====================

Data formats
------------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call.
It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.
You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

`jpeg_create_compress` allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling `jpeg_start_compress()` and `jpeg_finish_compress()`.
3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling `jpeg_set_defaults();` then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling `jpeg_set_defaults()`, because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_set_defaults()` more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
        cinfo.image_width = Width; /* image width and height, in pixels */
        cinfo.image_height = Height;
        cinfo.input_components = 3; /* # of color components per pixel */
        cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

        jpeg_set_defaults(&cinfo);
        /* Make optional parameter settings here */
```

4. `jpeg_start_compress(...);`

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.
Typical code:

```c
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   `jpeg_write_scanlines(...);`

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `cjpeg`.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
```
jpeg_write_scanlines(&cinfo, row_pointer, 1);
}

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.
In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you
should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.
Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

   struct jpeg_decompress_struct cinfo;
   struct jpeg_error_mgr jerr;
   ...
   cinfo.err = jpeg_std_error(&jerr);
   jpeg_create_decompress(&cinfo);

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

   FILE *infile;
   ...
   if ((infile = fopen(filename, "rb")) == NULL) {
       fprintf(stderr, "can't open %s\n", filename);
       exit(1);
   }
   jpeg_stdio_src(&cinfo, infile);

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to
You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

```
jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.
```

If the defaults are appropriate, nothing need be done at this step.
Note that all default values are set by each call to jpeg_read_header().
If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression.
You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- output_width: image width and height, as scaled
- output_height
- out_color_components: # of color components in out_color_space
- output_components: # of color components returned per pixel
- colormap: the selected colormap, if any
- actual_number_of_colors: number of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the
relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (i.e., the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.)

The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);
If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

    jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.
The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
-------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend
you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

```
jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().
```

```
jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.
```

```
jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.
```

```
jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.
```

```
jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise.
```
force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear
scaling percentage. Note that this routine may change or go away
in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the
premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values
(see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
const unsigned int *basic_table,
int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array
of 64 unsigned ints given in normal array order. These values are
multiplied by scale_factor/100 and then clamped to the range 1..65535
(or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for
minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1). You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to

---

Open Source Used In Data Center Network Manager 11.5(1) 32057
cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.

Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.
int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
-------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width Width and height of image
JDIMENSION image_height
int num_components
Number of color components

J_COLORSPACE jpeg_color_space
Colorspace of image

boolean saw_JFIF_marker
TRUE if a JFIF APP0 marker was seen

UINT8 JFIF_major_version
Version information from JFIF marker

UINT8 JFIF_minor_version

UINT8 density_unit
Resolution data from JFIF marker

UINT16 X_density

UINT16 Y_density

boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen

UINT8 Adobe_transform
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLORSPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color
map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself. [Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress(). Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.
boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width	Actual dimensions of output image.
JDIMENSION output_height	
int out_color_components	Number of color components in out_color_space.
int output_components	Number of color components returned.
int rec_outbuf_height	Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
------------------
The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field \texttt{in\_color\_space}. This is transformed to the JPEG file's color space given by \texttt{jpeg\_color\_space}. \texttt{jpeg\_set\_defaults()} chooses a reasonable JPEG color space depending on \texttt{in\_color\_space}, but you can override this by calling \texttt{jpeg\_set\_colorspace()}. Of course you must select a supported transformation. \texttt{jccolor.c} currently supports the following transformations:

- RGB \rightarrow YCbCr
- RGB \rightarrow GRAYSCALE
- YCbCr \rightarrow GRAYSCALE
- CMYK \rightarrow YCCK

plus the null transforms: GRAYSCALE \rightarrow GRAYSCALE, RGB \rightarrow RGB, YCbCr \rightarrow YCbCr, CMYK \rightarrow CMYK, YCCK \rightarrow YCCK, and UNKNOWN \rightarrow UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. \texttt{jpeg\_set\_colorspace()} will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space. For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting \texttt{in\_color\_space} and \texttt{jpeg\_color\_space} to JCS\_YCbCr; use JCS\_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for \texttt{jpeg\_set\_colorspace()}, in \texttt{jcparam.c}, for details.

For decompression, the JPEG file's color space is given in \texttt{jpeg\_color\_space}, and this is transformed to the output color space \texttt{out\_color\_space}. \texttt{jpeg\_read\_header}'s setting of \texttt{jpeg\_color\_space} can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

\[\text{YCbCr} \rightarrow \text{RGB} \]
\[\text{YCbCr} \rightarrow \text{GRAYSCALE} \]
\[\text{RGB} \rightarrow \text{GRAYSCALE} \]
\[\text{GRAYSCALE} \rightarrow \text{RGB} \]
\[\text{YCCK} \rightarrow \text{CMYK} \]
as well as the null transforms. (Since \text{GRAYSCALE} \rightarrow \text{RGB} is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK \rightarrow YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninveted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
the importance of the message; you can control the verbosity of the
program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by
only replacing some of the routines depending on the behavior you need.
This is accomplished by calling jpeg_std_error() as usual, but then overriding
some of the method pointers in the jpeg_error_mgr struct, as illustrated by
equivalent c.

All of the error handling routines will receive a pointer to the JPEG object
(a j_common_ptr which points to either a jpeg_compress_struct or a
jpeg_decompress_struct; if you need to tell which, test the is_decompressor
field). This struct includes a pointer to the error manager struct in its
"err" field. Frequently, custom error handler routines will need to access
additional data which is not known to the JPEG library or the standard error
handler. The most convenient way to do this is to embed either the JPEG
object or the jpeg_error_mgr struct in a larger structure that contains
additional fields; then casting the passed pointer provides access to the
additional fields. Again, see example.c for one way to do it. (Beginning
with IJG version 6b, there is also a void pointer "client_data" in each
JPEG object, which the application can also use to find related data.
The library does not touch client_data at all.)

The individual methods that you might wish to override are:

  error_exit (j_common_ptr cinfo)
  Receives control for a fatal error. Information sufficient to
generate the error message has been stored in cinfo->err; call
output_message to display it. Control must NOT return to the caller;
generally this routine will exit() or longjmp() somewhere.
Typically you would override this routine to get rid of the exit()
default behavior. Note that if you continue processing, you should
clean up the JPEG object with jpeg_abort() or jpeg_destroy().

  output_message (j_common_ptr cinfo)
  Actual output of any JPEG message. Override this to send messages
somewhere other than stderr. Note that this method does not know
how to generate a message, only where to send it.

  format_message (j_common_ptr cinfo, char * buffer)
  Constructs a readable error message string based on the error info
stored in cinfo->err. This method is called by output_message. Few
applications should need to override this method. One possible
reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte;  /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

```c
init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped.
```
free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatsrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.
For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension

---------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted.

The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.
Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a
convenient restart point before suspending. When fill_input_buffer() is
called, next_input_byte/bytes_in_buffer point to the current restart point,
which is where the decompressor will backtrack to if FALSE is returned.
The data beyond that position must NOT be discarded if you suspend; it needs
to be re-read upon resumption. In most implementations, you'll need to shift
this data down to the start of your work buffer and then load more data after
it. Again, this behavior means that a several-Kbyte work buffer is essential
for decent performance; furthermore, you should load a reasonable amount of
new data before resuming decompression. (If you loaded, say, only one new
byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a
suspension scenario. This routine is NOT granted the ability to suspend the
decompressor; it can decrement bytes_in_buffer to zero, but no more. If the
requested skip distance exceeds the amount of data currently in the input
buffer, then skip_input_data() must set bytes_in_buffer to zero and record the
additional skip distance somewhere else. The decompressor will immediately
call fill_input_buffer(), which should return FALSE, which will cause a
suspension return. The surrounding application must then arrange to discard
the recorded number of bytes before it resumes loading the input buffer.
(Yes, this design is rather baroque, but it avoids complexity in the far more
common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning
and insert dummy EOI markers just as a non-suspending data source manager
would do. This can be handled either in the surrounding application logic or
within fill_input_buffer(); the latter is probably more efficient. If
fill_input_buffer() knows that no more data is available, it can set the
pointer/count to point to a dummy EOI marker and then return TRUE just as
though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers;
instead it will backtrack to the start of the marker and reprocess the whole
marker next time. Hence the input buffer must be large enough to hold the
longest standard marker in the file. Standard JPEG markers should normally
not exceed a few hundred bytes each (DHT tables are typically the longest).
We recommend at least a 2K buffer for performance reasons, which is much
larger than any correct marker is likely to be. For robustness against
damaged marker length counts, you may wish to insert a test in your
application for the case that the input buffer is completely full and yet
the decoder has suspended without consuming any data --- otherwise, if this
situation did occur, it would lead to an endless loop. (The library can't
provide this test since it has no idea whether "the buffer is full", or
even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn
markers, but these are handled specially: they are either saved into allocated
memory, or skipped over by calling skip_input_data(). In the former case,
suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.
The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of
a multi-scan file during jpeg_start_decompress(), so that it can provide a
final decoded image. (Here “multi-scan” means either progressive or
multi-scan sequential.) This makes multi-scan files transparent to the
decoding application. However, existing applications that used suspending
input with version 5 of the IJG library will need to be modified to check
for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's
buffered-image mode. This is described in the next section.

Buffered-image mode
---------------------

In buffered-image mode, the library stores the partially decoded image in a
coefficient buffer, from which it can be read out as many times as desired.
This mode is typically used for incremental display of progressive JPEG files,
but it can be used with any JPEG file. Each scan of a progressive JPEG file
adds more data (more detail) to the buffered image. The application can
display in lockstep with the source file (one display pass per input scan),
or it can allow input processing to outrun display processing. By making
input and display processing run independently, it is possible for the
application to adapt progressive display to a wide range of data transmission
rates.

The basic control flow for buffered-image decoding is

jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()

This differs from ordinary unbuffered decoding in that there is an additional
level of looping. The application can choose how many output passes to make
and how to display each pass.
The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically
while (! jpeg_input_complete(&cinfo))
and the start-output call should read
jpeg_start_output(&cinfo, cinfo.input_scan_number);
The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above (JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)
The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan
number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
  This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL. (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However,
only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant
- enable_external_quant
- enable_2pass_quant

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.
Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
---------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.
A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer’s responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.
To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

if (cinfo.quant_tbl_ptrs[n] == NULL)
cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL */
for (i = 0; i < 64; i++) {
   /* Qtable[] is desired quantization table, in natural array order */
   quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
   /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
   huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
   /* symbols[] is the list of Huffman symbols, in code-length order */
   huff_ptr->huffval[i] = symbols[i];
}

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a
constant JQUANT_TBL object is not safe. If the incoming file happened to
contain a quantization table definition, your master table would get
overwritten! Instead allocate a working table copy and copy the master table
into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than
hard-wiring them into your application. The jpeg_read_header() call is
sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the
typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
--------------

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized -- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you
Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read. The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many data streams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call jpeg_save_markers(cinfo, marker_code, length_limit) where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature:
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
-------------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to
use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downscaled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorsapce() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will
be exactly that amount (or possibly some multiple of that amount, in future
library versions). This is true even on the last call at the bottom of the
image; don’t forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each
component as
cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than DCTSIZE samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downsamphed_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row
of Y data is dummy, so it doesn't matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing:
you cannot ask for rescaling or color quantization, for instance. More
seriously, you must deal with the color space and sampling factors present in
the incoming file. If your application only handles, say, 2h1v YCbCr data,
you must check for and fail on other color spaces or other sampling factors.
The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
-----------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().
When you are done using the virtual arrays, call `jpeg_finish_decompress()` to release the array storage and return the decompression object to an idle state; or just call `jpeg_destroy()` if you don't need to reuse the object.

If you use a suspending data source, `jpeg_read_coefficients()` will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call `jpeg_read_coefficients()` to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call `jpeg_read_coefficients()` after the last `jpeg_finish_output()` call. The arrays will be available for your use until you call `jpeg_finish_decompress()`.

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* `jpeg_write_coefficients()`
* `jpeg_finish_compress()`
* Destroy or re-use compression object

`jpeg_write_coefficients()` is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to `cinfo.num_components`.

The virtual arrays need only have been requested, not realized, before `jpeg_write_coefficients()` is called. A side-effect of `jpeg_write_coefficients()` is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling `jpeg_write_coefficients()`. The data is actually written out when you call `jpeg_finish_compress()`; `jpeg_write_coefficients()` only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using `jpeg_copy_critical_parameters()`. This routine initializes all the compression parameters to default values (like `jpeg_set_defaults()`), then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety’s sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables’ individual sent_table flags, between calling jpeg_write_coefficients() and jpeg_finish_compress().

Progress monitoring
-------------------

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see cjpeg.c or djpeg.c.) Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as completed_passes + (pass_counter/pass_limit)

-------------------------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.

Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.

There are also alloc_sarray and alloc_barray routines that automatically
build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the
image's width, but not on its height, because the library ordinarily works
with "strip" buffers that are as wide as the image but just a few rows high.
Some operating modes (eg, two-pass color quantization) require full-image
buffers. Such buffers are treated as "virtual arrays": only the current strip
need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no
temporary files are used; virtual arrays are simply malloc()'d. Images bigger
than memory can be processed only if your system supports virtual memory.
The other memory manager back ends support temporary files of various flavors
and thus work in machines without virtual memory. They may also be useful on
Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for
its virtual arrays just big enough to stay within a "maximum memory" setting.
Your application can set this limit by setting cinfo->mem->max_memory_to_use
after creating the JPEG object. (Of course, there is still a minimum size for
the buffers, so the max-memory setting is effective only if it is bigger than
the minimum space needed.) If you allocate any large structures yourself, you
must allocate them before jpeg_start_compress() or jpeg_start_decompress() in
order to have them counted against the max memory limit. Also keep in mind
that space allocated with alloc_small() is ignored, on the assumption that
it's too small to be worth worrying about; so a reasonable safety margin
should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is
important to clean up the JPEG object properly to ensure that the temporary
files get deleted. (This is especially crucial with jmemdos.c, where the
"temporary files" may be extended-memory segments; if they are not freed,
DOS will require a reboot to recover the memory.) Thus, with these memory
managers, it's a good idea to provide a signal handler that will trap any
early exit from your program. The handler should call either jpeg_abort()
or jpeg_destroy() for any active JPEG objects. A handler is not needed with
jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either,
since the C library is supposed to take care of deleting files made with
tmpfile().

Memory usage
------------
Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
-----------------------------

A number of compile-time options are available by modifying jmorecfg.h.
The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The JG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, redefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[ ]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?
Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that:

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.
TurboJPEG Java Wrapper
========================

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpeg/turbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the “official” distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

Installation Directory
-----------------------

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/README
No license file was found, but licenses were detected in source scan.

/*
 * jdcolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.h
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; for more details.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolext.c
1.2.90/simd/jfss2fst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2fst.asm

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/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimddct.h

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/*
 * jcmarker.c
 *
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 *
 */

Found in path(s):
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No license file was found, but licenses were detected in source scan.
/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
*   virtual arrays;
* * control logic for swapping virtual arrays between main memory and
*   backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctflt.c

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/ *
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*
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* *
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* - Neither the name of the libjpeg-turbo Project nor the names of its
*   contributors may be used to endorse or promote products derived from this
*   software without specific prior written permission.
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* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

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/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

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License: BSD-style

libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

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* jsimd_arm.c

* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd_arm.c

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libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

These images are (c) there respective owners. You are granted full redistribution and publication rights on these images provided:

1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here. That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.
Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */
Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-iZMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/lh/libjpeg-turbo-1.2.90/jfdctfst.c
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 * wrrle.c
 *
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 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-iZMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/wrrle.c
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Found in path(s):
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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-iZMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/jimmxred.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-iZMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/simd/jcmcss2.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-iZMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/simd/jcclrs2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-iZMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbd/libjpeg-turbo-1.2.90/simd/jcjgys2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdclrss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrymmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcsamss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdcolss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsamss2-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2red-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jisss2red-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrammx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2flt-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsammmx.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2flt-64.asm
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsamss2-64.asm

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 *
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 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */
1.2768 libusbusmuxd 1.0.10-5.el7

1.2768.1 Available under license:

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Version 2.1, February 1999

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^L

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* /opt/ws_local/PERMITS_SQL/1091710466_1600571590.85/0/spring-context-support-4-0-2-release-sources-jar/org/springframework/cache/ehcache/EhCacheCacheManager.java
* /opt/ws_local/PERMITS_SQL/1091710466_1600571590.85/0/spring-context-support-4-0-2-release-sources-jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
* /opt/ws_local/PERMITS_SQL/1091710466_1600571590.85/0/spring-context-support-4-0-2-release-sources-jar/org/springframework/cache/jcache/ICacheCacheManager.java

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1.2771 jline-terminal-jna 3.5.2

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  jar/org/jboss/as/jpa/container/UnsynchronizedEntityManagerWrapper.java
* /opt/cola/permits/1110675043_1654023029.8949957/0/wildfly-jpa-14-0-1-final-sources-1-
  jar/org/jboss/as/jpa/container/SynchronizationTypeAccess.java
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  jar/org/jboss/as/jpa/validator/WildFlyProviderResolver.java
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* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
jar/org/jboss/as/jpa/subsystem/Element.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
jar/org/jboss/as/jpa/subsystem/Namespace.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
jar/org/jboss/as/jpa/subsystem/JPAExtension.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
jar/org/jboss/as/jpa/subsystem/JPASubSystemAdd.java

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jar/org/jboss/as/jpa/classloader/TempClassLoaderFactoryImpl.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
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* /opt/cola/permits/1110675043_1654023029.8949957/0/wildfly-jpa-14-0-1-final-sources-1-jar/org/jboss/as/jpa/processor/HibernateSearchProcessor.java

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  jar/org/jboss/ perspectives/SFSBCallStack.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
  jar/org/jboss/ perspectives/ PersistenceRefProcessor.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
  jar/org/jboss/ perspectives/ TempClassLoader.java
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  jar/org/jboss/ perspectives/ CreatedEntityManagers.java
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  jar/org/jboss/ perspectives/ CommonAttributes.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
  jar/org/jboss/ perspectives/ JtaManagerImpl.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
  jar/org/jboss/ perspectives/ TransactionUtil.java
* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/config/PersistenceUnitsInApplication.java
* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/config/PersistenceProviderDeploymentHolder.java
* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/interceptor/SFSBDestroyInterceptor.java
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* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/util/JPAServiceNames.java
* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/interceptor/SFSBPreCreateInterceptor.java
* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/processor/SBInvocationInterceptor.java
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* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/service/PersistenceUnitServiceImpl.java
* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/container/TransactionScopedEntityManager.java
* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/persistenceprovider/PersistenceProviderLoader.java
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* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/service/JPAService.java
* /opt/cola/permits/110675043_1654023029.8949957竞争-0-1-final-sources-1-jar/org/jboss/as/jpa/container/PersistenceUnitSearch.java
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* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
  jar/org/jboss/as/jpa/container/JPAUserTransactionListener.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
  jar/org/jboss/as/jpa/container/ExtendedPersistenceInheritance.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
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* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
  jar/org/jboss/as/jpa/service/JPAUserTransactionListenerService.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
  jar/org/jboss/as/jpa/config/JPADeploymentSettings.java
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-
jar/org/jboss/as/jpa/processor/PersistenceBeginInstallProcessor.java
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* /opt/cola/permits/1110675043_1654023029.8949957/0/wildfly-jpa-14-0-1-final-sources-1-jar/org/jboss/as/jpa/processor/PersistenceUnitServiceHandler.java
* /opt/cola/permits/1110675043_1654023029.8949957/0/wildfly-jpa-14-0-1-final-sources-1-jar/org/jboss/as/jpa/subsystem/JPADefinition.java

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  jar/org/jboss/as/jpa/processor/PersistenceUnitParseProcessor.java
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  INF/maven/org.wildfly/wildfly-jpa/pom.xml
* /opt/cola/permits/1110675043_1654023029.89499570/wildfly-jpa-14-0-1-final-sources-1-jar/schema/jboss-as-
  jpa_1.0.xsd
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* /opt/cola/permits/1110675043_1654023029.8949957/0/wildfly-jpa-14-0-1-final-sources-1-jar/org/jboss/as/jpa/processor/JpaAttachments.java

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  jar/org/apache/jasper/deploy/TagAttributeInfo.java
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jar/org/apache/jasper/deploy/TagInfo.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/deploy/FunctionInfo.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/deploy/TagFileInfo.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/deploy/TagLibraryInfo.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/deploy/TagLibraryValidatorInfo.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/deploy/TagVariableInfo.java

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* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/xmlparser/XMLString.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/xmlparser/XMLStringBuffer.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/xmlparser/EncodingMap.java
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* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/deploy/JspPropertyGroup.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/JasperLogger.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/JspConfig.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/TagLibraryInfoImpl.java
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/**
* Proprietary method to evaluate EL expressions. XXX - This method should
* go away once the EL interpreter moves out of JSTL and into its own
* project. For now, this is necessary because the standard machinery is too
* slow.
*
* @param expression
* The expression to be evaluated
* @param expectedType
* The expected resulting type
* @param pageContext
* The page context
* @param functionMap
* Maps prefix and name to Method
* @return The result of the evaluation
*\/

Found in path(s):
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* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/Mark.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/tagplugins/jstl/core/Url.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/JasperTagInfo.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/TextOptimizer.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/tomcat/util/scan/Jar.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/runtime/JspApplicationContextImpl.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/JasperTagInfo.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/ELContextWrapper.java
* /opt/cola/permits/1110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/tomcat/util/scan/Jar.java
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jar/org/apache/jasper/runtime/TagHandlerPool.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/tagplugins/jstl/core/Choose.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/tagplugins/jstl/core/Set.java
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* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/ELParser.java
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* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/runtime/ServletResponseWrapperInclude.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/DefaultErrorHandler.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/el/ELContextImpl.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/runtime/JspFactoryImpl.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/PageInfo.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/SmapUtil.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/tagplugins/jstl/Util.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/runtime/JspRuntimeLibrary.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/JDTCompiler.java
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* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/AttributeParser.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/util/FastRemovalDequeue.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/el/JspMethodNotFoundException.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/el/ELResolverImpl.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/el/JspValueExpression.java
* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/tomcat/util/scan/JarFileUrlNestedJar.java
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* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/PageDataImpl.java
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* /opt/cola/permits/110675917_1606843723.08/0/jastow-2-0-5-final-sources-1-jar/org/apache/jasper/compiler/ELInterpreterFactory.java
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enhancements to mutexes;
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similar to that implemented by V.Kliathcko;
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bug fixes.
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reimplemented pthread_once with the same form
as described by A. Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.

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###*-makefile.*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files

```
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

```
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
```

## Additional flags when building libraries and with threads

```
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

```
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

## Shared library options

```
LD_SOOPTIONS= -Wl,-Bsymbolic
```

## Shared object suffix

```
SO = so
```

## Non-shared intermediate object suffix

```
STATIC_O = ao
```

## Compilation rules

```
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## Dependency rules

```
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN_DEPS.c\) $< \n| sed \"s/$(\$*).o:\!/\!o: /g\" > $@:\n```

---

**Open Source Used In Data Center Network Manager 11.5(1) 32217**
## Versioned libraries rules

%.%($SO).%($SO_TARGET_VERSION_MAJOR): %.%($SO).%($SO_TARGET_VERSION)
$($RM) $@ && ln -s ${<F} $@
%.%($SO): %.%($SO).%($SO_TARGET_VERSION_MAJOR)
$($RM) $@ && ln -s {*F}.%($SO).%($SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bs symbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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Modified sept./oct. 2005 by Olivier Fourdan <fourdan@xfce.org>
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* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/el/core/ImportTag.java
* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/common/xml/ParseSupport.java
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* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/common/core/CatchTag.java
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* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/org/apache/taglibs/standard/tag/el/fmt/MessageTag.java
* /opt/cola/permits/1177945123_1654022942.3547654/0/jstl-1-2-sources-1-jar/javax/servlet/jsp/jstl/sql/SQLExecutionTag.java
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.2794 jboss-transaction-api 1.1.1.Final

1.2794.1 Available under license :
No license file was found, but licenses were detected in source scan.

<name>Common Development and Distribution License</name>
<name>GNU General Public License, Version 2 with the Classpath Exception</name>

Found in path(s):
* /opt/cola/permits/1110674899_1654022895.343967/0/jboss-transaction-api-1-2-spec-1-1-1-final-sources-3-
jar/META-INF/maven/org.jboss.spec.jboss.transaction/api_1.2_spec/pom.xml

1.2795 compiler 0.9.2

1.2795.1 Available under license :
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1.2796 file 5.11 36.el7

1.2796.1 Available under license:

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1.2797 perl-time-hires 1.9725-3.el7
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/*
 * pport.h -- Perl/Pollution/Portability Version 3.13
 *
 * Automatically created by Devel::PPPort running under perl 5.008008.
 *
 * Do NOT edit this file directly! -- Edit PPORT_pm.PL and the
 * includes in parts/inc/ instead.
 *
 * Use 'perldoc pport.h' to view the documentation below.
 *
 */

=pod
=head1 NAME
ppport.h - Perl/Pollution/Portability version 3.13

=head1 SYNOPSIS

perl pport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.
Manually set the diff program and options to use. The default is to use C\Text::Diff, when installed, and output unified context diffs.

Tell F\ppport.h to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F\ppport.h if you intend to be backward compatible only down to a certain Perl version.

Usually, F\ppport.h will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F\ppport.h to leave C++ comments untouched.

Be quiet. Don't print anything except fatal errors.

Don't output any diagnostic messages. Only portability alerts will be printed.

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.
Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```plaintext
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```plaintext
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radixGLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
</tbody>
</table>
newSVpvn_share()  NEED_newSVpvn_share  NEED_newSVpvn_share_GLOBAL
sv_2pv_flags()   NEED_sv_2pv_flags  NEED_sv_2pv_flags_GLOBAL
sv_2pbyte()      NEED_sv_2pbyte   NEED_sv_2pbyte_GLOBAL
sv_catpvf_mg()   NEED_sv_catpvf_mg NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_pvn_force_flags() NEED_sv_pvn_force_flags  NEED_sv_pvn_force_flags_GLOBAL
sv_setpvf_mg()   NEED_sv_setpvf_mg  NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
vload_module()   NEED_vload_module  NEED_vload_module_GLOBAL
vnewSVpvf()      NEED_vnewSVpvf   NEED_vnewSVpvf_GLOBAL
warner()         NEED_warner  NEED_warner_GLOBAL

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

    #define DPPP_NAMESPACE MyOwnNamespace_
    #include "ppport.h"

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions
for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/ /

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2007, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.13;

my %opt = (
quiet => 0,
diag  => 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter  => 1,
strip  => 0,
version => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = "\[\t\]"; # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.\*';
my $cce = '\*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
  print "This is $0 $VERSION.\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if ($@) {
    die "Invalid version number format: '$opt{'compat-version'}'\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)|([^|]*)|(^[^|]*)|(\w*)$/
  ? ($1 => {
    ($2                  ? ( base     => $2 ) : ()),
    ($3                  ? ( todo     => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
  })
  : die "invalid spec: $_" } qw(
AvFILLp|5.004050||p
AvFILL||
CLASS||
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER||
ERRSV|5.004050||p
EXTERN||
EXTERN_C|5.005000||p
F0convert||
FREETMPS||
GIMME_V|5.004000
GIMME||
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY
G_DISCARD
G_EVAL
G_NOARGS
G_SCALAR
G_VOID
GetVars
GvSV
Gv_AMupdate
HEf_SVKEY
HeHASH
HeKEY
HeKLEN
HePV
HeSVKEY_force
HeSVKEY_set
HeSVKEY
HeVAL
HvNAME
INT2PTR
IN_LOCALE_COMPILETIME
IN_LOCALE_RUNTIME
IN LOCALE
IN_PERL_COMPILETIME
IS_NUMBER_GREATER_THAN_UV_MAX
ISNUMBER INFINITY
IS_NUMBER_IN_UV
IS_NUMBER_NAN
IS_NUMBER_NEG
IS_NUMBER_NOT_INT
IVSIZE
IVTYPE
IVdf
LEAVE
LVRET
MARK
MULTICALL
MY_CXT_CLONE
MY_CXT_INIT
MY_CXT
MoveD
NOOP
NUM2PTR
NVTYPE
NVef
NVff
NVgf
Newxc[5.009003]|p
Newxz[5.009003]|p
Newx[5.009003]|p
Nullav|||p
Nullch|||p
Nullcv|||p
Nullhv|||p
Nullsv|||p
ORIGMARK|||p
PAD_BASE_SV|||p
PAD_CLONE_VARS|||p
PAD_COMPNAME_FLAGS|||p
PAD_COMPNAME_GEN_set|||p
PAD_COMPNAME_GEN|||p
PAD_COMPNAME_OURSTASH|||p
PAD_COMPNAME_PV|||p
PAD_COMPNAME_TYPE|||p
PAD_RESTORE_LOCAL|||p
PAD_SAVE_LOCAL|||p
PAD_SAVE_SETNULLPAD|||p
PAD_SETSV|||p
PAD_SET_CUR_NOSAVE|||p
PAD_SET_CUR|||p
PAD_SV|||p
PAD_SV|||p
PERL_ABS[5.008001]|p
PERL_BCDVERSION[5.009005]|p
PERL_GCC_BRACE_GROUPS_FORBIDDEN[5.008001]|p
PERL_HASH[5.004000]|p
PERL_INT_MAX[5.004000]|p
PERL_INT_MIN[5.004000]|p
PERL_LONG_MAX[5.004000]|p
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sv_catpvn_nomg[5.007002]|p
sv_catpvn||
sv_catpvs[5.009003]|p
sv_catpv||
sv_catsv_flags[5.007002]
sv_catsv_mg[5.004050]|p
sv_catsv_nomg[5.007002]|p
sv_catsv||
sv_catxmlpvn||
sv_catxmlsv||
sv_chop||
sv_clean_all||
sv_clean_objs||
sv_clear||
sv_cmp_locale[5.004000]
sv_cmp||
sv_collxfrm||
sv_compile_2op[5.008001]
sv_copypv[5.007003]
sv_dec||
sv_del_backref||
sv_derived_from[5.004000]
sv_does[5.009004]
sv_dump||
sv_dup||
sv_eq||
sv_exp_grow||
sv_force_normal_flags[5.007001]
sv_force_normal[5.006000]
sv_free2||
sv_free_arenas||
sv_free||
sv_gets[5.004000]
sv_grow||
sv_incmp||
sv_inc||
sv_insert||
sv_isa||
sv_setpvf_nocontext vn
sv_setpvf [5.004000] v
sv_setpviv_mg [5.008001]
sv_setpviv [5.008001]
sv_setpvn_mg [5.004050] p
sv_setpvn
sv_setpv [5.009004] p
sv_setpv
sv_setref_iv
sv_setref_nv
sv_setref_pvn
sv_setref_uv [5.007001]
sv_setsv_cow
sv_setsv_flags [5.007002]
sv_setsv_mg [5.004050]
sv_setsv_nomg [5.007002] p
sv_setsv
sv_setuv_mg [5.004050] p
sv_setuv [5.004000] p
sv_tainted [5.004000]
sv_true [5.005000]
sv_unglob
sv_unicode [5.007003]
sv_unmagic
sv_unref_flags [5.007001]
sv_unref
sv_untaint [5.004000]
sv_upgrade
sv_usepvn_flags [5.009004]
sv_usepvn_mg [5.004050] p
sv_usepvn
sv_utf8_decode [5.006000]
sv_utf8_downgrade [5.006000]
sv_utf8_encode [5.006000]
sv_utf8_upgrade_flags [5.007002]
sv_utf8_upgrade [5.007001]
sv_uv [5.005000] p
sv_vcatpvf_mg [5.006000] [5.004000] p
sv_vcatpvfn
sv_vcatpvf [5.006000] [5.004000] p
sv_vsetpvf_mg [5.006000] [5.004000] p
sv_vsetpvfn
sv_vsetpv [5.006000] [5.004000] p
sv_xmlpeek
svtype
swallow_bom
swash_match_buff||
swash_fetch|5.007002|
swash_get||
swash_init|5.006000|
sys_intern_clear||
sys_intern_dup||
sys_intern_init||
taint_env||
taint_proper||
tmps_grow|5.006000|
toLOWER||
toUPPER||
to_byte_substr||
to_uni_fold|5.007003|
to_uni_lower_lc|5.006000|
to_uni_lower|5.007003|
to_uni_title_lc|5.006000|
to_uni_title|5.007003|
to_uni_upper_lc|5.006000|
to_uni_upper|5.007003|
to_utf8_case|5.007003|
to_utf8_fold|5.007003|
to_utf8_lower|5.007003|
to_utf8_substr||
to_utf8_title|5.007003|
to_utf8_upper|5.007003|
token_free||
token_getmad||
tokenize_use||
tokeq||
tokereport||
too_few_arguments||
too_many_arguments||
uiv_2buf|n
unlnk||
unpack_rec||
unpack_str|5.007003|
unpackstring|5.008001|
unshare_hek_or_pvn||
unshare_hek||
unsharepvn|5.004000|
unwind_handler_stack||
update_debugger_info||
upg_version|5.009005|
usage||
utf16_to_utf8_reversed|5.006001|
utf16_to_utf8|5.006001|
utf8_distance|5.006000|
if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ", 
.
        "", format_version($API{$f}{todo}), ",un";
  }
  exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api {
  my $code = shift;
  $code =~ s{
    /(?:[^*]+[^*]+.*+)(?:\$ccs)[^*]+\*/ | /
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if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $define;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
push @{$depends{$1}}, map { s/\s+//g; $_ } split /,/, $2;
}
$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}
for (values %depends) {
my %s;
$_ = [sort grep !$s{$_}++, @$_];
}

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if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!/^/(.*)/!/ ? $1 : "^\Q$opt{'api-info'}\E/$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "u=== $f ===u
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base:
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo:
            print "Support needs to be explicitly requested by NEED_$f:
            print "Depends on: ", join(’,’, @{$depends{$f}}), ",\n            print "$fHints{$f}" if exists $fHints{$f};
            print "$fWARNINGS:$fWarnings{$f}" if exists $fWarnings{$f};
            $info++;
        }
        print "No portability information available:\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}' ";
    print "\n    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'  if exists $depends{$f};
        push @flags, 'hint'    if exists $fHints{$f};
        push @flags, 'warning' if exists $fWarnings{$f};
        my $flags = @flags ? [join(’,’, @flags)] : "";
        print "$f$flags\n";
    }
    exit 0;
}

my @files;
my @srcext = qw(.xs .c .h .cc -c.inc -xs.inc);
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;

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my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {

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$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

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for $filename (@files) {
exists $files{$filename} or next;

info("=== Analyzing $filename ===");

my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
        my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|\[\s\s\s]*\2}{'aTHX' . ($2 eq ')' ? 'aTHX_' : 'aTHX' . $2 )ge});
        if ($changes) {
            warning("Doesn't pass interpreter argument aTHX to Perl_$func");
            $file{changes} += $changes;
        }
    }
    else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*aTHX_?\)\s*}{'$func$1'}g);
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        }
        else {
            diag("Uses $func");
        }
        $warnings += hint($func);
    }
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {

for $filename (@files) {
exists $files{$filename} or next;

info("=== Analyzing $filename ===");

my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
        my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|\[\s\s\s]*\2}{'aTHX' . ($2 eq ')' ? 'aTHX_' : 'aTHX' . $2 )ge});
        if ($changes) {
            warning("Doesn't pass interpreter argument aTHX to Perl_$func");
            $file{changes} += $changes;
        }
    }
    else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*aTHX_?\)\s*}{'$func$1'}g);
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        }
        else {
            diag("Uses $func");
        }
        $warnings += hint($func);
    }
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}->{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}->{$func} && $file{needs}->{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}->{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}->{$func}) {
        if ($file{needs}->{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}->{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}->{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    }
}
unless (exists $file{"needed_$type")}{func})
    
    if ($type eq 'global') {
        diag("Files [@ {$global{needs}{func}] need $func, adding global request");
    } else {
        diag("File needs $func, adding static request");
    } $pp .= "#define NEED_$func$suffix\n";

} if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+/\S1Spp/m)) { 
    $pp = ";
    $file{changes}++;
} 

unless ($file{has_inc_ppport}) { 
    diag("Needs to include 'ppport'");
    $pp .= qq(#include "$ppport\n")
} if ($pp) {
    $file{changes} += ($c =~ s/\^/\$HS*?\$HS*define\$HS+NEED_\w+/\S1Spp/m) || ($c =~ s/\^/\$HS*?\$HS*include.*\Q$ppport\E/\S1Spp/m) || ($c =~ s/\^/\$HS*?\$HS*include.*XSUB.*\s*?\E/\S1Spp/m) || ($c =~ s/\^/\$pp/);
} else { 
    if ($file{has_inc_ppport}) {
        diag("No need to include 'ppport'");
        $file{changes} += ($c =~ s/\^/\$HS*?\$HS*include.*\Q$ppport\E.*?\$LF//m);
    } 
} 

# put back in our C comments
my $six;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $six (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$six] =~ s!//!!) {
        $cppc++;
        $file{changes} += $c =~ s/\$rcss\$six\$rcce/\$ccs\$ccom[$six] \$cce/;
    } else {
        $c =~ s/\$rcss\$six\$rcce/\$ccom[$six]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';  
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';  
my $warn = $warnings ? " ($warnings warning$s)" : '';  
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of 'filename'");
        } else {
            local *F;
            if (open F,">$newfile") {
                info("Writing copy of 'filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open $newfile' for writing: $!");
            }
        }
    } else {
        error("Cannot open $newfile' for writing: $!");
    }
} elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open $opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(*PATCH, $filename, $c);
    } else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
}
else {
    my $s = $file{changes} == 1 ? ": " : ":
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_; return @$eq" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }
    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    }
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }
    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }
    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }
print F $diff;
}

sub run_diff
{
my($prog, $file, $str) = @_; 
my $tmp = 'dppptemp';
my $suf = 'aaa';
my $diff = "";
local *F;

while (-e "$tmp.$suf") { $suf++ }
$tmp = "$tmp.$suf";

if (open F, ">$tmp") {
print F $str;
close F;

if (open F, "$prog $file $tmp |") {
while (<F>) {
$s/Q$tmp/E/$file.patched/;
$diff .= $_;
}
close F;
unlink $tmp;
return $diff;
}

unlink $tmp;
}
else {
error("Cannot open '$tmp' for writing: $! ");
}

return undef;
}

sub rec_depend
{
my($func, $seen) = @_; 
return () unless exists $depends{$func};
$seen = %{ $seen||{} }; 
return () if $seen->{$func}++;
my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @/{$depends{$func}};
}
sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+\.(\d+)\.(\d+)$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.\d+/) {
        die "cannot parse version '$ver'\n";
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'\n";
        }
    }

    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.\d{3}\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'\n";
        }
        $s /= 10;
    }

    $ver = sprintf "%.03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.%02d", $s;

    return $ver;
return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
p
print "*** ", @_, "\n";
}

sub error
{
print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} &amp; &amp; !$given_warnings{$func}++) {
  my $warn = $warnings{$func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func\n", $warn;
  $rv++;
}
if ($opt{hints} &amp; &amp; exists $hints{$func} &amp; &amp; !$given_hints{$func}++) {
  my $hint = $hints{$func};
  $hint =~ s/\s+//mg;
  print "--- hint for $func ---\n", $hint;
}
$rv;
}
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{
  /(?::\{[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | \[^
\]*
| ( "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)'
| ($HS+) )
  { defined $2 ? '' : ($1 || '') }gsex;
$c =~ s!\s+!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!

print OUT "$pl$c"
exit 0;
}

__DATA__

*Found in path(s):
No license file was found, but licenses were detected in source scan.

---
abstract: 'High resolution alarm, sleep, gettimeofday, interval timers'
author:
  - 'Jarkko Hietaniemi <jhi@iki.fi>'
built_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112621'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Time-HiRes
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  DynaLoader: 0
Exporter: 0
ExtUtils::MakeMaker: 0
Test::More: 0.82
strict: 0
version: 1.9725

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1000848959_1646171515.33/0/perl-Time-HiRes-1.9725-3.el7.src.rpm-cosi-expand-archive-BZgHOCfH/perl-Time-HiRes.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

Time::HiRes - High resolution alarm, sleep, gettimeofday, interval timers

=head1 SYNOPSIS

use Time::HiRes qw( usleep ualarm gettimeofday tv_interval nanosleep
                   clock_gettime clock_getres clock_nanosleep clock
                   stat );

usleep ($microseconds);
nanosleep ($nanoseconds);

ualarm ($microseconds);
ualarm ($microseconds, $interval_microseconds);

$t0 = [gettimeofday];
($seconds, $microseconds) = gettimeofday;

$elapsed = tv_interval ( $t0, [ $seconds, $microseconds ]);  
$elapsed = tv_interval ( $t0, [ gettimeofday ]);  
$elapsed = tv_interval ( $t0 );

use Time::HiRes qw ( time alarm sleep );

$snow_fractions = time;
sleep ($floating_seconds);
alarm ($floating_seconds);
alarm ($floating_seconds, $floating_interval);
use Time::HiRes qw( setitimer getitimer );

setitimer ($which, $floating_seconds, $floating_interval );
getitimer ($which);

use Time::HiRes qw( clock_gettime clock_getres clock_nanosleep
                   ITIMER_REAL ITIMER_VIRTUAL ITIMER_PROF ITIMER_REALPROF );

$realtime   = clock_gettime(CLOCK_REALTIME);
$resolution = clock_getres(CLOCK_REALTIME);

clock_nanosleep(CLOCK_REALTIME, 1.5e9);
clock_nanosleep(CLOCK_REALTIME, time()*1e9 + 10e9, TIMER_ABSTIME);

my $ticktock = clock();

use Time::HiRes qw( stat );

my @stat = stat("file");
my @stat = stat(FH);

=head1 DESCRIPTION

The C<Time::HiRes> module implements a Perl interface to the
C<usleep>, C<nanosleep>, C<ualarm>, C<gettimeofday>, and
C<setitimer>/C<getitimer> system calls, in other words, high
resolution time and timers. See the L</EXAMPLES> section below and the
test scripts for usage; see your system documentation for the
description of the underlying C<nanosleep> or C<usleep>, C<ualarm>,
C<gettimeofday>, and C<setitimer>/C<getitimer> calls.

If your system lacks C<gettimeofday()> or an emulation of it you don’t
get C<gettimeofday()> or the one-argument form of C<tv_interval()>.
If your system lacks all of C<nanosleep()>, C<usleep()>,
C<select()>, and C<poll>, you don’t get C<Time::HiRes::usleep()>,
C<Time::HiRes::nanosleep()>, or C<Time::HiRes::sleep()>.
If your system lacks both C<ualarm()> and C<setitimer()> you don’t get
C<Time::HiRes::ualarm()> or C<Time::HiRes::alarm()>.

If you try to import an unimplemented function in the C<use> statement
it will fail at compile time.

If your subsecond sleeping is implemented with C<nanosleep()> instead
of C<usleep()> , you can mix subsecond sleeping with signals since
C<nanosleep()> does not use signals. This, however, is not portable,
and you should first check for the truth value of
C<&Time::HiRes::d_nanosleep> to see whether you have nanosleep, and
then carefully read your C<nanosleep()> C API documentation for any
peculiarities.

If you are using C<nanosleep> for something else than mixing sleeping with signals, give some thought to whether Perl is the tool you should be using for work requiring nanosecond accuracies.

Remember that unless you are working on a I<hard realtime> system, any clocks and timers will be imprecise, especially so if you are working in a pre-emptive multiuser system. Understand the difference between I<wallclock time> and process time (in UNIX-like systems the sum of I<user> and I<system> times). Any attempt to sleep for X seconds will most probably end up sleeping B<more> than that, but don't be surprised if you end up sleeping slightly B<less>.

The following functions can be imported from this module.
No functions are exported by default.

=over 4

=item gettimeofday ()

In array context returns a two-element array with the seconds and microseconds since the epoch. In scalar context returns floating seconds like C<Time::HiRes::time()> (see below).

=item usleep ( $useconds )

Sleeps for the number of microseconds (millionths of a second) specified. Returns the number of microseconds actually slept.
Can sleep for more than one second, unlike the C<usleep> system call.
Can also sleep for zero seconds, which often works like a I<thread yield>.
See also C<Time::HiRes::usleep()>, C<Time::HiRes::sleep()>, and C<Time::HiRes::clock_nanosleep()>.

Do not expect usleep() to be exact down to one microsecond.

=item nanosleep ( $nanoseconds )

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept (accurate only to microseconds, the nearest thousand of them). Can sleep for more than one second. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::sleep()>, C<Time::HiRes::usleep()>, and C<Time::HiRes::clock_nanosleep()>.

Do not expect nanosleep() to be exact down to one nanosecond.
Getting even accuracy of one thousand nanoseconds is good.
=item ualarm ( $useconds [, $interval_useconds ] )

Issues a C<ualarm> call; the C<$interval_useconds> is optional and will be zero if unspecified, resulting in C<alarm>-like behaviour.

Returns the remaining time in the alarm in microseconds, or C<undef> if an error occurred.

ualarm(0) will cancel an outstanding ualarm().

Note that the interaction between alarms and sleeps is unspecified.

=item tv_interval

tv_interval ( $ref_to_gettimeofday [, $ref_to_later_gettimeofday] )

Returns the floating seconds between the two times, which should have been returned by C<gettimeofday()>. If the second argument is omitted, then the current time is used.

=item time ()

Returns a floating seconds since the epoch. This function can be imported, resulting in a nice drop-in replacement for the C<time> provided with core Perl; see the L</EXAMPLES> below.

**NOTE 1**: This higher resolution timer can return values either less or more than the core C<time()>, depending on whether your platform rounds the higher resolution timer values up, down, or to the nearest second to get the core C<time()>, but naturally the difference should be never more than half a second. See also L</clock_getres>, if available in your system.

**NOTE 2**: Since Sunday, September 9th, 2001 at 01:46:40 AM GMT, when the C<time()> seconds since epoch rolled over to 1_000_000_000, the default floating point format of Perl and the seconds since epoch have conspired to produce an apparent bug: if you print the value of C<Time::HiRes::time()> you seem to be getting only five decimals, not six as promised (microseconds). Not to worry, the microseconds are there (assuming your platform supports such granularity in the first place). What is going on is that the default floating point format of Perl only outputs 15 digits. In this case that means ten digits before the decimal separator and five after. To see the microseconds you can use either C<printf>/C<sprintf> with C<"%.6f">, or the C<gettimeofday()> function in list context, which will give you the seconds and microseconds as two separate values.

=item sleep ( $floating_seconds )
Sleeps for the specified amount of seconds. Returns the number of seconds actually slept (a floating point value). This function can be imported, resulting in a nice drop-in replacement for the C<sleep> provided with perl, see the L</EXAMPLES> below.

Note that the interaction between alarms and sleeps is unspecified.

=item alarm ( $floating_seconds [, $interval_floating_seconds ] )

The C<SIGALRM> signal is sent after the specified number of seconds. Implemented using C<setitimer()> if available, C<ualarm()> if not. The C<$interval_floating_seconds> argument is optional and will be zero if unspecified, resulting in C<alarm()-like behaviour. This function can be imported, resulting in a nice drop-in replacement for the C<alarm> provided with perl, see the L</EXAMPLES> below.

Returns the remaining time in the alarm in seconds, or C<undef> if an error occurred.

B<NOTE 1>: With some combinations of operating systems and Perl releases C<SIGALRM> restarts C<select>(), instead of interrupting it. This means that an C<alarm()> followed by a C<select()> may together take the sum of the times specified for the C<alarm()> and the C<select>(), not just the time of the C<alarm>().

Note that the interaction between alarms and sleeps is unspecified.

=item setitimer ( $which, $floating_seconds [, $interval_floating_seconds ] )

Start up an interval timer: after a certain time, a signal ($which) arrives, and more signals may keep arriving at certain intervals. To disable an "timer", use C<$floating_seconds> of zero. If the C<$interval_floating_seconds> is set to zero (or unspecified), the timer is disabled B<after> the next delivered signal.

Use of interval timers may interfere with C<alarm()>, C<sleep()>, and C<usleep()>.

In scalar context, the remaining time in the timer is returned.

In list context, both the remaining time and the interval are returned.

There are usually three or four interval timers (signals) available: the C<$which> can be C<ITIMER_REAL>, C<ITIMER_VIRTUAL>, C<ITIMER_PROF>, or C<ITIMER_REALPROF>. Note that which ones are available depends: true UNIX platforms usually have the first three, but only Solaris seems to
have C<ITIMER_REALPROF> (which is used to profile multithreaded programs). Win32 unfortunately does not have interval timers.

C<ITIMER_REAL> results in C<alarm()>-like behaviour. Time is counted in I<real time>; that is, wallclock time. C<SIGALRM> is delivered when the timer expires.

C<ITIMER_VIRTUAL> counts time in (process) I<virtual time>; that is, only when the process is running. In multiprocessor/user/CPU systems this may be more or less than real or wallclock time. (This time is also known as the I<user time>.) C<SIGVTALRM> is delivered when the timer expires.

C<ITIMER_PROF> counts time when either the process virtual time or when the operating system is running on behalf of the process (such as I/O). (This time is also known as the I<system time>.) (The sum of user time and system time is known as the I<CPU time>.) C<SIGPROF> is delivered when the timer expires. C<SIGPROF> can interrupt system calls.

The semantics of interval timers for multithreaded programs are system-specific, and some systems may support additional interval timers. For example, it is unspecified which thread gets the signals. See your C<setitimer()> documentation.

=item getitimer ( $which )

Return the remaining time in the interval timer specified by C<$which>.

In scalar context, the remaining time is returned.

In list context, both the remaining time and the interval are returned. The interval is always what you put in using C<setitimer>().

=item clock_gettime ( $which )

Return as seconds the current value of the POSIX high resolution timer specified by C<$which>. All implementations that support POSIX high resolution timers are supposed to support at least the C<$which> value of C<CLOCK_REALTIME>, which is supposed to return results close to the results of C<gettimeofday>, or the number of seconds since 00:00:00:00 January 1, 1970 Greenwich Mean Time (GMT). Do not assume that CLOCK_REALTIME is zero, it might be one, or something else. Another potentially useful (but not available everywhere) value is C<CLOCK_MONOTONIC>, which guarantees a monotonically increasing time value (unlike time() or gettimeofday(), which can be adjusted). See your system documentation for other possibly supported values.

=item clock_gettime ( $which )
Return as seconds the resolution of the POSIX high resolution timer specified by C<$which> . All implementations that support POSIX high resolution timers are supposed to support at least the C<$which> value of C<CLOCK_REALTIME> , see L</clock_gettime> .

=item clock_nanosleep ( $which, $nanoseconds, $flags = 0)

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept. The $which is the "clock id", as with clock_gettime() and clock_getres(). The flags default to zero but C<TIMER_ABSTIME> can specified (must be exported explicitly) which means that C<$nanoseconds> is not a time interval (as is the default) but instead an absolute time. Can sleep for more than one second. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::sleep()>, C<Time::HiRes::usleep()>, and C<Time::HiRes::nanosleep()>.

Do not expect clock_nanosleep() to be exact down to one nanosecond. Getting even accuracy of one thousand nanoseconds is good.

=item clock()

Return as seconds the I<process time> (user + system time) spent by the process since the first call to clock() (the definition is B<not> "since the start of the process", though if you are lucky these times may be quite close to each other, depending on the system). What this means is that you probably need to store the result of your first call to clock(), and subtract that value from the following results of clock().

The time returned also includes the process times of the terminated child processes for which wait() has been executed. This value is somewhat like the second value returned by the times() of core Perl, but not necessarily identical. Note that due to backward compatibility limitations the returned value may wrap around at about 2147 seconds or at about 36 minutes.

=item stat

=item stat FH

=item stat EXPR

As L<perlfunc/stat> but with the access/modify/change file timestamps in subsecond resolution, if the operating system and the filesystem both support such timestamps. To override the standard stat():

use Time::HiRes qw(stat);
Test for the value of &Time::HiRes::d_hires_stat to find out whether the operating system supports subsecond file timestamps; a value larger than zero means yes. There are unfortunately no easy ways to find out whether the filesystem supports such timestamps. UNIX filesystems often do; NTFS does; FAT doesn't (FAT timestamp granularity is 2 seconds).

A zero return value of &Time::HiRes::d_hires_stat means that Time::HiRes::stat is a no-op passthrough for CORE::stat(), and therefore the timestamps will stay integers. The same thing will happen if the filesystem does not do subsecond timestamps, even if the &Time::HiRes::d_hires_stat is non-zero.

In any case do not expect nanosecond resolution, or even a microsecond resolution. Also note that the modify/access timestamps might have different resolutions, and that they need not be synchronized, e.g.

```cpp
write
stat # t1
read
stat # t2
```

the access time stamp from t2 need not be greater-than the modify time stamp from t1: it may be equal or less.

=back

=head1 EXAMPLES

use Time::HiRes qw(usleep ualarm gettimeofday tv_interval);

$microseconds = 750_000;
usleep($microseconds);

# signal alarm in 2.5s & every .1s thereafter
ualarm(2.5_000_000, 100_000);
# cancel that ualarm
ualarm(0);

# get seconds and microseconds since the epoch
($s, $usec) = gettimeofday();

# measure elapsed time
# (could also do by subtracting 2 gettimeofday return values)
$t0 = [gettimeofday];
# do bunch of stuff here
$t1 = gettimeofday;
# do more stuff here
$t0_{-}t1 = tv\_interval \$t0, \$t1;

$elapsed = tv\_interval ($t0, gettimeofday);
$elapsed = tv\_interval ($t0); # equivalent code

# replacements for time, alarm and sleep that know about
# floating seconds
#
use Time::HiRes;
$now\_fractions = Time::HiRes::time;
Time::HiRes::sleep (2.5);
Time::HiRes::alarm (10.6666666);

use Time::HiRes qw ( time alarm sleep );
$now\_fractions = time;
sleep (2.5);
alarm (10.6666666);

# Arm an interval timer to go off first at 10 seconds and
# after that every 2.5 seconds, in process virtual time
use Time::HiRes qw ( setitimer ITIMER\_VIRTUAL time );

$SIG{VTALRM} = sub { print time, "\n" };    
setitimer(ITIMER\_VIRTUAL, 10, 2.5);

use Time::HiRes qw( clock\_gettime clock\_getres CLOCK\_REALTIME );
# Read the POSIX high resolution timer.
my $high = clock\_getres(CLOCK\_REALTIME);
# But how accurate we can be, really?
my $reso = clock\_getres(CLOCK\_REALTIME);

use Time::HiRes qw( clock\_nanosleep TIMER\_ABSTIME );
clock\_nanosleep(CLOCK\_REALTIME, 1e6);
clock\_nanosleep(CLOCK\_REALTIME, 2e9, TIMER\_ABSTIME);

use Time::HiRes qw( clock );
my $clock0 = clock();
... # Do something.
my $clock1 = clock();
my $clockd = $clock1 - $clock0;

use Time::HiRes qw( stat );
my (Satime, $mtime, $ctime) = (stat("istics"))[8, 9, 10];
In addition to the perl API described above, a C API is available for extension writers. The following C functions are available in the modglobal hash:

<table>
<thead>
<tr>
<th>name</th>
<th>C prototype</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time::NVtime</td>
<td>double (*)()</td>
</tr>
<tr>
<td>Time::U2time</td>
<td>void (*)(pTHX_ UV ret[2])</td>
</tr>
</tbody>
</table>

Both functions return equivalent information (like C<gettimeofday>) but with different representations. The names C<NVtime> and C<U2time> were selected mainly because they are operating system independent. (C<gettimeofday> is Unix-centric, though some platforms like Win32 and VMS have emulations for it.)

Here is an example of using C<NVtime> from C:

```c
double (*myNVtime)(); /* Returns -1 on failure. */
SV **svp = hv_fetch(PL_modglobal, "Time::NVtime", 12, 0);
if (!svp)         croak("Time::HiRes is required");
if (!SvIOK(*svp)) croak("Time::NVtime isn't a function pointer");
myNVtime = INT2PTR(double(*)(), SvIV(*svp));
printf("The current time is: %f\n", (*myNVtime)());
```

### DIAGNOSTICS

#### useconds or interval more than ...

In ualarm() you tried to use number of microseconds or interval (also in microseconds) more than 1_000_000 and setitimer() is not available in your system to emulate that case.

#### negative time not invented yet

You tried to use a negative time argument.

#### internal error: useconds < 0 (unsigned ... signed ...)

Something went horribly wrong-- the number of microseconds that cannot become negative just became negative. Maybe your compiler is broken?

#### useconds or uinterval equal to or more than 1000000

In some platforms it is not possible to get an alarm with subsecond resolution and later than one second.
Some calls simply aren't available, real or emulated, on every platform.

CAVEATS

Notice that the core `time()` maybe rounding rather than truncating. What this means is that the core `time()` may be reporting the time as one second later than `gettimeofday()` and `Time::HiRes::time()`.

Adjusting the system clock (either manually or by services like ntp) may cause problems, especially for long running programs that assume a monotonously increasing time (note that all platforms do not adjust time as gracefully as UNIX ntp does). For example in Win32 (and derived platforms like Cygwin and MinGW) the `Time::HiRes::time()` may temporarily drift off from the system clock (and the original time()) by up to 0.5 seconds. `Time::HiRes` will notice this eventually and recalibrate.

Note that since `Time::HiRes` 1.77 the `clock_gettime(CLOCK_MONOTONIC)` might help in this (in case your system supports `CLOCK_MONOTONIC`).

Some systems have APIs but not implementations: for example QNX and Haiku have the interval timer APIs but not the functionality.

SEE ALSO

Perl modules `L<BSD::Resource>`, `L<Time::TAI64>`,

Your system documentation for `clock`, `clock_gettime`, `clock_getres`, `clock_nanosleep`, `clock_settime`, `getitimer`, `gettimeofday`, `setitimer`, `sleep`, `stat`, `ualarm`.

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=cut

Found in path(s):
* /opt/cola/permits/1000848959_1646171515.33/0/perl-Time-HiRes-1.9725-3.el7.src.rpm-cosi-expand-archive-
BZgHOcfH/Time-HiRes-1.9725.tar.gz-cosi-expand-archive-jECbbpLO/Time-HiRes-1.9725/HiRes.pm
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Time::HiRes module: High resolution time, sleep, and alarm.

Implement usleep, ualarm, and gettimeofday for Perl, as well as wrappers
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Note: the tests of this module are by definition time sensitive: under
heavy loads the tests may fail. Reasonable relaxed criteria are being
used for the tests but sometimes you may still see transient failures.
Rerun the tests (make test) a couple of times, preferably with less
load on the testing machine.

Also, older versions of Perl do not support `-nolinenumbers` on the XSUBPP
command, however, 5.004_03 requires it (on my box, anyway) since the #line
generating code in XSUBPP appears to have problems with #ifdef’d .xs code.
If xsubpp complains about usage when you do a make, look at the top of
the Makefile.PL and comment out the "$XSOPT=" line. Or upgrade to a
newer version of Perl.

POD documentation is embedded.


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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)
under the BSD-license.

The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.
The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See http://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

WordBreakTestUnicode_.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See http://unicode.org/copyright.html for more details.

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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which can be obtained from

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or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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Lennart Poettering, 2009

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2.1.2.RELEASE

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1.2805 microcode-ctl 2.1-53.7.el7_7

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jar/org/jboss/as/jmx/logging/JmxLogger.java

1.2809 libjpeg-turbo 1.2.90 8.el7

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1.2809.2 Available under license:
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README for release 6b of 27-Mar-1998
==========================================

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP
=========================

This file contains the following sections:

OVERVIEW            General description of JPEG and the IJG software.
LEGAL ISSUES        Copyright, lack of warranty, terms of distribution.
REFERENCES          Where to learn more about JPEG.
ARCHIVE LOCATIONS   Where to find newer versions of this software.
RELATED SOFTWARE    Other stuff you should get.
FILE FORMAT WARS    Software *not* to get.
TO DO               Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc       How to configure and install the IJG software.
usage.doc         Usage instructions for cjpeg, djpeg, jpegtran,
                  rdjpgcom, and wrjpgcom.
*.1                Unix-style man pages for programs (same info as usage.doc).
wizard.doc        Advanced usage instructions for JPEG wizards only.
change.log        Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.doc       How to use the JPEG library in your own programs.
example.c         Sample code for calling the JPEG library.
structure.doc     Overview of the JPEG library's internal structure.
filelist.doc      Road map of IJG files.
coderules.doc     Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.
OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard".
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in “The Data Compression Book” by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision
1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a
few of them use this library to do so.) The JPEG FAQ described above lists
some of the more popular free and shareware viewers, and tells where to
obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free
PBMPLUS software, which provides many useful operations on PPM-format image
files. In particular, it can convert PPM images to and from a wide range of
other formats, thus making cjjpeg/djpeg considerably more useful. The latest
version is distributed by the NetPBM group, and is available from numerous
sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is;
you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,
is available from ftp://havefun.stanford.edu/pub/jpeg/. This program
is designed for research and experimentation rather than production use;
it is slower, harder to use, and less portable than the IJG code, but it
is easier to read and modify. Also, the PVRG code supports lossless JPEG,
which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
================

Some JPEG programs produce files that are not compatible with our library.
The root of the problem is that the ISO JPEG committee failed to specify a
concrete file format. Some vendors "filled in the blanks" on their own,
creating proprietary formats that no one else could read. (For example, none
of the early commercial JPEG implementations for the Macintosh were able to
exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format
has been agreed to by a number of major commercial JPEG vendors, and it has
become the de facto standard. JFIF is a minimal or "low end" representation.
We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF
Technical Note #2) for "high end" applications that need to record a lot of
additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don’t use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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   written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.
   intended for inclusion in X11 public releases. */

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1.2815 springfox-spi 2.8.0

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* /opt/cola/permits/1001071293_1646171656.32/0/springfox-spi-2-8-0-sources-jar/springfox/documentation/spi/service/contexts/OperationContext.java
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*/

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* /opt/cola/permits/1001071293_1646171656.32/0/springfox-spi-2-8-0-sources-jar/springfox/documentation/spi/service/ApiListingScannerPlugin.java
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* /opt/cola/permits/1001071293_1646171656.32/0/springfox-spi-2-8-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContextBuilder.java
* /opt/cola/permits/1001071293_1646171656.32/0/springfox-spi-2-8-0-sources-jar/springfox/documentation/spi/service/contexts/SecurityContextBuilder.java
* /opt/cola/permits/1001071293_1646171656.32/0/springfox-spi-2-8-0-sources-jar/springfox/documentation/spi/service/OperationBuilderPlugin.java
* /opt/cola/permits/1001071293_1646171656.32/0/springfox-spi-2-8-0-sources-jar/springfox/documentation/spi/schema/TypeNameProviderPlugin.java
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* /opt/cola/permits/1001071293_1646171656.32/0/springfox-spi-2-8-0-sources-jar/springfox/documentation/spi/service/contexts/ApiSelector.java
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1.2816 unzip 6.0-20.el7.0atomix2

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.
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* 
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* 
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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
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His primary concern is that it remain freely distributable, he said."

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, unfunzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUTS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1.jar/org/jboss/as/jacorb/AuthMethodValues.java
* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1.jar/org/jboss/as/jacorb/JacORBSubsystemResource.java
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* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1.jar/org/jboss/as/jacorb/IORExtension.java
* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1.jar/org/jboss/as/jacorb/JacORBSubsystemAdd.java
* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1.jar/org/jboss/as/jacorb/IORTransportConfigValues.java
* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1-
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The iorTransportconfigType specifies the attributes used to setup the IOR transport settings.

* integrity: indicates whether the transport must require integrity protection or not. Valid values are "none", "supported" and "required".
* confidentiality: indicates whether the transport must require confidentiality protection or not. Valid values are "none", "supported" and "required".
* trust-in-target: indicates if the transport must require trust in target to be established. Valid values are "none" and "supported".
* trust-in-client: indicates if the transport must require trust in client to be established. Valid values are "none", "supported" and "required".
* detect-replay: indicates whether the transport must require replay detection or not. Valid values are "none", "supported" and "required".
* detect-misordering: indicates whether the transport must require misordering detection or not. Valid values are "none", "supported" and "required".

]]>

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* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1-jar/schema/jboss-as- jacorb_2_0.xsd
* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1-jar/schema/jboss-as- jacorb_1_4.xsd

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* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1-jar/org/jboss/as/jacorb/JacORBSubsystemDefinitions.java
* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1-jar/org/jboss/as/jacorb/TransactionsAllowedValues.java
* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1-jar/org/jboss/as/jacorb/JacORBSubsystemParser.java
* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1-jar/org/jboss/as/jacorb/SecurityAllowedValues.java
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* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1-jar/org/jboss/as/jacorb/IORSettingsParser.java
* /opt/cola/permits/1110677271_1654022997.6798382/0/wildfly-jacorb-14-0-1-final-sources-1-jar/org/jboss/as/jacorb/SecurityAllowedValues.java
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* /opt/ws_local/PERMITS_SQL/1072989935_1595248329.71/0/netty-handler-4-1-39-final-sources-jar/io/netty/handler/ssl/OpenSslICachingX509KeyManagerFactory.java
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* /opt/cola/permits/1110675206_1654022931.95196/0/narayana-jts-idlj-5-9-0-final-sources-1.jar/com/arjuna/ats/internal/jta/resources/jts/orbspecific/ManagedSynchronizationImple.java

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* /opt/cola/permits/1110675206_1654022931.95196/0/narayana-jts-idlj-5-9-0-final-sources-1-jar/org/jboss/narayana/jta/jms/ConnectionManager.java
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* /opt/cola/permits/1110675206_1654022931.95196/0/narayana-jts-idlj-5-9-0-final-sources-1-jar/com/arjuna/ats/internal/jta/tools/osb/mbean/jta/XAResourceRecordBean.java

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* /opt/cola/permits/1110675206_1654022931.95196/0/narayana-jts-idlj-5-9-0-final-sources-1-jar/com/arjuna/ats/arjuna/tools/osb/annotation/MXBeanDescription.java
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 *
 * HP Arjuna Labs,
 * Newcastle upon Tyne,
 * Tyne and Wear,
 * UK.
 *
 * $Id: RecoveryManagerImple.java 2342 2006-03-30 13:06:17Z $ 
 */

Found in path(s):
* /opt/cola/permits/1110675206_1654022931.95196/0/narayana-jts-idlj-5-9-0-final-sources-1-
jar/com/arjuna/ats/internal/arjuna/recovery/RecoveryManagerImple.java 
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*
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Found in path(s):
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Found in path(s):
* /opt/cola/permits/1110675206_1654022931.95196/0/narayana-jts-idlj-5-9-0-final-sources-1-
jar/com/arjuna/ats/internal/jdbc/drivers/PropertyFileDynamicClass.java
* /opt/cola/permits/1110675206_1654022931.95196/0/narayana-jts-idlj-5-9-0-final-sources-1-
jar/com/arjuna/ats/internal/jdbc/drivers/XADataSourceReflectionWrapper.java

1.2833 ca-certificates 2020.2.41-70.0.el7_8
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Found in path(s):
* /opt/cola/permits/1254327621_1654022825.3396451/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-
archive-ZaGdEd2z/certdata2pem.py
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update-ca-trust(8)
==================================
:doctype: manpage
:man source: update-ca-trust

NAME
----
update-ca-trust - manage consolidated and dynamic configuration of CA
certificates and associated trust

SYNOPSIS
--------
*update-ca-trust* ['COMMAND']

DESCRIPTION
-----------
update-ca-trust(8) is used to manage a consolidated and dynamic configuration
feature of Certificate Authority (CA) certificates and associated trust.

The feature is available for new applications that read the
consolidated configuration files found in the /etc/pki/ca-trust/extracted directory
or that load the PKCS#11 module p11-kit-trust.so

Parts of the new feature are also provided in a way to make it useful
for legacy applications.

Many legacy applications expect CA certificates and trust configuration
in a fixed location, contained in files with particular path and name,
or by referring to a classic PKCS#11 trust module provided by the
NSS cryptographic library.

The dynamic configuration feature provides functionally compatible replacements
for classic configuration files and for the classic NSS trust module named libnssckbi.

In order to enable legacy applications, that read the classic files or
access the classic module, to make use of the new consolidated and dynamic configuration
feature, the classic filenames have been changed to symbolic links.
The symbolic links refer to dynamically created and consolidated
output stored below the /etc/pki/ca-trust/extracted directory hierarchy.

The output is produced using the 'update-ca-trust' command (without parameters), or using the 'update-ca-trust extract' command.
In order to produce the output, a flexible set of source configuration is read, as described in section <<sourceconf,SOURCE CONFIGURATION>>.

In addition, the classic PKCS#11 module is replaced with a new PKCS#11 module (p11-kit-trust.so) that dynamically reads the same source configuration.

[[sourceconf]]

SOURCE CONFIGURATION
-----------------------
The dynamic configuration feature uses several source directories that will be scanned for any number of source files. *It is important to select the correct subdirectory for adding files, as the subdirectory defines how contained certificates will be trusted or distrusted, and which file formats are read.*

Files in *subdirectories below the directory hierarchy /usr/share/pki/ca-trust-source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *low priority*.

Files in *subdirectories below the directory hierarchy /etc/pki/ca-trust/source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *high priority*.

*QUICK HELP 1*: To add a certificate in the simple PEM or DER file formats to the list of CAs trusted on the system:
* add it as a new file to directory /etc/pki/ca-trust/source/anchors/
* run 'update-ca-trust extract'

*QUICK HELP 2*: If your certificate is in the extended BEGIN TRUSTED file format (which may contain
distrust/blacklist trust flags, or trust flags for usages other than TLS) then:
* add it as a new file to directory /etc/pki/ca-trust/source/
* run `update-ca-trust extract`

In order to offer simplicity and flexibility, the way certificate files are treated depends on the subdirectory they are installed to.
* simple trust anchors subdirectory: /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/   
  * simple blacklist (distrust) subdirectory: /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/   
  * extended format directory: /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/

In the main directories /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ you may install one or multiple files in the following file formats:
* certificate files that include trust flags,   
  in the BEGIN/END TRUSTED CERTIFICATE file format   
  (any file name), which have been created using the openssl x509 tool   
  and the -addreject -addtrust options.   
  Bundle files with multiple certificates are supported.   
* files in the p11-kit file format using the .p11-kit file name   
  extension, which can (e.g.) be used to distrust certificates   
  based on serial number and issuer name, without having the   
  full certificate available.   
  (This is currently an undocumented format, to be extended later.   
  For examples of the supported formats, see the files   
  shipped with the ca-certificates package.)   
* certificate files without trust flags in either the DER file format or in   
  the PEM (BEGIN/END CERTIFICATE) file format (any file name). Such files   
  will be added with neutral trust, neither trusted nor distrusted.   
  They will simply be known to the system, which might be helpful to   
  assist cryptographic software in constructing chains of certificates.   
  (If you want a CA certificate in these file formats to be trusted, you   
  should remove it from this directory and move it to the   
  ./anchors subdirectory instead.)

In the anchors subdirectories /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/ you may install one or multiple certificates in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format. Each certificate will be treated as *trusted* for all purposes.

In the blacklist subdirectories /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/ you may install one or multiple certificates in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format. Each certificate will be treated as *distrusted* for all purposes.

Please refer to the x509(1) manual page for the documentation of the BEGIN/END CERTIFICATE and BEGIN/END TRUSTED CERTIFICATE file formats.

Applications that rely on a static file for a list of trusted CAs may load one of the files found in the /etc/pki/ca-trust/extracted
directory. After modifying any file in the
/usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/
directories or in any of their subdirectories, or after adding a file,
it is necessary to run the 'update-ca-trust extract' command,
in order to update the consolidated files in /etc/pki/ca-trust/extracted/.

Applications that load the classic PKCS#11 module using filename libnssckbi.so
(which has been converted into a symbolic link pointing to the new module)
and any application capable of
loading PKCS#11 modules and loading p11-kit-trust.so, will benefit from
the dynamically merged set of certificates and trust information stored in the
/usr/share/pki/ca-trust-source/ and /etc/pki/ca-trust/source/ directories.

[[extractconf]]
EXTRACTED CONFIGURATION
-----------------------
The directory /etc/pki/ca-trust/extracted/ contains generated CA certificate
bundle files which are created and updated, based on the <<sourceconf,SOURCE CONFIGURATION>>
by running the 'update-ca-trust extract' command.

If your application isn't able to load the PKCS#11 module p11-kit-trust.so,
then you can use these files in your application to load a list of global
root CA certificates.

Please never manually edit the files stored in this directory,
because your changes will be lost and the files automatically overwritten,
each time the 'update-ca-trust extract' command gets executed.

In order to install new trusted or distrusted certificates,
please rather install them in the respective subdirectory below the
/usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/
directories, as described in the <<sourceconf,SOURCE CONFIGURATION>> section.

The directory /etc/pki/ca-trust/extracted/java/ contains
a CA certificate bundle in the java keystore file format.
Distrust information cannot be represented in this file format,
and distrusted certificates are missing from these files.
File cacerts contains CA certificates trusted for TLS server authentication.

The directory /etc/pki/ca-trust/extracted/openssl/ contains
CA certificate bundle files in the extended BEGIN/END TRUSTED CERTIFICATE file format,
as described in the x509(1) manual page.
File ca-bundle.trust.crt contains the full set of all trusted
or distrusted certificates, including the associated trust flags.

The directory /etc/pki/ca-trust/extracted/pem/ contains
CA certificate bundle files in the simple BEGIN/END CERTIFICATE file format,
as described in the x509(1) manual page.
Distrust information cannot be represented in this file format, and distrusted certificates are missing from these files.
File tls-ca-bundle.pem contains CA certificates trusted for TLS server authentication.
File email-ca-bundle.pem contains CA certificates trusted for E-Mail protection.
File objsign-ca-bundle.pem contains CA certificates trusted for code signing.

COMMANDS
--------
(absent/empty command)::
   Same as the *extract* command described below. (However, the command may print fewer warnings, as this command is being run during rpm package installation, where non-fatal status output is undesired.)

*extract*::
   Instruct update-ca-trust to scan the <<sourceconf,SOURCE CONFIGURATION>> and produce updated versions of the consolidated configuration files stored below the /etc/pki/ca-trust/extracted directory hierarchy.

FILES
-----
/etc/pki/tls/certs/ca-bundle.crt::
   Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the simple BEGIN/END CERTIFICATE file format, without distrust information.
   This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/tls/certs/ca-bundle.trust.crt::
   Classic filename, file contains a list of CA certificates in the extended BEGIN/END TRUSTED CERTIFICATE file format, which includes trust (and/or distrust) flags specific to certificate usage.
   This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/java/cacerts::
   Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the Java keystore file format, without distrust information.
   This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/usr/share/pki/ca-trust-source::
   Contains multiple, low priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/source::
   Contains multiple, high priority source configuration files as explained in section <<sourceconf,SOURCE CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.
Contains consolidated and automatically generated configuration files for consumption by applications, which are created using the 'update-ca-trust extract' command. Don't edit files in this directory, because they will be overwritten. See section <<extractconf,EXTRACTED CONFIGURATION>> for additional details.

AUTHOR
------
Written by Kai Engert and Stef Walter.

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NAME
----
ca-legacy - Manage the system configuration for legacy CA certificates

SYNOPSIS
--------
*ca-legacy* ['COMMAND']

DESCRIPTION
----------
ca-legacy(8) is used to include or exclude a set of legacy Certificate Authority (CA) certificates in the system's list of trusted CA certificates.

The list of CA certificates and trust flags included in the ca-certificates package are based on the decisions made by Mozilla.org according to the Mozilla CA policy.

Occasionally, removal or distrust decisions made by Mozilla.org might be incompatible with the requirements or limitations of some applications that also use the CA certificates list in the Linux environment.

The ca-certificates package might keep some CA certificates included and trusted by default, as long as it is seen necessary by the maintainers, despite the fact that they have been removed by Mozilla. These certificates are called legacy CA certificates.

The general requirements to keep legacy CA certificates included and trusted might change over time, for example if functional limitations of software packages have been resolved.

Future versions of the ca-certificates package might reduce the set of legacy CA certificates that are included and trusted by default.

The ca-legacy(8) command can be used to override the default behaviour.

The mechanisms to individually trust or distrust CA certificates as described in update-ca-trust(8) still apply.

COMMANDS
---------
*check*::
  The current configuration will be shown.

*default*::
  Configure the system to use the default configuration, as recommended by the package maintainers.

*disable*::
  Configure the system to explicitly disable legacy CA certificates. Using this configuration, the system will use the set of included and trusted CA certificates as released by Mozilla.

*install*::
  The configuration file will be read and the system configuration will be set accordingly. This command is executed automatically during upgrades of the ca-certificates package.

FILES
-----
/etc/pki/ca-trust/ca-legacy.conf: A configuration file that will be used and modified by the ca-legacy command. The contents of the configuration file will be read on package upgrades.
AUTHOR
-----
Written by Kai Engert.

Found in path(s):
* /opt/cola/permits/1254327621_1654022825.3396451/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-archive-ZaGdEd2z/ca-legacy.8.txt
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#
#
# This file contains the object definitions for the certs and other information "built into" NSS.
#
# Object definitions:
#
# Certificates
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 (varies)
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT DER+base64 (varies)
# CKA_ID byte array (varies)
# CKA_ISSUER DER+base64 (varies)
# CKA_SERIAL_NUMBER DER+base64 (varies)
# CKA_VALUE DER+base64 (varies)
# CKA_NSS_EMAIL ASCII7 (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64 (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64 (varies)
#
# Trust
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS CK_OBJECT_CLASS CKO_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 (varies)
# CKA_ISSUER DER+base64 (varies)
# CKA_SERIAL_NUMBER DER+base64 (varies)
# CKA_CERT_HASH binary+base64 (varies)
# CKA_EXPIRES CK_DATE (not used here)
# CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST (varies)
# CKA_TRUST_NON_REPUDIATION CK_TRUST (varies)
# CKA_TRUST_KEY_ENCPHERMENT CK_TRUST (varies)
# CKA_TRUST_DATA_ENCPHERMENT CK_TRUST (varies)
# CKA_TRUST_KEY_AGREEMENT CK_TRUST (varies)
# CKA_TRUST_KEY_CERT_SIGN CK_TRUST (varies)
# CKA_TRUST_CRL_SIGN CK_TRUST (varies)
# CKA_TRUST_SERVER_AUTH CK_TRUST (varies)
# CKA_TRUST_CLIENT_AUTH CK_TRUST (varies)
# CKA_TRUST_CODE_SIGNING CK_TRUST (varies)
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST (varies)
# CKA_TRUST_IPSEC_END_SYSTEM CK_TRUST (varies)
# CKA_TRUST_IPSEC_TUNNEL CK_TRUST (varies)
# CKA_TRUST_IPSEC_USER CK_TRUST (varies)
# CKA_TRUST_TIME_STAMPING CK_TRUST (varies)
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL (varies)
# (other trust attributes can be defined)
#
# The object to tell NSS that this is a root list and we don't
# have to go looking for others.
#
# BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"
#
# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number: 04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA, OU=Root CA, O=GlobalSign nv-sa, C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After: Fri Jan 28 12:00:00 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\127\060\013\060\011\006\003\125\004\006\023\002\102\105\061\031\060\027\006\003\03\125\004\012\023\020\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\061\033\060\031\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\060\013\060\001\010\060\003\125\004\006\023\002\102\105\061\031\060\027\006\003\03\125\004\012\023\020\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\061\033\060\031\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\000\01\025\113\132\303\224\END
CKA_VALUE MULTILINE_OCTAL
\060\020\031\016\5\060\020\02\135\240\003\002\001\002\002\013\004\000\000\000\000\000\01\025\113\132\303\224\060\015\006\011\052\206\11\020\063\07\150\01\001\005\005\000\006\012\07\061\013\060\011\006\003\125\004\006\023\03\2\102\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154\123\151\147\157\164\040\103\101\061\133\060\031\125\004\001\012\023\007\122\157\157\164\040\103\101\061\033\060\031\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147\157\164\040\103\101\END

Open Source Used In Data Center Network Manager 11.5(1) 32755
# Trust for Certificate "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
\013\325\331\314\371\352\047\012\053\163\221\306\235\033\254\310
\313\350\340\240\364\057\220\213\151\373\260\066\033\366\031\172
\205\340\155\362\214\023\210\134\237\340\223\012\121\227\212\1132
\316\257\253\325\367\252\011\252\140\275\334\333\113\377\337\162\251
\140\203\136\000\000\013\111\123\372\077\244\352\007\003\041\002\216
\202\212\003\032\233\217\002\003\001\000\000\124\3\201\234\060\201
\231\060\016\006\003\012\250\035\017\001\001\013\007\004\004\003\002\201
\006\060\017\006\003\012\253\035\023\001\007\004\005\060\003\001\001
\013\377\060\035\006\003\012\253\035\016\004\026\004\024\233\342\007
\127\147\034\040\363\000\152\006\336\131\264\232\055\337\334\031\206
\056\060\066\000\003\125\035\037\004\057\060\055\060\053\240\051
\240\047\206\045\150\164\164\160\072\057\057\143\162\154\056\147
\154\157\142\141\154\163\151\147\147\156\056\156\145\164\057\162\157
\157\164\055\162\062\056\143\162\154\060\037\006\003\012\250\035\043
\004\030\060\026\200\002\242\333\342\007\127\147\034\036\300\152\006
\336\131\264\232\025\55\337\334\031\020\065\060\015\006\011\052\206
\110\206\367\015\000\001\005\005\000\003\020\001\001\000\231\201
\123\207\034\351\227\206\221\354\340\112\270\040\131\253\201\254
\047\117\326\301\270\034\103\170\263\014\232\374\352\054\074\156
\141\033\115\113\051\136\237\005\350\046\301\270\351\203\000\014
\105\266\250\101\223\271\251\063\133\030\232\032\207\202\210\116
\333\335\161\064\032\030\112\243\332\106\077\340\032\233\052\253\155\124
\042\365\072\142\315\040\157\272\051\211\112\273\335\221\356\323\134
\242\076\244\133\101\365\337\345\144\030\55\351\235\071\253\322
\242\337\267\213\320\300\200\031\034\015\300\055\214\350\370\005
\244\164\126\111\030\005\052\65\117\025\336\156\041\170\071\207\250
\176\273\363\171\030\221\273\364\157\235\301\360\214\065\214\135
\001\173\303\115\271\135\104\155\171\106\061\176\012\376\251\202
\301\137\357\253\156\040\304\120\311\137\235\115\233\027\214\014
\345\001\131\240\101\152\163\123\372\245\120\264\156\045\017\373
\114\030\364\375\122\331\216\151\126\350\021\017\336\210\330\373
\035\111\367\252\336\225\317\040\170\302\140\022\333\045\100\214
\152\374\176\102\070\100\144\022\367\236\201\341\223\056
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GlobalSign Root CA - R2"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Serial Number:04:00:00:00:00:01:0f:86:26:e6:06:ed:0d
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After : Wed Dec 15 08:00:00 2021

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
# Certificate "Verisign Class 1 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3, OU="(c) 1999 VeriSign, Inc. - For authorized use only", O=VeriSign Trust Network, C=US
# Serial Number: 00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3, OU="(c) 1999 VeriSign, Inc. - For authorized use only", O=VeriSign Trust Network, C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\023\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
# Trust for Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",O="VeriSign, Inc.",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ee:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
# Certificate "Verisign Class 2 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.".,C=US


# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.".,C=US

# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\141\357\103\327\177\312\324\141\121\274\230\340\303\131\022\257
\237\353\143\021
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\276\304\143\042\311\250\106\164\213\270\035\036\112\053\366
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\0106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\013\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\141\160\313\111\124\137\230\105\051\347\260\246\331\120
\133\172
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Verisign Class 3 Public Primary Certification Authority - G3"
#
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 3 Public Primary Certification Authority - G3"
\022\032\022\150\270\373\146\231\024\024\105\134\256\347\256\151
\027\201\053\317\062\267\311\364\306\342\241\134\124\233\246
\124\000\317\360\361\301\307\230\060\032\073\066\026\333\243\156
\352\255\262\302\332\357\002\107\023\212\000\361\263\061\125
\117\034\344\117\234\257\017\014\235\367\170\015\330\364\065\126
\200\332\267\155\027\217\235\036\201\144\341\376\305\010\272\255
\153\271\012\172\116\117\113\204\356\113\361\175\335\021
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Verisign Class 3 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 3 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\023\055\015\105\123\113\151\227\315\262\325\303\071\134\222\125\166
\140\233\134\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\150\266\247\307\304\316\165\340\035\117\127\104\141\122\011
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\132\061\103\060\011\060\003\125\004\006\023\002\125\123
\061\207\060\025\006\003\125\004\012\023\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\060\031\125
\004\13\023\026\126\145\162\151\123\131\147\156\040\124\162\165
\163\164\040\116\145\167\157\162\153\061\027\200\006\003
\125\004\013\023\061\043\051\040\040\017\071\071\071\040\00\026
\162\151\132\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\060\003\125\004\003\023
\074\161\156\150\131\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063
Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 1/3)"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc." C=US
# Serial Number:4c:00:36:1b:e5:08:2b:a9:aa:ce:74:0a:05:3e:fb:34
# Subject: CN=Egypt Trust Class 3 Managed PKI Enterprise Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
# Not Valid Before: Sun May 18 00:00:00 2008
# Not Valid After : Thu May 17 23:59:59 2018
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 1/3)"

# CKA_ISSUER MULTILINE_OCTAL
\060\020\312\061\013\060\001\100\060\003\125\004\006\023\002\125\123
\061\027\060\025\060\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\060\103\060\035\006\031\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\161\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\107\071\071\070\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\161\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\030\120\165\142\154\151\143\040\120\162\151\155\151\141\162\171
\104\030\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\100\002\233\176\006\111\243\076\142\271\325\356\220\110\161
\051\357\127

END
Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 2/3)"
Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Subject: CN=Egypt Trust Class 3 Managed PKI Operational Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
Not Valid Before: Sun May 18 00:00:00 2008
Not Valid After: Thu May 17 23:59:59 2018
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 2/3)"
CKA_ISSUER MULTILINE_OCTAL
\060\020\031\061\013\060\060\011\006\060\033\125\004\006\023\002\125\123
\061\027\060\025\060\060\033\125\004\012\023\016\026\145\150\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\025\015\145\040\124\162\165
\161\146\040\115\145\164\167\157\152\061\072\060\007\006\0003
\125\004\013\023\026\015\014\040\040\071\071\071\040\126\145
\162\150\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\154\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\154\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\017\0763
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\076\014\236\207\151\125\225\134\352\043\330\105\236\324
\133\121
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 3/3)"
Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Subject: CN=Egypt Trust Class 3 Managed PKI SCO Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
Not Valid Before: Sun May 18 00:00:00 2008
# Trust for "Entrust.net Premium 2048 Secure Server CA"
# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\120\060\006\011\035\227\324\365\256\071\367\313\347\222\175\175
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\023\346\350\265\051\156\076\006\003\125\004\012\023\034\050\143\051\040\061\071\071\071\040\0105\156\145\162\164\151\151\141\142\056\010\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\071\040\0105\156\145\162\164\151\151\141\142\056\010\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\071\040\0105\156\145\162\164\151\151\141\142\056\010\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\071\040\0105\156\145\162\164\151\151\141\142\056\010\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\071\040\0105\156\145\162\164\151\151\141\142\056\010\045\060\043\006

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Baltimore CyberTrust Root"
#
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\130\062\060\011\006\003\125\004\006\023\002\111\105\061\022\060\020\006\003\125\004\012\023\001\110\141\154\164\151\155\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164\155\162\145\040\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164\155\162\145\040\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\0271

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\020\002\137\240\003\002\001\002\002\004\002\000\000\271\060\015\006\011\052\020\061\110\206\367\015\001\001\005\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\111\050\061\022\060\020\006\003\125\004\012\023\001\110\141\154\164\151\155\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164\155\162\145\040\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164\155\162\145\040\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164\155\162\145\040\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164\155\162\145\040\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\324\336\040\320\136\146\374\123\376\032\120\210\054\170\333\050\122\312\344\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\266\224\245\234\027\340\221\122\157\157\164
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\105\061\022\060\020\060\003\125\004\012\023\011\102\141\154\164\151\155\157\162\145\061\023\060\021\006\003\125\004\013\023\012\103\171\142\145\162\161\165\163\164\061\042\060\040\006\003\125\004\003\023\031\102\141\154\164\151\155\157\162\145\040\103\171\142\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\0271
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Entrust Root Certification Authority"
#
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is
# incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is
# incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\263\036\261\267\100\343\154\204\020\322\320\371\143\350\221\014\005\040\251\137\031\312\173\162\116\324\261\133\320
\226\373\124\112\263\015\040\101\003\077\003\002\004\220\060\015\006\011\005\020\060\367\015\001\000\005\005
\000\140\023\377\160\176\137\021\115\111\033\263\025\122\173\311
\124\332\277\235\222\257\153\232\330\236\351\361\134\013\215\342
\021\110\072\277\272\257\203\012\163\122\13\252\273\247\051\1317
\365\144\034\101\115\321\124\252\254\237\052\320\377\177\177\332
\175\352\261\135\060\045\301\204\332\064\322\131\170\203\012\126\354
\234\066\303\034\324\021\136\147\111\035\222\253\214\373\353\377
\172\356\205\112\247\120\200\360\247\134\112\224\056\137\005\231
\074\122\101\340\315\264\143\317\001\103\272\234\203\334\217\140
\073\363\132\264\264\173\256\332\013\220\070\165\357\201\035\146
\322\367\127\160\066\263\277\374\050\257\161\045\020\133\023\376
\036\171\172\264\074

Open Source Used In Data Center Network Manager 11.5(1) 32782
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# Certificate "GeoTrust Global CA"
#

# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After : Sat May 21 04:00:00 2022

Open Source Used In Data Center Network Manager 11.5(1) 32783
\312\314\116\060\037\006\003\125\035\043\004\030\060\002\62\200\024
\300\172\230\150\021\15|\213\73\253\005\144\014\021\175\252\175\145
\270\312\314\141\116\060\015\006\011\052\206\110\206\367\015\001\001
\005\005\000\003\032\200\010\000\065\343\051\152\345\057\135\124
\216\051\120\224\237\231\032\024\344\217\170\052\142\224\242\047
\147\236\320\171\032\136\107\351\301\262\244\317\335\101\032\005
\116\233\113\356\112\157\125\122\263\044\241\067\012\353\144\166
\052\056\054\363\375\073\165\220\277\372\161\330\307\050\067\322
\265\005\225\142\227\124\63\366\211\075\066\173\070\167\110\227\254
\246\040\217\056\246\031\014\030\262\231\105\000\030\316\021\012
\042\042\340\245\352\266\025\110\011\144\352\136\117\164\367\005
\076\030\217\122\014\333\025\264\275\155\233\345\306\261\124\150
\251\343\151\120\266\232\245\017\270\271\077\040\175\256\112\265
\270\234\344\035\266\253\346\224\245\301\130\203\255\333\365\047
\207\016\000\041\154\325\377\335\340\135\355\027\122\267\053\025\002
\256\071\246\152\164\351\133\322\304\347\274\115\064\036\251\134\115
\063\137\222\011\057\210\146\135\167\227\307\035\166\002\23\251\325
\345\361\026\011\021\065\325\254\333\044\161\160\004\230\126\013
\331\027\264\321\343\121\053\136\165\350\325\320\334\117\164\035
\302\000\146\200\241\313\346\063
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GeoTrust Global CA"
# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before:Tue May 21 04:00:00 2002
# Not Valid After : Sat May 21 04:00:00 2022
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\050\364\244\377\345\271\057\243\305\003\321\243\11\247\371\22\52\02\02
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\367\165\253\051\373\121\116\267\167\136\377\005\074\23\12\036
END

CKA_ISSUER MULTILINE_OCTAL
\060\012\061\013\060\011\006\003\125\004\006\023\002\021\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
# Certificate "GeoTrust Universal CA"

# Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 05:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL
END

# Trust for Certificate "GeoTrust Universal CA"
# Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004

...
# Not Valid After: Sun Mar 04 05:00:00 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA"

# Certificate "GeoTrust Universal CA 2"

# Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After: Sun Mar 04 05:00:00 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\101\225\230\123\150\036\034\006\003\125\004\006\023\002\125\123\061
\060\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003
\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\103\101

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "GeoTrust Universal CA 2"
# Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 05:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\067\232\031\173\101\205\065\014\246\003\151\63\074\056\257

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\064\374\270\320\066\333\236\024\263\032\362\333\217\344\224\307

END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\100\064\003\125\004\006\023\002\125\123\061
\026\060\024\000\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\104\060\036\060\003\125\004\003
\023\027\107\145\157\124\162\165\163\164\040\125\156\151\166\145
\162\163\141\154\040\013\101\040\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Certum Root CA"

# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\033\060\031\006\003\125\004\012\023\022\125\156\151\172\145\164
\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060\020
\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\001\000\040
END
CKA_VALUE MULTILINE_OCTAL
\060\020\020\003\014\060\020\001\364\240\003\002\000\100\002\000\003\001
\000\040\060\015\052\206\110\206\367\015\001\001\005\005
\000\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\133\060\031\006\003\125\004\012\023\022\125\156\151\172\145
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103
\101\060\036\027\015\060\062\060\066\061\061\060\064\066\063\063
\071\132\027\015\062\067\060\066\061\061\060\064\066\063\071
\132\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\133\060\031\006\003\125\004\012\023\022\125\156\151\172\145
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060
\020\006\003\125\004\003\023\011\103\145\162\164\165\155\040\103
\101\060\036\027\015\060\062\060\066\061\061\060\064\066\063\063
\071\132\027\015\062\067\060\066\061\061\060\064\066\063\071
\132\060\076\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\133\060\031\006\003\125\004\012\023\022\125\156\151\172\145
\164\157\040\123\160\056\040\172\040\157\056\157\056\061\022\060
\214\157\200\152\163\310\133\121\137\203\233\322\334\273\000\134\261
\240\374\165\003\356\201\360\201\365\043\122\351\134\025\063\215
\254\055\011\305\166\371\053\070\212\113\244\227\113\220\204\250
\170\370\163\103\173\244\141\260\330\130\314\115\146\176\234
\363\011\136\125\143\204\325\250\357\363\261\056\060\150\263\304
\074\303\254\156\215\231\132\220\116\064\334\066\232\217\201\210
\120\267\155\226\102\011\363\327\225\203\015\101\113\260\152\153
\370\374\017\176\142\237\147\304\355\046\137\020\046\017\010\117
\360\024\127\050\031\162\270\355\103\366\156\356\045\135\252\156
\071\276\344\223\057\110\074\240\162\353\372\246\133\257\312\123
\077\342\016\306\226\126\021\156\367\351\146\251\046\330\177\225
\123\355\012\205\210\272\117\051\245\102\224\136\266\374\205\040
\000\252\150\013\241\032\205\001\234\304\106\143\202\210\266\042
\261\136\376\252\106\131\117\317\065\054\343\25\260\332\135\367\110
\063\024\124\242\260\353\033\115\316\315\210\326\250\333\332\226\073
\035\131\002\003\000\001\012\243\023\060\021\060\017\006\003\125
\035\023\001\001\037\70\004\040\000\003\000\011\377\060\015\006\011
\052\226\110\026\067\015\001\001\005\005\000\003\202\001\001\000
\270\215\316\357\347\024\242\317\356\260\104\222\154\264\071\076
\242\220\156\255\270\041\167\322\324\167\202\207\346\040\101\201
\356\342\370\02\167\014\321\027\067\276\031\166\044\034\040\032
\114\353\075\252\017\157\055\324\315\376\145\061\160\035\033\246
\002\012\227\140\173\155\130\032\232\111\13\376\143\062\013\153\343
\072\300\254\253\073\260\350\032\330\11\12\124\020\203\033\064\340
\305\053\340\003\266\140\024\047\154\062\167\212\247\262\162\230
\317\155\314\077\271\130\044\102\024\326\127\346\046\103\251
\035\345\200\220\316\003\012\405\007\367\077\372\333\370\115\355\152
\012\072\223\023\023\073\024\043\023\143\234\077\321\207\047\171
\145\114\121\134\001\255\020\135\032\073\261\132\163\020\244\323
\362\227\156\144\365\132\126\220\250\037\161\114\164\017\056\161
\073\367\310\107\364\151\115\072\253\362\021\136\203\036\234\174\122
\256\375\002\323\222\250\131\147\030\333\324\160\335\233\261\151
\355\020\316\211\000\110\152\016\065\312\051\146\025\041\124\054
\350\140\052\233\205\112\010\036\153\212\044\354\006\026\054\163
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10002)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# Certificate "Certum Root CA"

# Issuer: CN=Certum Root CA, O=Certum, L=Salford, ST=Greater Manchester, C=GB
# Serial Number: 0 (0x0)
# Subject: CN=Certum Root CA, O=Certum, L=Salford, ST=Greater Manchester, C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After: Sun Dec 31 23:59:59 2028

# Certificate "Comodo AAA Services root"

# Issuer: CN=AAA Certificate Services, O=Comodo CA Limited, L=Salford, ST=Greater Manchester, C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services, O=Comodo CA Limited, L=Salford, ST=Greater Manchester, C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After: Sun Dec 31 23:59:59 2028
# Certificate "QuoVadis Root CA"

# Issuer: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
# Serial Number: 985026699 (0x3ab6508b)
# Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
# Not Valid Before: Mon Mar 19 18:33:33 2001
# Not Valid After: Wed Mar 17 18:33:33 2021
# Fingerprint (MD5): 27:DE:36:FE:72:B7:00:03:00:9D:F4:F0:1E:6C:04:24

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\012\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\012\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\266\120\213
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\320\266\120\213\060\015\006\011\052\206\110\206\367\015\001\001\005
\005\000\006\017\061\013\060\011\006\003\125\004\006\023\002\102\110
\150\061\031\060\027\006\003\125\004\012\023\020\012\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\045\060\043\004
\106\003\125\004\013\023\034\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
Open Source Used In Data Center Network Manager 11.5(1) 32799
\313\357\337\241\201\202\204\244\201\202\205\177\061\013\206\011\006
\200\212\203\202\201\212\165\157\126\141\144\151\163\040\144\151\155\151
\164\145\144\061\045\060\043\006\003\012\025\004\013\023\034\122\157
\157\164\040\013\145\162\164\151\146\151\143\141\164\151\157\156
\140\011\165\164\150\167\161\157\061\056\060\054\006\003
\125\004\003\203\045\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\013\145\162\164\151\146\151\143\141\164\151\157\156
\140\011\165\164\150\157\162\151\164\171\202\004\072\266\120\213
\106\001\160\060\031\125\035\017\001\100\137\004\004\003\002\200\101
\106\001\150\060\011\052\206\110\106\367\015\001\011\005\005\000\003
\122\001\200\010\002\122\324\024\265\376\364\232\222\247\031\242\244
\176\162\030\217\333\115\017\141\122\044\335\147\157\071\117\23\04252
\136\075\342\130\260\115\160\230\204\141\135\033\343\151\1030\016
\316\373\107\120\240\116\377\360\044\037\275\262\316\365\047\374
\135\057\123\252\163\173\003\075\164\156\346\026\236\305\245\056
\304\277\126\047\120\200\053\142\272\276\113\034\074\125\134\101\035
\044\276\202\040\017\135\325\104\176\172\206\150\337\175\115\121
\160\170\127\035\063\036\375\002\231\123\240\143\131\012\000\511\173\070
\273\216\244\169\372\112\155\261\200\216\011\126\271\234\032\2140
\376\165\303\131\327\172\334\021\170\032\326\135\301\267\325\255\062
\231\003\072\212\231\141\124\045\071\061\201\1173\023\042\121\272\106
\154\241\273\236\372\004\154\1110\046\164\217\322\163\353\134\060
\242\346\352\131\104\02\273\370\227\365\016\375\352\134\222\244\026
\304\122\030\352\041\316\261\361\134\204\201\034\272\251\120\050
\362\103\321\135\022\235\254\036\331\250\345\012\152\247\1771240
\207\051\137\362\211\115\324\354\305\342\346\172\320\066\043\212
\1121\64\066\371

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "QuoVadis Root CA"
# Issuer: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis
# Limited,C=BM
# Serial Number: 985026699 (0x3ab6508b)
# Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis
# Limited,C=BM
# Not Valid Before: Mon Mar 19 18:33:33 2001
# Not Valid After: Wed Mar 17 18:33:33 2021
# Fingerprint (MD5): 27:DE:36:FE:72:B7:00:03:00:9D:F4:F0:1E:6C:04:24
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\077\100\227\120\223\323\154\140\366\332\274\007\142\001
\000\211\166\311
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\336\066\376\162\267\000\003\000\235\364\360\036\154\004\044
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157\126
\141\144\151\163\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\072\266\120\213
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "QuoVadis Root CA 2"
#
# Issuer: CN=QuoVadis Root CA 2, O=QuoVadis Limited, C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2, O=QuoVadis Limited, C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\103\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171


\141\363\074\034\341\271\202\134\135\240\303\351\130\110\275\031
\242\021\024\032\011\156\262\206\033\150\076\110\067\032\210\267\135
\226\136\234\307\357\047\142\010\342\221\031\134\322\361\041\335
\272\027\102\202\227\161\201\123\061\251\123\366\175\142\277\162
\341\243\223\035\134\242\046\132\011\070\320\316\327\015\200\026
\264\170\245\072\207\114\215\212\245\325\106\227\362\054\020\271
\274\124\042\300\001\120\151\103\236\364\262\357\155\370\354\332
\361\134\261\357\337\221\217\124\052\013\045\301\046\031\304\122
\020\005\145\202\020\352\302\061\315\056
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\072\373\022\100\066\011\131\014\262\026\040\210\020\110\071
\031\123\174\367
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\136\071\173\335\370\272\354\202\351\254\142\272\014\124\000\053
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\105\061\101\060\011\100\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\000\039\230\222\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\011
END

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# Certificate "QuoVadis Root CA 3"

# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After: Mon Nov 24 19:06:44 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\010\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\010\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\106
END

CKA_VALUE MULTILINE_OCTAL
\060\020\006\235\060\202\004\205\240\003\002\001\002\002\002\005
\306\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\015\060\013\060\011\010\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
\064\061\071\061\061\062\063\132\027\150\063\061\061\061\062\064
\061\071\060\060\066\064\064\132\060\015\061\013\060\011\006\003\125
\004\006\023\020\102\115\061\031\060\027\006\003\125\004\012\023
\020\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145
\144\061\033\060\031\006\003\125\004\003\023\022\121\165\157\126
# Trust for Certificate "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"

# Certificate "Security Communication Root CA"
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
# Trust for Certificate "Security Communication Root CA"

# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\261\053\111\371\201\236\327\114\236\274\070\017\306\126\217
\135\254\262\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\361\274\143\152\124\340\265\047\365\315\347\032\343\115\156\112
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\030\060\026\060\003\125\004\012\023\017\123\105\103\117\115\040
\124\162\165\163\164\056\156\145\164\061\047\060\045\006\003\125
\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155
\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103
\101\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Sonera Class 2 Root CA"
#
# Issuer: CN=Sonera Class2 CA,O=Sonera,C=FI
# Serial Number: 29 (0x1d)
# Subject: CN=Sonera Class2 CA,O=Sonera,C=FI
# Not Valid Before: Fri Apr 06 07:29:40 2001
# Not Valid After : Tue Apr 06 07:29:40 2021
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sonera Class 2 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\106\111\106\1
\017\060\015\006\003\125\004\012\023\006\123\157\156\145\162\141
\061\031\060\027\006\003\125\004\003\023\020\123\157\156\145\162
\141\040\103\154\141\163\163\062\040\103\101
\162\253\026\271\123\253\057\174\065\313\254\320\017\264\114\053\374
\200\357\153\214\221\137\066\166\367\333\263\030\031\352\364\262
\021\375\141\161\040\277\050\263\072\035\277\263\103\350\237\277
\334\061\010\161\260\235\215\326\064\107\062\220\306\145\044\367
\240\112\174\004\163\217\071\157\027\214\162\265\275\113\310\172
\370\173\203\030\050\116\234\011\352\147\077\262\147\004\033\303
\024\332\370\347\111\044\221\320\035\152\372\141\071\357\153\347
\041\165\006\007\330\022\264\041\040\160\010\216\120\032\074\232
\066\276\246\133\151\152\372\232\037\221\173\371\371\157\102\272
\116\116\236\314\014\215\322\234\333\331\050\234\136\354\102\120\143
\256\364\135\304\261\022\334\312\073\250\056\235\024\132\005\165
\267\354\327\143\342\272\065\266\004\010\221\350\332\235\234\366
\146\265\030\254\012\246\124\046\064\063\322\033\301\324\177\032
\072\216\013\252\062\156\333\374\117\045\237\331\062\307\226\132
\160\254\337\114
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Sonera Class 2 Root CA"
# Issuer: CN=Sonera Class2 CA,O=Sonera,C=FI
# Serial Number: 29 (0x1d)
# Not Valid Before: Fri Apr 06 07:29:40 2001
# Not Valid After : Tue Apr 06 07:29:40 2021

# Cert Class CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sonera Class 2 Root CA"

END

# Cert SHA1_HASH MULTILINE_OCTAL
\067\367\155\346\007\174\220\305\261\076\223\032\267\101\020\264
\362\344\232\047

END

# Cert MD5 HASH MULTILINE_OCTAL
\243\354\165\017\056\210\033\372\110\001\116\013\134\110\157\373

END

# Cert Issuer MULTILINE_OCTAL
\060\071\106\101\036\060\011\006\003\125\004\006\023\002\106\111\061
\170\106\015\006\003\125\004\012\023\006\123\157\156\145\162\141
\061\031\060\027\006\003\125\004\003\023\020\123\157\156\145\162
\141\040\010\154\141\163\163\062\040\103\101

END

# Cert Serial Number MULTILINE_OCTAL
\002\001\035
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Camerfirma Chambers of Commerce Root"
#
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\013\141\115
\145\162\146\151\162\155\141\140\123\101\104\013\111\106\040\010
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\167\167\167\167\056\143\150
\141\155\141\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\013\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\013\141\115
\145\162\146\151\162\155\141\140\123\101\104\013\111\106\040\010
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\167\167\167\167\056\143\150
\141\155\141\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\040\157\146\040\013\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\333\241\051\133\127\213\115\166\006\166\341\321\242\212060016
\006003\1250\03517\001001\001\377\004004003\020001\0060060021
\006011\14020601\10001\006370\1202001\001004004003\0020000
\0070600470006003125035021\0400400400600363201034143150
\141115514214516216316215711641001431150141155142
\1451511621631511147156056157162147060470060031125035
\022000400400600362010341431150141155142145162163162
\15715716410014311501411551421451621631511147156056
\157162147060613006003125035040001412010601170600115
\00601013\05306001\0040011201207056012003001060076060
\07400601\0105300601\00500505070020010260601501641164
\160002705075\1431601630561431150141155142145162163
\151114715605615716214705711431601630571431150141155
\14214516216316215711571640561501641155154060015006
\0110520601102063670150011010050050000003202001001
\0000014101122730203220630004241742373373220363032321
\003261357020337104113700423433232112452150471542226
\2072212761012200011622233470361751373662113606135
\1247100011075254111105105334056215060150262011272
\37330309711427201333770767117301675072202244216
\126221704005011215732222405035515514300056210042
\325330317035023307360110327327025427317307107236
\073074064310200011732424273374015120367372623354
\10213725133515531036416531713330116246621601034
\1340453751172116264000130500512727134707425205331
\12103510071061013163571011201256130373203242256312
\327167037347000074235157216344062011035115170064
\17090640742242330463551171613060311722750409042110
\1323761131175003267347130276306062116164036150335
\125011501332630763561421753312003501012165172267356
\264145232041220340252320230274070265163074213370
\334

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate “Camerfirma Chambers of Commerce Root”
# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743278,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743278,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

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CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061
\060\141\360\261
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\260\001\356\024\331\257\051\030\224\166\216\361\151\063\052\204
END
CKA_ISSUER MULTILINE_OCTAL
\060\177\061\103\066\011\060\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\140\123\101\104\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\104\060
\140\006\003\125\004\003\023\031\103\150\141\155\142\145\162\163
\140\015\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Camerfirma Global Chambersign Root"
#
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:20 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Camerfirma Global Chambersign Root"
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:18 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\063\233\153\024\120\044\233\125\001\207\162\204\331\340\057
\303\322\330\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\063\233\153\024\120\044\233\125\001\207\162\204\331\340\057
\303\322\330\351
END
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\001\110\066\003\125\004\006\023\002\105\125\061
\047\060\045\060\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\065\100\006
\036\060\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "XRamp Global CA Root"
#
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
# Inc,OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
# Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before : Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\202\020\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\105\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\11\156\143\061\055\060\053\030\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\020\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\105\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\11\156\143\061\055\060\053\030\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\202\020\015\034\003\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\105\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\11\156\143\061\055\060\053\030\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_SERIALNUMBER MULTILINE_OCTAL
\002\200\202\020\015\034\003\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\105\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\040\123\145\143\165\162\151\164\171\040\123\145\162\166\151\143
\145\163\040\11\156\143\061\055\060\053\030\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,O=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,O=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\001\206\321\353\234\265\101\004\317\060\124\363\114\122
\267\345\130\306
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\013\104\263\312\202\330\000\156\235\017\330\017\222\012\321
END
# Certificate "Go Daddy Class 2 CA"

# Issuer: OU=Go Daddy Class 2 Certification Authority,O=The Go Daddy Group, Inc.,C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O=The Go Daddy Group, Inc.,C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\105\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\141\155\160
\040\123\145\143\165\162\151\164\171\104\123\145\162\166\151\143
\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_VALUE MULTILINE_OCTAL
\060\202\004\000\060\202\002\350\240\003\002\001\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061\041
\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157\040
\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156\143
\056\066\106\106\005\006\003\125\004\010\023\050\107\157\040\104
\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171\106\036\027\015\150\150\064\060\064\060\062\071\061\067
\060\066\062\060\132\027\150\153\064\060\066\062\071\061\067\060
\066\062\060\132\060\143\060\010\130\006\003\125\004\006\023
\002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150
\145\040\107\157\040\104\141\144\144\171\040\107\162\157\165\160
\054\040\111\156\143\035\060\016\010\060\057\006\003\125\004\013\023
\050\017\157\040\104\141\144\144\171\040\103\154\141\163\163\040\163\040
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\151\157\162\151\164\171\106\020\001\040\060\150\156
\010\115\2\061\110\206\367\015\001\010\010\006\003\125\004\006\023
\002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150
\145\040\107\157\040\104\141\144\144\171\040\107\162\157\165\160
\054\040\111\156\143\035\060\016\010\060\057\006\003\125\004\013\023
\050\017\157\040\104\141\144\144\171\040\103\154\141\163\163\040\163\040
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\010\161\165\164\151\157\162\151\164\171\106\020\001\040\060\050\006
\010\110\5\2\061\110\206\367\015\001\010\010\006\003\125\004\006\023
\002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150
\145\040\107\157\040\104\141\144\144\171\040\107\162\157\165\160
\054\040\111\156\143\035\060\016\010\060\057\006\003\125\004\013\023
\050\017\157\040\104\141\144\144\171\040\103\154\141\163\163\040\163\040
\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\101\165\164\151\157\162\151\164\171\106\020\001\040\060\050\006
\010\110\5\2\061\110\206\367\015\001\010\010\006\003\125\004\006\023
\002\125\123\061\041\060\037\006\003\125\004\012\023\030\124\150
\145\040\107\157\040\104\141\144\144\171\040\107\162\157\165\160
\054\040\111\156\143\035\060\016\010\060\057\006\003\125\004\013\023

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\324\343\060\201\125\035\043\004\201\205\060\201\202
\200\202\322\304\260\322\221\324\114\021\161\263\141\131\075\241
\376\335\250\152\322\434\241\147\244\145\060\143\061\013\060\011
\006\003\125\004\006\023\002\012\125\123\061\014\060\037\006\003\125
\004\012\023\030\124\150\145\040\107\157\040\104\141\144\144\171
\104\010\176\157\165\160\054\040\111\156\143\056\061\061\060\057
\006\003\125\004\013\023\050\107\157\040\104\141\144\171\104
\103\154\141\163\163\040\060\024\040\103\145\161\151\151\143
\141\164\151\157\156\040\101\165\164\151\157\162\151\164\171\1202
\001\000\060\014\060\003\125\035\023\004\005\060\003\000\100\1377
\060\015\006\011\053\020\061\110\066\367\015\001\010\005\000\000\003
\202\001\010\009\006\123\363\262\312\076\221\374\022\306\241\001\007
\214\126\167\240\063\006\024\134\220\036\030\136\70\102\460\075\012
\031\137\207\200\021\156\151\134\422\260\027\060\377\064\221\143\162
\070\356\314\034\000\124\303\035\224\040\124\327
\366\345\061\130\003\242\314\136\142\333\224\105\163\265\277\105
\311\044\265\329\202\002\255\043\171\151\125\270\266\115\316\317
\114\132\063\043\350\034\210\252\235\213\101\156\026\311\040\0345
\211\123\361\157\333\321\160\367\176\231\046\040\024\124\045\253\156
\163\205\346\233\041\235\012\154\202\016\250\370\302\014\372\020
\036\154\226\357\207\015\304\017\141\232\55\356\203\053\225\370
\216\222\204\162\017\135\304\035\252\033\355\203\313\027\156\010\274
\353\116\046\266\163\053\344\323\366\114\376\046\161\342\141\021
\164\112\377\127\032\207\017\165\10\056\317\121\115\027\240\002
\022\141\225\329\321\100\262\000\114\356\304\254\020\103\324\624
\236\012\325\225\142\232\015\317\210\020\305\062\014\344\053\237
\105\346\015\237\050\234\261\271\052\132\271\255\067\017\257\035
\177\333\275\237

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Go Daddy Class 2 CA"
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034

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"\217\040\356\047\END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\336\006\045\253\332\375\062\027\014\273\045\027\052\204\147\END
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\120\023\030\124\150\145\040\010\157
\040\014\141\144\144\171\040\107\162\157\165\160\054\040\111\116
\143\056\061\061\060\057\006\003\125\004\013\023\050\010\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\010\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171\END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000\END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Starfield Class 2 CA"
#
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171\END
CKA_ID UTF8 "0"
Open Source Used In Data Center Network Manager 11.5(1) 32829
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc." ,C=US
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After: Thu Jun 29 17:39:16 2034

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "Taiwan GRCA"

# Issuer: O=Government Root Certification Authority,C=TW
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Thu Dec 05 13:23:33 2002
# Not Valid After: Sun Dec 05 13:23:33 2032

cka_label UTF8 "Taiwan GRCA"
cka_cert_sha1_hash multiline_octal
\255\176\034\050\260\144\357\217\140\003\100\040\024\303\320\343
\067\016\265\212
end
cka_cert_md5_hash multiline_octal
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
end
cka_issuer multiline_octal
\060\150\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\006\003\125\004\013\023
\051\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163
\040\062\040\103\143\164\150\157\151\156\151\157\156
\040\010\165\164\150\157\162\151\164\171
end
cka_serial_number multiline_octal
\002\001\000
end
cka_trust_server_auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_email_protection CK TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_BBOOL CK_FALSE

cka_certification_type CK,—CLASS CKO_CERTIFICATE
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "Taiwan GRCA"
cka_subject_multiline_octal
\060\077\061\013\060\001\100\006\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\151\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
end
# Trust for Certificate "Taiwan GRCA"
# Issuer: O=Government Root Certification Authority,C=TW
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Thu Dec 05 13:23:33 2002
# Not Valid After : Sun Dec 05 13:23:33 2032

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Taiwan GRCA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\364\213\021\277\336\253\276\210\053\100\271
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\205\104\123\062\105\037\040\360\363\225\341\045\304\103\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\013\060\011\006\000\31\125\004\006\023\002\124\127\061
\060\060\056\006\000\31\125\004\012\140\047\107\157\166\145\162\156
\151\145\156\164\040\122\157\157\164\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\235\131\132\327\057\302\006\104\245\200\010\151\343
\136\366
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#  Certificate "DigiCert Assured ID Root CA"
# Trust for Certificate "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:fo:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\005\143\270\143\015\142\327\132\273\310\253\036\113\337\265\250
\231\262\115\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\207\316\013\173\052\016\111\000\341\130\161\233\067\250\223\162
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\101\080\003\125\004\006\023\125\123\061
\025\060\023\006\003\125\004\012\023\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\006\023\033\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\347\340\345\027\330\106\376\217\345\140\374\033\360
\060\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\011\11\156\143\061\03\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\040\011\11\156\143\061\03\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\124\165\152\311\131\221
\307\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\257\060\202\002\227\240\003\002\001\002\002\020\010
\073\340\126\220\102\106\261\124\165\152\311\131\221\307\112\060
\015\006\010\115\026\061\11\026\367\015\001\001\005\005\000\060\141
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\060\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\115\11\143\061\03\106\027\006\003\125\004\013\023
\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\124\165\152\311\131\221
\307\112
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\257\060\202\002\227\240\003\002\001\002\002\020\010
\073\340\126\220\102\106\261\124\165\152\311\131\221\307\112\060
\015\006\010\115\026\061\11\026\367\015\001\001\005\005\000\060\141
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\060\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\115\11\143\061\03\106\027\006\003\125\004\013\023
\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END
CKA_VALUE MULTILINE_OCTAL

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# Trust for Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"

# Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Trust for Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\267\356\006\063\342\131\333\255\014\114\232\346\323\217\032
\141\307\334\045
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\164\336\127\134\071\262\323\234\205\203\305\300\145\111\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\103\060\027\006\003\125\004\013\023
\161\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\103\060\03\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\002\254\134\046\152\013\100\233\217\013\171\362\256\106
\045\167
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DST Root CA X3"
#
# Issuer: CN=DST Root CA X3,O=Digital Signature Trust Co.
\354\307\323\054\153\060\312\133\354\331\303\175\307\100\301\030
\024\321\340\350\063\166\111\052\343\077\041\111\223\254\116\016
\257\076\110\313\145\356\374\323\041\017\145\322\052\331\062\217
\214\345\367\167\260\022\173\265\225\300\011\224\323\251\272\355\163
\056\172\014\066\062\203\324\176\212\024\060\315\021\240\341\052
\070\271\171\012\061\375\120\275\200\145\337\267\121\143\203\310
\342\210\141\352\113\141\201\354\122\153\271\242\342\113\032\050
\237\110\243\236\014\332\011\121\076\070\027\056\036\335\040\337\133
\306\062\212\253\056\275\160\255\305\013\320\045\220\164\162\305
\173\152\253\064\326\060\211\377\345\150\023\173\124\013\310\326
\256\354\132\234\222\036\075\144\263\214\306\337\277\311\101\160
\354\026\162\325\046\354\070\125\071\103\320\374\375\030\134\100
\361\127\353\325\232\223\215\035\327\322\045\271\130\330\337\301
\025\002\072\253\332\156\361\076\056\365\154\010\234\074\326\203
\151\344\020\233\031\052\266\051\127\343\345\075\233\237\360\002
\135\002\003\001\000\000\012\431\102\069\010\060\017\006\003\125\035
\023\001\001\137\004\005\060\003\001\001\137\006\006\003\125
\035\017\001\001\137\006\004\004\003\002\001\001\006\006\035\006\031\25
\035\016\004\026\004\024\023\161\244\173\054\161\137\233\334\11
\113\220\165\377\304\025\140\025\211\020\060\015\006\011\052\206
\110\206\367\150\010\001\100\050\050\003\032\202\010\001\000\243\032
\054\233\027\000\134\251\010\363\356\050\146\067\072\277\203\030\077
\113\030\012\240\225\040\135\344\331\131\104\322\076\015\076\275
\121\211\134\016\037\371\060\020\202\234\164\032\035\176\230\032\335
\331\023\113\026\040\104\344\221\135\134\374\175\245\333\152\234\345
\376\346\375\340\116\335\267\000\072\265\160\111\257\362\345\353
\002\236\132\110\022\130\031\111\224\072\213\166\110\304\030\036\150\331
\113\036\002\132\360\010\136\261\125\155\215\134\131\206\213\156\351
\122\136\026\132\372\271\146\063\125\111\333\316\342\247\026\163
\010\73\131\053\134\231\260\067\110\137\343\126\111\136\365\317\017\014
\160\062\073\306\060\104\273\123\162\155\103\365\046\110\232\122
\147\267\120\253\373\147\166\161\170\333\015\242\126\024\023\071
\044\061\120\052\242\250\002\132\260\107\341\033\120\007\274\002\011
\120\000\353\141\140\233\026\274\120\311\022\346\322\175\221
\123\371\075\062\215\145\264\351\174\261\127\166\352\305\266\050
\071\277\025\145\034\130\366\167\226\152\012\125\167\013\330\221
\013\004\216\007\333\051\266\012\356\235\202\065\065\020

END

CKA_NSS MOZILLA CA POLICY CK_BBBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBBOOL CK_FALSE

# Trust for Certificate "DST Root CA X3"
# Issuer: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Subject: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Not Valid Before: Sat Sep 30 21:12:19 2000
# Not Valid After : Thu Sep 30 14:01:15 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DST Root CA X3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\332\311\002\117\124\330\366\337\224\223\137\261\163\046\070\312\152\327\174\023
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\101\003\122\334\017\367\120\033\026\360\002\216\272\157\105\305
END
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\044\060\042\006\003\125\004\012\023\033\104\151\147
\151\164\141\154\040\123\151\147\156\141\164\165\162\145\040\124
\162\165\163\164\040\103\157\056\061\027\060\025\006\033\125\004
\003\023\016\104\123\124\040\122\157\157\164\040\103\101\040\130
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\257\260\200\326\243\047\272\211\060\071\206\056\370
\100\153
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SwissSign Platinum CA - G2"
#
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\111\061\013\060\001\100\060\003\125\004\006\023\002\103\110\061
```
\373\251\235\065\102\104\261\034\024\163\201\317\052\001\065\0232
\061\325\055\217\155\204\337\200\115\127\343\077\305\204\165\332
\211\306\060\273\353\217\313\042\010\240\256\252\361\003\154\072
\113\155\112\245\016\162\306\126\153\041\102\116\043\045\024\150
\256\166\012\174\014\007\160\144\371\232\057\366\005\071\046\306
\014\217\031\177\103\161\166\364\133\025\057\333\141\135\346\147
\057\077\010\224\371\140\264\230\061\332\164\361\204\122\316\111\15
\137\373\140\130\321\173\330\031\155\211\242\273\040\037\235\161
\213\13\062\233\022\23\075\071\157\222\122\065\254\222\224\242\333
\030\032\174\037\352\257\166\005\026\335\147\047\302\176\034\007
\042\041\363\100\012\033\064\007\104\023\302\204\152\216\337\031
\132\277\177\353\035\342\032\070\321\134\257\107\222\153\200\265
\060\245\311\215\330\253\061\201\037\337\302\146\067\323\223\251
\205\206\171\145\322
END

CKA_NSS_MOZILLA_CA_POLICY CK_BOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BOOL CK_FALSE

# Trust for Certificate "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BOOL CK_TRUE
CKA_PRIVATE CK_BOOL CK_FALSE
CKA_MODIFIABLE CK_BOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\126\340\372\300\073\217\030\043\125\030\345\323\021\312\350\302
\103\061\253\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\126\340\372\300\073\217\030\043\125\030\345\323\021\312\350\302
\103\061\253\146
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\126\340\372\300\073\217\030\043\125\030\345\323\021\312\350\302
\103\061\253\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\126\340\372\300\073\217\030\043\125\030\345\323\021\312\350\302
\103\061\253\146
END

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```
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SwissSign Gold CA - G2"
#
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\015\026\006\011\006\003\125\004\006\023\002\010\03\010\006
\025\060\023\006\003\125\004\012\023\014\012\016\015\016\013
\151\147\156\040\010\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\015\026\006\011\006\003\125\004\006\023\002\010\03\010\006
\025\060\023\006\003\125\004\012\023\014\012\016\015\016\013
\151\147\156\040\010\107\061\037\060\035\006\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\107\157\154\144\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\273\100\034\103\365\136\117\260
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\272\206\022\003\242\240\003\002\001\002\001\101\000
\273\100\010\03\365\136\117\260\006\006\015\006\011\105\2\06\110\206
\367\101\000\100\01\105\05\000\006\105\06\101\106\011\106\003\125
\004\006\023\002\013\010\061\025\060\023\006\003\125\004\012\023
\104\123\167\151\163\163\123\151\147\156\040\101\107\061\037\060
\035\006\003\125\004\003\023\026\123\167\151\163\163\123\151\147
\156\040\107\157\154\144\040\103\101\040\055\040\107\062\060\036
# Trust for Certificate "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036
# Trust for Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Not Valid After: Sat Oct 25 08:32:46 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"

END
# Certificate "GeoTrust Primary Certification Authority"

# Issuer: CN=GeoTrust Primary Certification Authority, O=GeoTrust Inc., C=US
# Subject: CN=GeoTrust Primary Certification Authority, O=GeoTrust Inc., C=US
# Not Valid Before: Mon Nov 27 00:00:00 2006
# Not Valid After: Wed Jul 16 23:59:59 2036

**CKA_CLASS** CK_OBJECT_CLASS CKO_CERTIFICATE
**CKA_TOKEN** CK_BBOOL CK_TRUE
**CKA_PRIVATE** CK_BBOOL CK_FALSE
**CKA_MODIFIABLE** CK_BBOOL CK_FALSE
**CKA_LABEL** UTF8 "GeoTrust Primary Certification Authority"
**CKA_CERTIFICATE_TYPE** CK_CERTIFICATE_TYPE CKC_X_509
**CKA_SUBJECT** MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\061\060\057\006\003\125\004\003
\023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141
\162\171\040\013\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END

**CKA_ID** UTF8 "0"

**CKA_ISSUER** MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\061\060\057\006\003\125\004\003
\023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141
\162\171\040\013\145\162\164\151\146\151\143\141\164\151\157\156
\040\101\165\164\150\157\162\151\164\171
END

**CKA_SERIAL_NUMBER** MULTILINE_OCTAL
\002\020\030\254\265\152\375\151\266\025\072\143\154\257\332\372\304\241
END

**CKA_VALUE** MULTILINE_OCTAL
\060\202\003\174\060\020\002\144\240\003\002\001\002\002\020\030\254\265\152\375\151\266\025\072\143\154\257\332\372\304\241
END
# Trust for Certificate "GeoTrust Primary Certification Authority"
# Issuer: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 27 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\012\014\021\026\033\037\042\047\062\067\070\102\114\122\124\130\134\141\145\151\157\162\164\166\170\174\177

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\020\022\025\028\031\034\037\040\043\046\049\052\055\058\061\064\067\070\073\076\079\082\085\088\091

# Certificate "thawte Primary Root CA"

#
# Issuer: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division, O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division, O="thawte, Inc.",C=US
# Not Valid Before: Fri Nov 17 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\015\001\020\001\001\000\003\125\004\006\023\002\125\012\015\020\004\120\023\001\040\006\056\067\061\062\002\125\004\016\020\010\006\003\125\010\141\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013\023\057\050\143\051\040
\062\060\066\006\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\037\060\035\006
\003\125\004\003\023\026\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\020\125\016\013\060\001\11\006\003\125\004\006\023\002\125\012\015\020\001\001\000\003\125\004\006\023\002\125\012\015\020\001\001\000\003\125\004\006\023\002\125\012
\061\025\006\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\057\050\143\051\040
\062\060\066\006\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\106\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\037\060\035\006
\003\125\004\003\023\026\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\116\325\127\040\325\355\354\111\364\057\316\067\333
\053\155
END

CKA_VALUE MULTILINE_OCTAL
\060\020\004\040\060\020\020\003\010\240\003\020\001\002\002\020\064
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\000\003
\202\001\000\000\017\021\300\011\13\263\221\266\374\360\035\11\147\324
\015\156\105\276\125\350\223\322\316\003\077\355\332\045\326\003\035
\127\313\036\072\166\240\114\354\120\166\350\144\162\014\244\251
\361\270\213\326\326\207\204\273\062\345\101\021\300\016\7\331\263
\140\232\353\330\321\156\104\104\251\124\000\135\125\142\035
\167\270\134\216\110\111\174\234\073\127\021\254\255\163\067\216
\057\170\134\220\150\017\331\40\364\374\007\075\042\040\027
\304\027\026\351\04\330\162\371\310\143\337\026\057\025\251
\076\375\152\047\266\153\353\132\272\023\037\325\343\115\144\012
\235\023\310\141\272\365\071\034\027\272\270\275\173\042\177\366
\376\254\010\171\345\254\020\157\075\217\033\171\166\213\304\067
\263\041\030\024\345\066\000\353\143\040\023\271\135\137\603\004
\273\101\310\031\002\371\110\43\040\236\201\316\102\323\326\077
\054\166\323\143\234\131\335\217\246\341\016\240\056\101\136\7056
\122\510\731\172\437\506\363\366\013\141\117\176\221\053\201\017
\302\047\060\356\247\020\135\067\217\134\071\053\344\004\360\173
\215\126\214\150
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "thawte Primary Root CA"
# Issuer: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Fri Nov 17 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\221\306\326\356\076\212\310\143\204\345\110\302\231\051\134\165
\154\201\173\201
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\214\312\334\013\042\231\163\365\276\162\254\101\032\021\250\330\022
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\251\061\013\060\001\11\060\003\125\004\060\023\002\125\123
\061\025\060\023\060\003\125\004\012\023\014\164\150\141\167\164
[Certificate]

Certificate "VeriSign Class 3 Public Primary Certification Authority - G5"

Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US


Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

Not Valid Before: Wed Nov 08 00:00:00 2006


[OpenSSL]

# Certificate "VeriSign Class 3 Public Primary Certification Authority - G5"

# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US


# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

# Not Valid Before: Wed Nov 08 00:00:00 2006

# Not Valid After: Wed Jul 16 23:59:59 2036


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Open Source Used In Data Center Network Manager 11.5(1) 32864
\336\375\250\202\052\155\050\037\015\013\304\345\347\032\046\031
\341\364\021\157\020\265\225\374\347\102\005\062\333\316\235\121
\136\050\266\326\205\323\133\357\245\175\105\100\001\162\216\267\016
\153\016\006\373\063\065\110\161\270\235\047\213\304\145\137\015
\206\166\234\104\172\366\225\134\366\135\062\010\063\244\124\266
\030\077\150\134\362\102\112\205\070\124\203\137\321\350\054\362
\254\021\326\250\355\143\152
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "VeriSign Class 3 Public Primary Certification Authority - G5"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.".,C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.".,C=US
# Not Valid Before: Wed Nov 08 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G5"

END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\116\266\325\170\011\233\034\317\137\130\036\255\126\276\075\233
\147\104\245\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\313\027\344\061\147\076\342\011\137\105\127\223\363\012\372\034
END

CKA_ISSUER_MULTILINE_OCTAL
\060\201\131\206\101\130\060\011\006\003\125\004\006\023\002\125\123
\061\127\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\003\50\006\031\125
\004\013\023\026\126\145\156\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\161\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\150\143\051\040\062\060\060\066\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\144\140\165\163
\145\040\157\156\154\171\061\105\060\103\060\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030\131\320
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "SecureTrust CA"
#
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:2f:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After: Mon Dec 31 19:40:55 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\100\060\013\060\111\010\006\100\125\100\043\006\036\125\004\012\023\123\145\143\165\161\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\060\036\125\004\030\023\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\060\013\060\111\010\006\100\125\100\043\006\036\125\004\012\023\123\145\143\165\161\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\060\036\125\004\030\023\123\145\143\165
\162\145\124\162\165\163\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\360\216\134\010\026\245\255\102\177\360\353\047\030\131\320
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\270\060\202\002\240\040\003\002\001\002\002\020\014
\360\216\134\010\026\245\255\102\177\360\353\047\030\131\320

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CKA_NSS_MOZILLA_CA_POLICY BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER BBOOL CK_FALSE

# Trust for Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number: 0c:f0:8e:5c:08:16:a5:ad:42:7f:0eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN BBOOL CK_TRUE
CKA_PRIVATE BBOOL CK_FALSE
CKA_MODIFIABLE BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_ISSUER MULTILINE_OCTAL
\"CN=SecureTrust CA,O=SecureTrust Corporation,C=US\"
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\"0c:f0:8e:5c:08:16:a5:ad:42:7f:0eb:27:18:59:d0\"
END

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\"09:9d:ea:2d:a9:a2:d1\"

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\"7f:0eb:27:18:59:d0\"

CKA_TRUST_SERVER_AUTH TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TrUST_EMAIL_PROTECTION TRUST CKT_NSS_MUST_VERIFY_TRUST
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# Certificate "Secure Global CA"

# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After: Mon Dec 31 19:52:06 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
\177\302\303\230\034\153\116\026\200\353\172\170\145\105\242\000
\032\257\014\015\125\144\046\110\270\222\271\361\264\120\051\1362
\117\043\037\332\154\254\037\104\341\335\043\170\121\133\307\026
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Secure Global CA"
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\104\163\132\345\201\220\037\044\206\141\106\036\073\234\304
\137\365\072\033
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\317\364\047\015\324\355\334\145\026\111\155\075\332\277\156\336
END

CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\000\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\007\126\042\244\350\324\212\211\15\364\023\310\360\370
\352\245
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "COMODO Certification Authority"
#
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
# Trust for Certificate "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:e5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\061\277\236\367\117\236\266\311\325\246\014\272\152\276\321\367\275\357\173

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\134\110\334\367\102\162\354\126\224\155\034\314\161\065\200\165 END

CKA_ISSUER MULTILINE_OCTAL
\060\201\200\106\101\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\140\061\047\060\045\006
\003\125\004\003\023\036\103\117\115\117\104\104\010\03\145\162
// Certificate "Network Solutions Certificate Authority"
#
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_ID UTF8 "Network Solutions Certificate Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Network Solutions Certificate Authority"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Trust for Certificate "Network Solutions Certificate Authority"
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\370\243\303\357\347\263\026\006\113\203\220\074\041\144\140
\040\345\337\316
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\363\246\026\300\372\153\035\131\261\055\226\115\016\021\056
END

CKA_ISSUER MULTILINE_OCTAL
\060\142\066\101\036\066\011\006\003\125\004\006\23\002\125\123\061
\041\060\037\066\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056

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# Certificate "COMODO ECC Certification Authority"

# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\175\010\306\032\207\275\030\250\163\275\046\312\140\014\235\316
\231\237\317\134\017\060\341\276\024\061\135\002\060\024\364\223
\074\111\247\063\172\220\106\107\263\143\175\023\233\116\267\157
\030\067\200\123\376\135\040\340\065\232\066\321\307\001\271\134
\334\335\363\377\035\054\072\026\127\131\122\071\1326
END
CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER DISTRUST_ASKCK_BBOOL CK_FALSE
CKA_NSS_EMAIL DISTRUST_ASKCK_BBOOL CK_FALSE

# Trust for Certificate "COMODO ECC Certification Authority"
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038
CKA_CLASS CK OBJECT CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\002\020\105\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\060\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\017\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\011\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\101\010\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "OISTE WISeKey Global Root GA CA"

# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKA_CERTIFICATE_TYPE CK_Certificate_Type CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\121\021\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\012\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\013\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\066\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\004\066\060\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\131\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\121\021\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\012\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\013\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\066\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\004\066\060\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\131\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\103\175\361\322\050\124 \337\232
# Trust for Certificate "OISTE WISeKey Global Root GA CA"
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\042\241\341\132\352\026\065\041\370\230\071\152\106\106\260
\104\033\017\251

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\274\154\121\063\247\351\132\352\026\065\041\370\230\071\152\106\106\260
\104\033\017\251

CKA_ISSUER MULTILINE_OCTAL
\060\201\121\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113


END CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124\337\232

END CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "Certigna"

# # Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\042\060\040\000\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\150\060\046\006\003\125\004\003\023\037\117\111
\123\144\105\040\127\111\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\104\010\103\101

END CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141

END CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\075\162\307\364\153\037\201\103\175\361\322\050\124

END
cka_nss_mozilla_ca_policy cka_boolean cka_true
cka_nss_server_distrust_after cka_boolean cka_false
cka_nss_email_distrust_after cka_boolean cka_false

# Trust for Certificate "Certigna"
# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027
cka_class cka_object_class cko_nss_trust
cka_token cka_boolean cka_true
cka_private cka_boolean cka_false
cka_modifiable cka_boolean cka_false
cka_label utf8 "Certigna"
ckaIssuer multinline_octal "Certigna"
cka_serial_number multinline_octal \002\113\000\376\334\343\001\157\110\377
cka_cert_sha1_hash multinline_octal \261\056\023\143\105\206\244\157\032\262\140\150\067\130\055\304
\254\375\224\227
cka_cert_md5_hash multinline_octal \253\127\246\133\175\012\200\031\265\130\046\050\136\137\137
cka_issuer multinline_octal \060\064\061\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\17\006\003\125\004\003\014\010\103\145
\162\164\151\147\156\141
cka_serial_number multinline_octal \002\011\000\376\334\343\001\017\311\110\377
cka_trust_server_auth cka_trust ckt_nss_trusted_delegator
Certificate "Cybertrust Global Root"

Issuer: CN=Cybertrust Global Root,O="Cybertrust, Inc"

Serial Number:04:00:00:00:00:01:0f:85:aa:2d:48

Subject: CN=Cybertrust Global Root,O="Cybertrust, Inc"

Not Valid Before: Fri Dec 15 08:00:00 2006

Not Valid After : Wed Dec 15 08:00:00 2021


Class CK_OBJECT_CLASS CKO_CERTIFICATE

Token CK_BBOOL CK_TRUE

Private CK_BBOOL CK_FALSE

Modifiable CK_BBOOL CK_FALSE

Label UTF8 "Cybertrust Global Root"

Certificate TYPE CK_CERTIFICATE_TYPE CKC_X_509

Subject MULTILINE_OCTAL

Issuer MULTILINE_OCTAL

Serial Number MULTILINE_OCTAL

Value MULTILINE_OCTAL

ID UTF8 "0"

Issuer MULTILINE_OCTAL

Serial Number MULTILINE_OCTAL

Value MULTILINE_OCTAL
# Trust for Certificate "Cybertrust Global Root"
# Issuer: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Serial Number:04:00:00:00:00:01:0f:85:aa:2d:48
# Subject: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After: Wed Dec 15 08:00:00 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cybertrust Global Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL\137\103\345\261\277\370\170\214\254\034\307\312\112\232\306\042\053\314\064\306
CKA_CERT_MD5_HASH MULTILINE_OCTAL\162\344\112\207\343\151\100\200\167\352\274\343\364\377\360\034
CKA_ISSUER MULTILINE_OCTAL\060\073\061\030\060\026\006\003\125\004\012\023\017\103\171\142\145\162\164\162\165\163\164\040\107\154\157\142\141\154\040\122\157\157\164
CKA_SERIAL_NUMBER MULTILINE_OCTAL\002\013\004\000\000\000\000\000\000\001\017\205\252\055\110
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After: Wed Dec 20 02:31:27 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\260\060\020\003\230\240\003\002\001\200\002\200\020\025
\310\275\145\107\134\257\270\227\000\136\344\006\322\274\235\060
\015\006\011\052\206\110\206\367\015\001\000\050\050\000\060\136
\061\103\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\014\000\003\125\004\012\014\032\103\150\165\156\147\150\167\141
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164
\144\056\061\052\206\050\006\003\125\004\013\014\041\145\120\113
\114\000\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIALMULTILINE_OCTAL
\002\020\020\020\020\020\020\020\020\020\020\020\020\020\020\020

---

Open Source Used In Data Center Network Manager 11.5(1) 32891
# Trust for Certificate "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number:15:c8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034

export CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
export CKA_TOKEN CK_BBOOL CK_TRUE
export CKA_PRIVATE CK_BBOOL CK_FALSE
export CKA_MODIFIABLE CK_BBOOL CK_FALSE
export CKA_LABEL UTF8 "ePKI Root Certification Authority"
export CKA_CERT_SHA1_HASH MULTILINE_OCTAL \147\145\015\361\176\176\133\202\100\244\364\126\113\317\342 \075\151\306\360
export CKA_CERT_MD5_HASH MULTILINE_OCTAL
# Certificate "certSIGN ROOT CA"

# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\033\056\000\031\242\046\006\220\075\255\376\157\025\150\323\153\263

END

CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\001\110\066\003\125\004\006\023\002\122\127\061
\043\060\041\006\003\125\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\143\157\150\155\040\103\157\056\054\040
\141\164\144\056\061\052\060\050\006\003\125\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\310\275\145\107\134\257\270\227\000\136\344\006\322
\274\235

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number: 20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\372\267\356\066\227\046\142\373\055\260\052\366\277\003\375\350\174\113\057\233
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\030\230\300\326\351\072\374\371\260\365\014\367\113\001\104\027
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\001\110\006\003\125\004\006\023\002\122\117\061\021\060\017\006\003\125\004\012\023\010\143\145\162\164\123\111\107\116\006\027\006\003\125\004\013\023\020\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GeoTrust Primary Certification Authority - G3"

# Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\012\030\061\013\060\001\100\060\003\125\004\000\023\002\125\123
\061\012\026\060\024\000\060\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\000\003\125\004
\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\033\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\1\30\061\013\060\001\100\060\003\125\004\000\023\002\125\123
\061\012\026\060\024\000\060\003\125\004\012\023\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\000\003\125\004
\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\154\171\061\066\060\064\006\003\125\004\033\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\254\156\224\031\262\171\113\101\366\047\251\303\030
\017\037

END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\376\060\020\002\034\046\000\03\002\001\002\020\025
# Trust for Certificate "GeoTrust Primary Certification Authority - G3"
# Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only.O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only.O=GeoTrust Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\003\236\355\270\013\347\240\074\151\123\211\073\040\322\331\062
\072\114\052\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\265\350\064\066\311\020\104\130\110\160\155\056\203\324\270\005
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\123\060\011\106\003\125\004\006\023\002\125\123
\061\202\060\024\006\003\125\004\012\203\015\107\145\157\124\162
\165\163\164\040\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\104\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\111\156\143\056\040\055\040\106\157\162\040
\141\165\164\150\157\162\151\172\145\144\040\165\163\145\040\157
\156\145\171\061\066\060\064\006\003\125\004\003\023\055\107\145
\157\121\162\165\163\164\040\120\162\151\155\141\162\171\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\254\156\224\031\262\171\113\101\366\047\251\303\030
\017\037

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "thawte Primary Root CA - G2"
#
# Issuer: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.".,C=US
# Subject: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.".,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
\060\201\204\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\107\060\066\006\003\125\004\013
\023\057\050\143\051\140\062\060\060\067\040\164\150\141\167\164
\145\054\040\111\156\143\056\040\055\040\106\157\162\040\141\165
\164\150\157\162\151\172\145\144\040\165\163\145\040\157\156\154
\171\061\044\060\042\006\003\125\004\003\23\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\101\040\055\040\107\062
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\013\060\011\006\003\125\004\006\023\002\125\123
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "thawte Primary Root CA - G2"
# Issuer: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.".C=US
# Subject: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc.".C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G2"

END
# Certificate "thawte Primary Root CA - G3"

# Issuer: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"

CKA_ID UTF8 "0"

END

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CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

To use this certificate, set it as a trusted certificate in Firefox:

1. Open Firefox.
2. Click on the three dots in the top right corner and select "Settings".
3. Click on "Privacy & Security".
4. Click on "Certificate Manager".
5. Select the certificate and click on "Details".
6. Click on the "Trust" tab and select "Always trust this certificate".
7. Click on "OK".

This will ensure that the certificate is trusted in Firefox and can be used to establish a secure connection.
# Certificate "GeoTrust Primary Certification Authority - G2"

# Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only.O=GeoTrust Inc.,C=US
# Serial Number:3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:c3:6b
# Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only.O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GeoTrust Primary Certification Authority - G2"
# Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only.
O=GeoTrust Inc.,C=US
# Serial Number:3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:c3:6b
# Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only.
O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "VeriSign Universal Root Certification Authority"

# Issuer: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): 8E:AD:B5:01:AA:4D:81:E4:8C:1D:D1:E1:14:00:95:19

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Universal Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END

#Trust for Certificate "VeriSign Universal Root Certification Authority"
#Issuer: CN=VeriSign Universal Root Certification Authority, OU="(c) 2008 VeriSign, Inc. - For authorized use only", OU=VeriSign Trust Network, O="VeriSign, Inc.", C=US
#Subject: CN=VeriSign Universal Root Certification Authority, OU="(c) 2008 VeriSign, Inc. - For authorized use only", OU=VeriSign Trust Network, O="VeriSign, Inc.", C=US
#Not Valid Before: Wed Apr 02 00:00:00 2008
#Not Valid After: Tue Dec 01 23:59:59 2037
#Fingerprint (MD5): 8E:AD:B5:01:AA:4D:81:E4:8C:1D:D1:E1:14:00:95:19

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "VeriSign Universal Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\171\312\065\146\207\162\060\115\060\245\373\207\073\017\247
\173\267\015\124

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\126\255\265\001\252\115\201\344\214\035\321\341\024\000\225\031
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\275\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\250\060\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\041\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\060\070\000\003
\125\004\013\023\026\061\050\143\051\040\062\060\060\070\000\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\070\060\066\060\003\125\004\003\023

Open Source Used In Data Center Network Manager 11.5(1) 32912
Certificate "VeriSign Class 3 Public Primary Certification Authority - G4"

Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4, OU="(c) 2007 VeriSign, Inc. - For authorized use only", O=VeriSign Trust Network, C=US


Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4, OU="(c) 2007 VeriSign, Inc. - For authorized use only", O=VeriSign Trust Network, C=US

Not Valid Before: Mon Nov 05 00:00:00 2007
Not Valid After: Mon Jan 18 23:59:59 2038


CLASS CK_OBJECT_CLASS CK_CERTIFICATE

PRIVATE CK_BBOOL CK_TRUE

MODIFIABLE CK_BBOOL CK_FALSE

LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G4"

CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

SUBJECT MULTILINE_OCTAL

ID UTF8 "0"

ISSUER MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "VeriSign Class 3 Public Primary Certification Authority - G4"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "VeriSign Class 3 Public Primary Certification Authority - G4"
# Certificate "NetLock Arany (Class Gold) Ftanúsvány"

# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsvány"
CKA_CERTIFICATE_TYPE CK_Certificate_Type CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\247\061\013\060\001\110\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\155\151\141\144\303\263\153\040\010\106\305\221\164\141\156\303
\127\21\163\303\255\164\166\303\241\156\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\247\061\013\060\001\110\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\003\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\014\056\124\141\156\303\272\163\303\255\164\166\303
\241\156\171\155\151\141\144\303\263\153\040\010\106\305\221\164\141\156\303
\127\21\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\054\344\000\020
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\025\060\202\002\375\240\003\002\001\002\002\006\111
\101\054\344\000\020\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\060\201\247\061\013\060\011\006\003\125\004\006
\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102
\165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\004
\014\014\116\145\164\141\156\171\155\151\141\144\303\263\153\040\012
\014\014\116\145\164\141\156\171\155\151\141\144\303\263\153\040\050
\103\154\141
\163\163\040\010\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\111\101\054\344\000\020
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\025\060\202\002\375\240\003\002\001\002\002\006\111
\101\054\344\000\020\060\015\006\011\052\206\110\206\367\015\001
\001\013\005\000\060\201\247\061\013\060\011\006\003\125\004\006
\023\002\110\125\061\021\060\017\006\003\125\004\007\014\010\102
\165\144\141\160\145\163\164\061\025\060\023\006\003\125\004\004
\014\014\116\145\164\141\156\171\155\151\141\144\303\263\153\040\012
\014\014\116\145\164\141\156\171\155\151\141\144\303\263\153\040\050
\103\154\141
\163\163\040\010\157\154\144\051\040\106\305\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
Open Source Used in Data Center Network Manager 11.5(1) 32918
# Trust for Certificate "NetLock Arany (Class Gold) Ftanúsítvány"
# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanúsítvány"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
0060101077131077025241004240151244153251003320006

CKA_CERT_MD5_HASH MULTILINE_OCTAL
30524126737716333532633270640620303337374074255210

CKA_CERT_ISSUER MULTILINE_OCTAL
0602012470610130600110060003125004006023002110125
0610210600170060031250040070140101021651441141160
1451631640061025060023006003125004012014011161145
164114157143153040113146164056061067600650660003
1250040130140561241411156303272163303255164166303
241156171153151141144303263153040050103145162164
15111461151143141164115115711560401231451621661511143
1451631051061065060630060031250040003140541161145
1641141571431530401101621411561710400501031541141
163163040107157154144401040106305221164141156303
272163303255164166303241156171

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00200611111010543440000020

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED(delegate)
# Certificate "Hongkong Post Root CA 1"

# Issuer: CN=Hongkong Post Root CA 1, O=Hongkong Post, C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1, O=Hongkong Post, C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\12\015\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\12\015\163\164\040
\122\157\157\164\040\103\101\040\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\12\015\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\12\015\163\164\040
\122\157\157\164\040\103\101\040\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\060\060\202\002\030\240\003\020\001\002\002\002\003
\350\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\060\017\061\013\060\011\006\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\12\015\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\12\015\163\164\040
\122\157\157\164\040\103\101\040\061

END
# Trust for Certificate "Hongkong Post Root CA 1"
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\001\110\060\003\125\004\006\023\002\112\120\061
\053\060\051\100\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\135
\162\166\151\143\145\163\040\011\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\001\110\060\006\003\125\004\006\023\002\112\120\061
\053\060\051\100\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\135
\162\166\151\143\145\163\040\011\156\143\056\061\034\060\032
\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\155\060\202\002\125\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\130\061\103\060\011\100\006\003\125\004\006\023\002\112\120\061\053
\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040\103
\145\162\164\151\146\151\143\141\164\151\157\156\040\123\135\162
\161\143\143\145\163\054\040\111\156\143\056\061\034\060\032
\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061

END

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\304\237\110\370\363\163\240\234\036\275\370\133\261\303\145
\307\330\021\263
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\264\200\223\362\165\344\314\327\362\352\046
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040
\103\145\162\164\151\146\151\143\141\164\151\157\156\040\123\145
\162\166\151\143\145\163\054\040\111\156\143\056\061\034\060\032
\006\003\125\004\003\023\023\123\145\143\165\162\145\123\151\147
\156\040\122\157\157\164\103\101\061\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Microsec e-Szigno Root CA 2009"
#
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\000\012\062\020\151\156\146\157\100\045\055\163\172\151\147
# Trust for Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\337\164\376\134\364\017\112\200\371\134\067\175\124\332\221
\341\001\061\216
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\111\364\003\274\104\055\203\276\110\151\175\051\144\374\261
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\024\006\003\125\004\012\014\015\115\151
\143\162\157\163\145\143\040\114\164\144\056\061\047\060\045\006
\003\125\004\003\014\036\115\151\143\162\157\163\145\143\040\145
\055\123\172\151\147\156\157\040\122\157\157\164\040\103\101\040
\062\060\060\071\061\037\060\035\006\011\052\206\110\206\367\015
\001\011\001\026\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\302\176\103\004\116\107\077\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificates "GlobalSign Root CA - R3"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number: 04:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

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\136\270\227\357\255\167\267\144\232\172\277\137\301\023\357\233
\142\373\015\154\340\124\151\016\251\000\333\215\56\351\120\333\161
\166\306\151\020\50\202\027\002\003\010\000\001\243\102\060\100\060
\016\006\003\125\035\017\001\001\377\004\004\003\002\000\100\060
\017\006\003\125\035\023\000\100\137\007\004\050\060\000\000\000\032\002
\001\000\100\013\100\000\333\300\120\376\310\014\357\367\226\124
\105\111\127\232\260\000\011\101\254\263\023\206\206\050\000\070\063\312
\153\346\164\271\272\000\055\256\244\012\323\236\365\236\161\172\121
\277\163\147\112\203\037\014\173\170\340\257\156\154\157\003\051
\216\063\071\105\033\216\344\271\127\154\252\374\022\226\354\123
\306\055\344\044\154\271\222\143\373\334\123\150\147\126\076\203
\270\170\065\041\303\111\150\376\163\163\032\012\123\252\314\122\0212
\351\136\013\060\214\225\335\172\130\050\032\057\035\336\315\000
\067\101\127\355\014\155\327\123\050\227\176\363\147\004\036\025
\327\212\226\264\323\366\114\140\074\244\114\140\333\163\163\163\166\164\027
\231\130\037\172\016\343\055\010\255\012\034\054\377\074\025\3125
\016\017\221\176\066\335\303\127\111\276\341\056\055\174\140\213
\303\011\121\230\043\235\316\167\062\153\224\001\125\023\134\170\054
\063\037\072\073\345\322\206\100\316\073\054\024\61\170\031\114\057
\024\227\356\333\125\157\337\020\043\356\005\051\115\275\050\330\162
\316\323\142\120\145\306\353\222\227\203\061\133\126\263\265\312\017
\130\077\137
END

CKA_NSS MOZILLA CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GlobalSign Root CA - R3"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\326\233\126\021\110\360\034\167\305\105\170\301\011\046\337\133
\205\151\166\255
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\337\270\111\312\005\023\125\356\055\272\032\030\076\260\050
END

CKA_ISSUER MULTILINE_OCTAL
\060\141\140\159\141\157\151\147\156\040\122\157\157\164\040\103\101\104
\055\040\122\103\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\040\123\023\012\010\107
\154\157\142\141\154\123\151\147\156\040\123\012\010\107
\154\157\142\141\154\123\151\147\156
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\010\104\130\123\101
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
#
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\001\11\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\140\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\13\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\001\11\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\140\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\13\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
# Trust for Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\072\164\172\354\273\243\226\246\302\344\342\310\233\300\303

END

CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\000\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\003\140\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137

END

CKA_TRUST/fonts/112\324\137\347\275\150\173\145\362\025\036\322\072\251\055\351
\026\110\364\262\274\310\214\222\305\235\227\235\162\066\274\064
\200\064\153\213\132\222\300\270\027\355\354\166\123\365\044\000
\214\263\042\350\113\174\125\036\235\372\243\024\273\145\205\156
\156\117\022\176\012\074\235\225

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "Izenpe.com"

# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After: Sun Dec 13 08:27:25 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
\161\250\362\045\173\264\221\317\344\261\261\346\275\125\164\154
\005\060\015\006\011\052\206\110\206\367\150\001\001\013\005\000
\003\202\002\001\001\001\017\264\140\206\112\237\114\210\072\300\313
\016\245\026\175\237\271\110\137\030\217\010\142\066\366\315\031
\132\252\253\325\366\221\175\256\161\363\077\263\016\170\205\233
\225\244\047\011\02\112\174\110\072\265\015\174\263\014\212
\121\170\254\225\023\336\036\375\175\270\032\220\114\253\222\003
\307\355\102\001\136\017\330\261\137\224\222\341\140\155\256\172
\130\111\252\306\051\356\133\111\137\047\050
\044\333\264\025\165\256\015\210\272\056\163\300\275\130\207\345
\102\362\353\116\356\060\060\042\231\132\067\321\130\044\114\154\201
\354\276\155\046\346\034\344\102\040\236\107\260\254\203\111\160
\054\065\332\257\066\064\264\315\073\370\062\250\357\343\170\211
\373\215\105\054\332\234\270\176\100\034\141\347\076\242\222\054
\113\362\315\372\230\066\051\377\363\362\173\251\037\056\240\223
\127\053\336\205\003\371\151\067\073\312\363\170\152\005\264\305\061
\170\211\354\172\247\205\341\271\173\074\336\276\036\171\204\316
\237\160\016\131\130\065\056\220\052\061\313\134\105\172\101\124
\056\063\233\239\064\116\146\173\111\253\144\127\232\010\063\017\1235
\162\120\143\246\230\113\300\062\275\110\155\330\071\203\160\350\065
\360\005\321\252\274\343\333\310\002\352\174\375\202\332\302\133
\122\065\256\230\072\255\272\065\223\043\247\037\110\335\065\106
\230\262\020\150\034\245\061\130\021\130\056\031\201\020\313\1120
\165\374\352\132\026\316\021\132\375\357\120\210\055\141\377\077
\102\163\005\224\103\325\216\074\116\001\072\303\124\353\037\106\116
\167\320\135\345\201\042\041\207\376\224\175\204\330\223\255\326
\150\103\110\262\333\353\163\044\347\221\177\124\244\266\300\076
\235\243\074\114\162\302\127\304\249\324\314\070\047\316\325\006
\236\242\110\313\351\237\316\202\160\066\223\323\073\337\226\041
\134\131\126\70\143\332\221\067\360\375\131\132\263\231\130\151\154
\103\046\000\105\143\140\125\211\030\302\165\330\272\112\333\114
\377\353\336\200\035\532\070\325\136\055\013\230\175\076\154
\133\374\046\210\307
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105
\025\157\351\031 END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\246\260\315\205\200\332\134\120\064\243\071\220\057\125\147\163
END

CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\132\105\116\120\010
\040\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\0260\267\132\026\110\137\277\341\313\365\213\327\031
\346\175

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Chambers of Commerce Root - 2008"
#
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Trust for Certificate "Chambers of Commerce Root - 2008"
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7c:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\070\0147\004\061\035\0271\0361\2022\006\336\271\125\363\073\061\221
\123\334\265\010\025\255\166\045\012\015\173\056\207\342\014\246
\006\274\046\020\155\067\235\354\335\170\214\174\200\305\360\331
\167\110\320
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\152\164\254\166\253\024\177\234\152\060\120\272\236\250\176
\376\232\316\074
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\011\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\167\056\143\141
\155\145\162\162\151\162\151\141\056\143\157\155\057\144\144\144
\162\145\163\163\051\061\022\060\020\006\033\125\004\005\023\011
\101\70\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\161\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\243\332\102\176\244\261\256\332
END


# Certificate "Global Chambersign Root - 2008"

# Issuer: CN=Global Chambersign Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid (see current address at www.camerfirma.com/address)
# Serial Number: 00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid (see current address at www.camerfirma.com/address)
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After: Sat Jul 31 12:31:40 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Global Chambersign Root - 2008"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

```
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\010\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\167\167\167
\155\145\162\146\151\162\155\141\105\163\143\157\155\157\157
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\020\101\013\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\010\056\061\047\060\045\060\003\125\004\003\023
\036\071\075\145\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
END
```

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

```
\060\201\254\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\010\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\167\167\167
\155\145\162\146\151\162\155\141\105\163\143\157\155\157\157
\162\145\163\163\051\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\020\101\013\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\010\056\061\047\060\045\060\003\125\004\003\023
\036\071\075\145\157\142\141\154\040\103\150\141\155\142\145\162\163
\151\147\156\040\122\157\157\164\040\055\040\062\060\060\070
```

Open Source Used In Data Center Network Manager 11.5(1) 32943
# Trust for Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "Go Daddy Root Certificate Authority - G2"

# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
06020102234006010130060101000601031250040060230021051125
0611030601010006003112500400602300211511441144162151
144104005016131415405040143165116211621451561164040141
144144141621451631040141164040167167167167056143141
1551145162146151111511511151151115115111511151115111511151
16211451631631051061022106002006600031250040060230011
101107060206706406306207006706106103306003100600031125
00401202302210110303040103114115511451621461511162155
1410401230561010560610470600450060003125004003023
03610711541571421141154040103115011411551142145162163
1151147156040122115711571640401550401062060060070

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020110003113151233351325175043316

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2, O="GoDaddy.com, Inc.", L=Scottsdale, ST=Arizona, C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2, O="GoDaddy.com, Inc.", L=Scottsdale, ST=Arizona, C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\002\001\015\013\016\006\003\125\000\004\000\006\023\002\125\123
\061\020\060\001\16\006\003\125\000\004\010\023\007\101\162\151\172\157
\156\141\016\023\060\021\006\003\125\000\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\145\060\043\006\003\125\000\041\12
\023\034\123\164\141\162\161\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\011\011\156\143\056\061\062
\060\060\006\006\003\125\000\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\010\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\002\001\015\013\016\006\003\125\000\004\004\006\023\002\125\123
\061\020\060\001\16\006\003\125\000\004\010\023\007\101\162\151\172\157
\156\141\016\023\060\021\006\003\125\000\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\145\060\043\006\003\125\000\041\12
\023\034\123\164\141\162\161\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\011\011\156\143\056\061\062
\060\060\006\006\003\125\000\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\010\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\002\003\335\060\002\305\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\120\121\076\01\013\060\011\006\003\125\000\004\006\023\002\125\123
\020\060\016\060\003\125\000\004\010\023\007\101\162\151\172\157
\141\016\011\023\060\021\006\003\125\000\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\000\041\12
\023\034\123\164\141\162\161\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\011\011\156\143\056\061\062
\060\060\006\006\003\125\000\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\010\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
# Trust for Certificate "Starfield Root Certificate Authority - G2"
# Issuer: CN=Starfield Root Certificate Authority - G2, O="Starfield Technologies, Inc.", L=Scottsdale, ST=Arizona, C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2, O="Starfield Technologies, Inc.", L=Scottsdale, ST=Arizona, C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After: Thu Dec 31 23:59:59 2037

CKA_CLASS CK OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK BBOOL CK_TRUE
CKA_PRIVATE CK BBOOL CK_FALSE
CKA_MODIFIABLE CK BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\174\356\053\014\075\370\125\253\055\222\364\376\071
\324\347\017\016

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\1374\374\132\146\355\005\362\226
END

CKA_ISSUER MULTILINE_OCTAL
\060\020\121\170\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\11\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\16\144\141\15\15\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\006\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK BBOOL CK_FALSE

# Certificate "Starfield Services Root Certificate Authority - G2"
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc." , L=Scottsdale, ST=Arizona, C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\106\123\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\013\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\017\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\106\123\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\013\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\017\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\002\001\000
END
# Trust for Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Ari\nza,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.".,L=Scottsdale,ST=Ari\nza,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\222\132\217\215\054\155\004\340\146\137\131\152\377\042\330\143\350\045\157\077
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\027\065\164\257\173\141\034\353\364\371\074\342\356\100\371\124
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\123\060\011\106\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\001\011\162\156\157\172\157
\156\141\061\023\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\060\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145
# Certificate "AffirmTrust Commercial"

# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number: 77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After: Tue Dec 31 14:06:06 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"

CKA_SUBJECT MULTILINE_OCTAL
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Trust for Certificate "AffirmTrust Commercial"
# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After : Tue Dec 31 14:06:06 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\375\265\266\062\105\137\234\276\354\127\137\200\334\351\156\054
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\222\272\133\357\315\121\157\246\075\125\371\204\366\326\267
END

CKA_ISSUER MULTILINE_OCTAL
\060\061\013\060\006\003\125\004\006\023\002\125\123\061
\024\066\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\103\076\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\103\157\155\155
\145\162\143\151\141\154
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\125\126\174
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AffirmTrust Networking"
#
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Networking"
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After: Tue Dec 31 14:08:24 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220
\237\105\000\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\001\232\232\114\251\214\101\111\135\300\325\177
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AffirmTrust Premium"
#
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Trust for Certificate "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\246\063\054\340\003\157\261\205\366\143\117\175\152\006\145\046\062\050\047
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
END
CKA_ISSUER MULTILINE_OCTAL
\060\010\061\013\060\001\100\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061\034\060\032\060\003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\246\012\356
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AffirmTrust Premium ECC"
#
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number: 74:97:25:8ac7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC, O=AffirmTrust, C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After: Mon Dec 31 14:20:24 2040

CKA_CLASS C K_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN C K_BBOOL CK_TRUE
CKA_PRIVATE C K_BBOOL CK_FALSE
CKA_MODIFIABLE C K_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\140\13\101\146\151\162\155
\124\162\165\163\164\061\104\060\036\006\003\125\004\003\140\27
\101\146\161\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\140\13\101\146\151\162\155
\124\162\165\163\164\061\104\060\036\006\003\125\004\003\140\27
\101\146\161\151\162\155\124\162\165\163\164\040\120\162\145\155
\151\165\155\040\105\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\164\227\045\212\307\077\172\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\000\137\060\020\001\120\240\003\002\001\002\002\101\164
\227\045\212\307\077\172\124\060\012\006\010\052\206\110\316\075
\004\003\003\060\105\061\101\130\011\006\003\125\004\006\023\002
\125\123\061\204\060\022\006\003\125\004\012\140\13\101\146\146
\151\162\155\124\162\165\163\164\061\040\060\036\006\003\125\004
\003\014\027\101\146\161\151\162\155\124\162\165\163\164\040\120
\162\145\155\151\165\155\040\105\103\103\060\036\027\015\061\060
\060\060\106\207\106\164\064\062\060\060\064\132\027\15\064\060\061
\026\063\060\106\164\062\060\060\064\132\026\010\050\110\130\011
\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125
\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061
\040\060\060\060\003\125\004\003\140\27\101\146\146\151\162\155
\124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\103
\103\160\166\060\020\006\007\052\206\110\316\075\002\001\006\005
\053\201\004\000\042\033\142\000\004\015\060\136\033\025\235\003
\320\241\171\065\267\072\074\222\172\312\025\034\151\142\363\234
\046\134\007\075\345\124\372\243\326\134\022\352\364\024\137\350

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END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Premium ECC"
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number:74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After : Mon Dec 31 14:20:24 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\043\153\000\057\035\026\123\020\123\001\125\154\021\124\067\312\353\377\303\273
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\142\260\011\125\317\261\135\231\134\276\023\253\246\135\352\115
END

CKA_ISSUER MULTILINE_OCTAL
\060\015\060\013\060\011\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061\104\060\036\006\003\125\004\003\014\027\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155\040\105\103\103
END
# Certificate "Certum Trusted Network CA"
#
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid After : Mon Dec 31 12:07:37 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\13\125\004\006\023\12\114\146
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\155\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\031\125\004\013\023\036\031\145
\162\164\165\155\040\031\145\162\164\151\146\151\143\141\164\151
\157\156\040\010\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\161\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\176\176\101\13\060\011\100\06\003\125\004\006\023\002\12\114\146
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\031\125\004\013\023\036\031\145
\162\164\165\155\040\010\145\162\164\151\146\151\143\141\164\151
\157\156\040\010\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\161\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\260\170\104\343\334\034\257\071\133\021\275\052\304\271
\125\004\265\020\243\215\047\336\013\202\143\320\356\336\014\067
\171\101\133\042\262\260\023\210\113\424\266\160\340\324\320\167\313
\043\323\000\340\154\126\057\341\151\015\151\331\252\277\041\201
\120\331\006\245\250\377\225\067\320\252\237\364\226\365\231\055
\105\204\212\345\021\102\011\327\164\002\057\367\212\133\023\351\274
\047\324\107\215\272\015\106\034\167\317\024\244\034\271\244\061
\304\234\050\164\003\064\377\063\031\046\245\351\105\164\267\076
\227\306\166\350\047\226\243\146\335\341\125\362\010\133\312\230
\126\203\163\160\344\206\032\322\061\101\272\057\276\050\023\132
\166\157\116\350\116\210\101\167\77\133\003\042\240\022\276\146\130
\021\112\313\003\042\264\052\050\205\055\226\027\340\071\124\274\110
\323\166\047\235\323\055\006\246\311\354\071\322\253\333\237\232
\013\047\002\065\051\261\100\225\347\371\350\234\125\210\031\106
\326\267\064\365\176\310\071\232\331\070\361\121\367\117\054
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
# Not Valid After : Mon Dec 31 12:07:37 2029

END

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\007\340\062\340\040\267\054\077\031\057\006\050\242\131\072\031
\247\017\006\236
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\325\351\201\100\305\030\151\137\41\165\142\017\252\170
END
CKA_ISSUER MULTILINE_OCTAL
\060\176\061\103\060\011\100\060\003\125\004\006\023\002\120\114\061
\042\060\040\000\003\125\004\012\230\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\151\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\230\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151

Open Source Used In Data Center Network Manager 11.5(1) 32970
# Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
# Certificate_Type CK_Certificate_Type CKC_X_509
# Subject_MULTILINE_OCTAL
# Issuer_MULTILINE_OCTAL
# Serial_NUMBER_MULTILINE_OCTAL
# ID_UTF8 "0"
# ISSUER MULTILINE_OCTAL
## Certificate "Explicitly Distrust DigiNotar Root CA"

Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL

Serial Number: 0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff

Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL


Not Valid After: Mon Mar 31 18:19:22 2025


### Certificate Details

#### CKA_TRUST_SERVER_AUTH

- **CKT_NSS_TRUSTED_DELEGATOR**

#### CKA_TRUST_EMAIL_PROTECTION

- **CKT_NSS_TRUSTED_DELEGATOR**

#### CKA_TRUST_CODE_SIGNING

- **CKT_NSS_MUST_VERIFY_TRUST**

#### CKA_TRUST_STEP_UP_APPROVED

- **CK_BBOOL CK_FALSE**

#### CKA_CLASS

- **CK_OBJECT_CLASS CKO_CERTIFICATE**

#### CKA_TOKEN

- **CK_BBOOL CK_TRUE**

#### CKA_PRIVATE

- **CK_BBOOL CK_FALSE**

#### CKA_MODIFIABLE

- **CK_BBOOL CK_FALSE**

#### CKA_LABEL

- UTF8 "Explicitly Distrust DigiNotar Root CA"

#### CKA_ID

- UTF8 "0"

#### CKA_ISSUER

- Multiline Octal

#### CKA_SERIAL_NUMBER

- Multiline Octal

#### CKA_VALUE

- Multiline Octal

---

Open Source Used In Data Center Network Manager 11.5(1) 32974
# Trust for Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After : Mon Mar 31 18:19:22 2025

END
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\301\167\313\113\340\264\046\216\365\307\317\105\231\042\271\260
\316\272\041\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\012\244\325\314\272\264\373\243\131\343\346\001\335\123\331\116
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\023\011\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\003\125\004\003\023\021\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\013\101\061
\040\060\036\006\011\052\206\110\206\367\150\001\011\100\102\060\201
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\377\377\377\377\377\377\377\377\377\377
\377\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
#
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
END

# Trust for Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END
# Certificate "Security Communication RootCA2"

# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.".,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.".,C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\064\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END

CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117

Open Source Used In Data Center Network Manager 11.5(1) 32981
# Trust for Certificate "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\154\101\261\307\223\176\310\013\102\102\337\144\352\034\356\131
\154\010\272\211\137\152\312\112\225\236\172\171\007\305\332\105
\162\202\161\106\072\322\314\157\247\264\241\043\273\366\044\237
\131\027\376\214\246\316\302\322\333\314\215\374\161\137\400\035\015
\301\154\135\063\137\144\266\145\073\211\157\030\166\170\365\334
\242\110\037\011\216\223\353\361\372\027\356\315\116\343\004
\022\125\326\345\344\335\373\076\005\174\342\035\136\306\247\274
\227\17\150\072\365\351\056\101\103\266\257\127\134\142\150\174
\266\375\243\12\204\350\142\276\053\011\120\064\360\152\001
\273\323\051\120\074\376\000\067\317\043\154\361\116\252\266\164
\106\022\154\221\356\064\032\354\364\037\353\174\331\226\125\251\177\354
\212\371\23\107\377\065\132\002\252\004\313\121\133\207\161\051
\221\275\244\264\172\015\275\23\236\51\270\043\000\007\041\027\077
\112\071\321\005\111\013\247\266\067\210\124\135\214\252\063\136
\201\050\174\247\175\047\353\000\256\215\067
END

CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "EC-ACC"
#
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\363\061\013\006\000\125\004\006\023\002\105\123
\061\073\060\071\006\003\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\140\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\110
\040\121\055\060\070\060\061\061\067\066\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\164\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\112\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\010\141\164\141
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006
\105\103\055\101\103\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
END

CKA_NSS_MOZZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "EC-ACC"
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272\246\112\362\350
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\353\365\235\051\015\141\371\102\037\174\302\272\155\343\025\011
END

CKA_ISSUER MULTILINE_OCTAL
\060\021\136\063\061\013\060\001\11\006\003\125\004\006\023\002\105\123
\061\173\060\071\10\006\003\125\004\012\023\062\10\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\140\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\066\055\11\051\061\050\060\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151


```
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\161\160\072\057\057
\167\165\167\167\050\143\141\144\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\051\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\141\156\141\163\061\017\060\015\006\003\125\004\003\023\006
\105\103\055\101\103\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335
\304\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Hellenic Academic and Research Institutions RootCA 2011"
#
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\225\061\013\006\003\125\004\006\023\002\107\122
\061\104\060\102\006\003\125\004\010\102\020\073\110\145\154\154\145
\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\145\156\151\143\040\011\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\061
```

Open Source Used In Data Center Network Manager 11.5(1) 32988
# Trust for Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research
Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 1 issued by Trustwave"

# Explicitly Distrust "MITM subCA 1 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.".L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000005 (0x6b49d205)
# Not Before: Apr 7 15:37:15 2011 GMT
# Not After : Apr 4 15:37:15 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 1 issued by Trustwave"
Open Source Used In Data Center Network Manager 11.5(1) 32992

CKA_ISSUER MULTILINE_OCTAL
\060\021\063\013\060\011\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\002\010\011\014\015\015\015
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\010\015
\151\143\147\014\157\061\044\060\037\006\003\125\004\012\023\030
\124\162\165\163\167\141\166\145\040\010\157\154\144\151\015
\147\163\054\040\011\015\013\056\061\063\060\061\006\003\125\004
\003\023\052\124\162\165\163\164\167\141\166\145\040\017\162\147
\141\156\151\172\141\164\151\157\150\040\111\163\163\165\151\015
\147\040\013\010\054\040\011\014\156\151\145\154\040\062\061\037\060
\035\006\011\152\026\011\026\020\143\141
\100\164\162\165\163\164\167\141\166\145\056\143\157\155
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\111\322\005
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "MITM subCA 2 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000006 (0x6b49d206)
# Not Before: Apr 18 21:09:30 2011 GMT
# Not After : Apr 15 21:09:30 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 2 issued by Trustwave"

CKA_ISSUER MULTILINE_OCTAL
\060\021\025\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\002\010\011\014\015\015\015
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\010\015
\151\143\147\014\157\061\044\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\010\157\154\144\151\015
\147\040\013\010\054\040\011\014\156\151\145\154\040\062\061\037\060
\035\006\011\152\026\011\026\020\143\141
\100\164\162\165\163\164\167\141\166\145\056\143\157\155
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\111\322\005
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Actalis Authentication Root CA"
#
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "Actalis Authentication Root CA"
CKA_ISSUER_MULTILINE_OCTAL
\060\153\061\013\060\000\132\250\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\115\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\056\101\056\057\116\060\063\063\065\070\065\062
\060\071\066\067\061\147\116\141\164\141\154\151\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\060\153\061\013\060\000\132\250\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\115\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\056\101\056\057\116\060\063\063\065\070\065\062
\060\071\066\067\061\147\116\141\164\141\154\151\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101
END
Open Source Used In Data Center Network Manager 11.5(1) 32994
END

# Trust for "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number:57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"

END

CKA_class CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

# Certificate "Trustis FPS Root CA"
# Issuer: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB
# Subject: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB
# Not Valid Before: Tue Dec 23 12:14:06 2003
# Not Valid After : Sun Jan 21 11:36:54 2024

END
Open Source Used In Data Center Network Manager 11.5(1)  32997

CKA_LABEL UTF8 "Trustis FPS Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\011\100\060\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\124\162\165\163\164\151
\163\040\114\151\155\151\164\145\144\061\034\060\032\006\003\125
\004\013\023\023\124\162\165\163\164\151\163\040\106\120\123\040
\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\100\060\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\124\162\165\163\164\151
\163\040\114\151\155\151\164\145\144\061\034\060\032\006\003\125
\004\013\023\023\124\162\165\163\164\151\163\040\106\120\123\040
\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\033\037\255\266\040\371\044\323\066\153\367\307\361\214
\240\131
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\147\060\202\002\117\240\003\002\001\002\002\020\033
\037\255\266\040\371\044\323\066\153\367\307\361\214\240\131\060
\015\006\011\052\206\010\020\063\015\001\001\005\005\000\060\105
\061\013\060\011\100\060\003\125\004\006\023\002\107\102\061\103\060\106
\026\006\003\125\004\012\023\017\124\162\165\163\164\151\163\040
\114\151\155\151\164\145\144\061\034\060\032\006\003\125\004\013
\023\023\124\162\165\163\164\151\163\040\106\120\123\040\122\157
\157\164\040\103\101\106\003\060\207\105\060\063\061\062\062\063\061
\062\061\064\060\066\132\027\105\062\064\060\061\062\061\061\060
\063\066\065\064\132\060\105\061\103\060\011\100\060\003\125\004\006
\023\023\021\071\020\061\103\060\026\026\006\003\125\004\012\023\017\124
\162\165\163\164\151\163\040\114\151\155\151\164\145\144\060\103
\060\032\006\003\125\004\013\023\023\124\162\165\163\164\151\163
\040\106\120\123\040\122\157\157\164\040\103\101\060\202\001\004\2
\001\060\005\006\111\052\206\110\206\036\015\001\001\000\050\000
\120\200\010\17\100\060\202\001\012\002\202\001\000\035\120\173
\123\60\036\055\320\037\304\214\013\152\161\233\353\243\300\066\231\164
\123\052\232\247\076\200\203\017\242\247\131\132\207\311\112\200\105\103\176
\100\035\252\026\171\105\022\003\275\075\056\123\121\146\267\345\212\126
\120\232\234\150\113\15\000\042\124\232\223\002\076\060\032\206\070\2
\042\141\111\034\020\151\167\212\325\257\173\065\366\176\050\107
\211\106\133\40\161\17\144\037\231\322\133\272\237\177\110\277\025
\353\347\070\070\051\152\057\035\022\101\031\257\357\040\303\325
\055\311\336\111\146\161\121\171\014\327\000\432\007\346\036\030\034
\275\051\100\250\037\203\344\133\327\210\230\251\101\110\274\032\161
\123\047\142\345\055\262\353\337\174\317\333\253\132\120\061\136

Open Source Used In Data Center Network Manager 11.5(1)  32997
Certificate "Buypass Class 2 Root CA"

Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
Serial Number: 2 (0x2)
Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
Not Valid Before: Tue Oct 26 08:38:03 2010
Not Valid After : Fri Oct 26 08:38:03 2040

Certificate

Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
Serial Number: 2 (0x2)
Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
Not Valid Before: Tue Oct 26 08:38:03 2010
Not Valid After : Fri Oct 26 08:38:03 2040
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306 \013\022\100\231
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\376\105\373\144\132\250\131\220\233\170\104\233\051
END
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061 \035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163 \163\040\101\123\055\071\070\063\061\066\063\062\067\061\040 \060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After: Fri Oct 26 08:28:58 2040
# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After: Fri Oct 26 08:28:58 2040

CA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CA_TOKEN CK_BBOOL CK_TRUE
CA_PRIVATE CK_BBOOL CK_FALSE
CA_MODIFIABLE CK_BBOOL CK_FALSE
CA_LABEL UTF8 "Buypass Class 3 Root CA"

CAK_CERT_SHA1_HASH MULTILINE_OCTAL
\332\372\367\372\146\204\354\006\217\067\302\201\245
\274\251\144\127
END

CAK_CERT_MD5_HASH MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354
END

CAK_ISSUER MULTILINE_OCTAL
\060\011\066\013\036\001\011\006\003\315\004\006\230\023\023\116\170\061
\035\060\033\006\003\125\004\012\014\021\021\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\021\021\165\171\160\141\163\163
\040\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101
END
# Certificate "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3, OU=T-Systems Trust Center, O=T-Systems Enterprise Services
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3, OU=T-Systems Trust Center, O=T-Systems Enterprise Services
# Not Valid After: Sat Oct 01 23:59:59 2033

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3, OU=T-Systems Trust Center, O=T-Systems Enterprise Services
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3, OU=T-Systems Trust Center, O=T-Systems Enterprise Services
# Not Valid After: Sat Oct 01 23:59:59 2033

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL
\060\021\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\021\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# 

Open Source Used In Data Center Network Manager 11.5(1) 33008
# Certificate "EE Certification Centre Root CA"

# Issuer: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Subject: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Not Valid Before: Sat Oct 30 10:10:30 2010
# Not Valid After: Tue Dec 17 23:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "EE Certification Centre Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "EE Certification Centre Root CA"
# Issuer: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Subject: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Not Valid Before: Sat Oct 30 10:10:30 2010
# Not Valid After : Tue Dec 17 23:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"

# Trust for "EE Certification Centre Root CA"
# Issuer: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Subject: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Not Valid Before: Sat Oct 30 10:10:30 2010
# Not Valid After : Tue Dec 17 23:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\136\210\324\175\032\112\176\375\204\056\122\353\001\324\157
END

CKA_ISSUER MULTILINE_OCTAL
\060\165\060\130\060\110\006\003\125\004\006\023\105\155\061 \
\042\060\040\006\033\125\004\012\140\013\110\123\040\123\145\162 \
\164\151\146\161\164\163\145\145\162\151\155\151\163\153\145\163 \
\153\165\163\061\050\060\046\006\003\125\004\003\014\037\105\105 \
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\103 \
\145\156\164\162\145\040\122\157\157\164\040\103\101\061\030\060 \
\026\006\011\052\026\110\206\367\015\001\026\011\160\153 \
\151\100\163\153\056\145\145
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\202\020\124\200\371\240\163\077\000\114\312\211\133\034\161 \
\346\112
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
# Sunucu Sertifikas.., Hizmetleri
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021
# Fingerprint (MD5): F8:F5:25:FF:0C:00:C:85:E1:0C:86:17:C1:CE:1F:8E

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 1"

CJA_ISSUER MULTILINE_OCTAL
\060\202\124\113\121\113\073\000\003\125\004\003\014\064\124\303 \
\234\122\113\121\122\125\121\124\040\105\154\145\153\164\162\157 \
\156\151\153\040\123\163\156\165\143\163\165\040\123\145\162\164\151 \
\146\151\153\141\163\304\261\040\110\151\172\155\145\164\154\145 \
\162\151\106\11\130\060\011\100\003\125\004\006\023\002\124\122\061 \
\136\060\134\000\003\125\004\012\104\125\124\303\234\122\113\124 \
\122\125\123\124\040\102\151\154\147\151\040\304\260\154\154\164 \
\151\130\237\151\155\040\166\145\040\102\151\154\151\305\237\151 \
\155\040\107\303\274\166\145\156\154\151\304\237\151\040\110\151 \
\172\155\145\164\154\145\162\151\040\101\056\305\236\056\040\050

Open Source Used In Data Center Network Manager 11.5(1) 33012
# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 2", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
# Sunucu Sertifikas.., Hizmetleri
# Serial Number: 2148 (0x864)
# Subject: E=ileti@kktcmerkezbankasi.org,CN=e-islem.kktcmerkezbankasi.org,O=KKTC Merkez
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Thu Aug 05 07:07:51 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 2"

# Certificate "D-TRUST Root Class 3 CA 2 2009"
# Trust for "D-TRUST Root Class 3 CA 2 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 2009, O=D-Trust GmbH, C=DE
# Serial Number: 623603 (0x983f3)
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After: Mon Nov 05 08:35:58 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\350\253\260\066\025\063\373\200\367\233\033\155\051\323\377
\215\137\000\360
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\340\045\151\215\107\254\234\211\065\220\036\75\121\075\057
END
CKA_ISSUER MULTILINE_OCTAL
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165\163
\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003\014
\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
#

# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\012\006\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\000\003\125\004\012\014\014\055\124\162\165\163
\164\040\017\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\012\006\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\000\003\125\004\012\014\014\055\124\162\165\163
\164\040\017\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364

END

CKA_VALUE MULTILINE_OCTAL
\060\202\004\103\060\020\020\03\053\240\003\002\001\002\002\003\011
\203\364\060\015\006\011\052\206\110\206\367\015\001\001\013\005
\000\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\000\003\125\004\012\014\014\055\124\162\165\163
\163\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003
\014\104\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\154\141\163\163\040\063\040\103\101\040\062\040\105\126\040\060\062
\060\060\071\060\036\027\015\060\071\061\061\060\065\060\070\065
\006\004\064\061\132\027\015\062\071\061\061\060\065\060\070\065
\006\004\066\132\026\012\006\011\060\011\060\03\125\004\006\023\002
\104\105\060\125\060\023\000\003\125\004\012\014\014\055\124
\162\165\163\164\040\107\155\142\110\061\052\060\050\006\003\125
\004\003\014\041\110\045\124\122\125\123\124\040\122\157\157\164
\040\103\154\141\163\163\040\063\040\103\101\040\062\040\105\126

\173\360\171\121\327\103\075\247\323\201\323\360\011\117\271\332
\306\227\206\320\020\033\044\102\155\376\260\342\144\116\016\046
\347\100\064\046\265\010\211\327\010\143\013\070\047\165\036\063
\352\156\250\335\237\231\117\164\115\201\121\120\011\13\335\232\227
\051\134\057\276\201\101\271\214\377\352\175\140\006\236\315\327
\075\323\056\243\025\274\250\346\046\345\157\303\334\270\003\041
\352\237\026\361\054\124\265
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x98f34f)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140
\372\271\026\203
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\306\033\013\225\264\020\230\102\372\320\330\042\171\376\140
\372\271\026\203
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165\163
\164\040\107\155\142\110\051\052\060\050\006\003\125\004\003\014
\041\040\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\105\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Open Source Used In Data Center Network Manager 11.5(1) 33019
# Certificate "CA Disig Root R2"

# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\02\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\105\61\163\056\061\03\060\027\006\003\125
\004\003\023\020\103\01\040\04\151\163\151\147\040\122\157\157
\164\040\122\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\02\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\105\61\163\056\061\03\060\027\006\003\125
\004\003\023\020\103\01\040\04\151\163\151\147\040\122\157\157
\164\040\122\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\151\106\020\203\121\240\003\002\001\002\002\011\000
\222\270\210\333\260\212\301\143\060\015\006\011\052\206\110\206
\367\15\000\101\103\005\000\060\122\061\101\060\011\006\003\125
\004\006\023\002\123\113\061\023\060\210\006\003\125\004\007\023
\012\102\162\141\164\151\163\154\141\166\141\061\143\060\012\023\060\021\006
\303\125\004\012\203\012\104\151\163\151\147\040\141\105\61\163\056
\061\031\060\027\006\003\125\004\003\023\020\103\01\040\104\151
\163\151\147\040\122\157\157\164\040\122\062
\062\060\067\061\071\060\071\061\065\063\060\13\2\027\015\064\062
\060\067\061\071\060\071\061\065\063\060\13\2\060\122\061\101\03\060
\01\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003
Open Source Used In Data Center Network Manager 11.5(1)  33022

# Trust for "CA Disig Root R2"
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042

# Trust for "CA Disig Root R2"
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
Certificate "ACCVRAIZ1"

# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030

[other content...]

# Certificate "ACCVRAIZ1"

# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030

[other content...]
Open Source Used In Data Center Network Manager 11.5(1) 33026

END

# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After: Tue Dec 31 09:37:37 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170
\274\123\144\027
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\320\240\132\356\005\266\011\224\041\241\175\361\262\051\202\002
END
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\014\011\101\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\013\014
\007\120\113\111\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\010\015\012
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\136\303\267\246\103\177\244\340
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TWCA Global Root CA"
# Issue: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After: Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
# Trust for "TWCA Global Root CA"
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\234\273\110\123\366\244\366\323\122\244\350\062\122\151\170\027\055\121\157\157\040\103\101\020\006\011\125\004\006\023\002\124\127\061
\022\060\002\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\010\040\017\154\157\142\141\154\040\122\157\157\164
\040\103\101
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\371\003\176\317\346\236\074\163\172\052\220\007\151\177\053\226
END

CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\002\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\103\101\061\020\060\016\006\003\125\004\013\023\007\122\157
\157\164\040\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\010\040\017\154\157\142\141\154\040\122\157\157\164
\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "TeliaSonera Root CA v1"

# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After: Mon Oct 18 12:00:50 2032

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\0225\276\026\240\367\056\106\361\173\071\202\162\372
\213\315\226
END
CKA_VALUE MULTILINE_OCTAL
\060\020\005\070\060\022\040\033\040\034\020\030\003\002\030\002\021\000
\225\276\026\240\367\056\106\361\173\071\202\162\372\213\315\226
\060\015\000\006\011\052\061\102\063\067\015\001\001\005\000\000\060
\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151
\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004\003
\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157
\157\164\040\103\101\040\166\061\102\060\036\027\015\060\067\061\060
\061\070\060\026\062\060\060\065\060\132\027\015\063\062\061\060\061
\070\061\062\060\060\065\060\132\060\067\061\024\060\022\006\003
\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141
\061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141
\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166
\061\060\022\002\042\060\015\006\011\052\061\102\162\372\173\071
```
END

# Trust for "TeliaSonera Root CA v1"

# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\031\346\253\114\021\070\305\157\061\134\215\166\200\046\003\046\051\340\066\366\366\040\123\343\027\160\064\027\235
\143\150\036\153\354\303\115\206\270\023\060\057\135\106\015\107
\103\252\033\252\131\016\271\134\215\066\110\255\164\207\137\307
\374\060\112\41\023\342\037\041\106\236\340\036\015\341\300\173
\103\205\220\035\212\131\036\061\145\012\271\127\362\060\043\017\001
\331\040\113\360\114\021\070\305\157\061\134\215\166\200

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

END
# Certificate "E-Tugra Certification Authority"

# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A.....,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A.....,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\066\067\061\024\060\022\020\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\159\164\040\103\101\040\166\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\225\276\026\024\037\056\106\361\173\071\202\126\372

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

END
\357\263\102\101\07\32\07\08\32\07\30\00\35\37\36\07\31\14\33\30\07\32\07\32\23\06\00\00\30\00\11\33\37\35\14\33\36\07\22\10\01\22\33\11\15\76\34\31\16\03\33\12\33\05\04\14\36\04\13\12\10\01\17\11\12\26\07\20\22\06\67\70\30\10\01\14\11\21\17\11\12\26\27\07\22\06\67
\37\01\46\30\07\17\02\20\00\00\00\25\05\06\21\33\25\51\12\06\51\23\00\07\25\01\15\35\26\37\11\16\07\40\07\04\46\31\50\10\00\51\60\31\14\07\17\11\66\27\5
\24\53\23\14\70\06\00\01\20\06\24\12\33\22\14\00\07\31\74\10\13\17\17\01\25\21\22\74\42\25\30\32\01\05\07\11\14\03\10\11\32\22\21\36\41\62\13\12\27\12\63\74\07\26\24\23\35\33\21\60\23\41\66\13\32\21\14\10\12\03\56\21\61\06
\16\12\15\33\37\37\11\11\36\73\30\06\25\11\14\73\31\15\55\24\00\02\02\13\42\07\30\26\04\27\13\13\01\00\10\31\13\15\71\12\13\10\23\41\11\00\07\10\71\5\00\63\33\32\32\73\07\21\17\32\41\64\04\11\32\43\03\00\22\02\17\22\37\73\16\22\26\21\02\26\12\05\11\13\50\03\25\30\01\04\21\01\22\11\17\33\36\34\02\27\31\15\06\23\34\35\31\11\27\31\10\13\23\55\37\05\06\21\36\12\57\34\26\42\30\32\02\22\03\30\03\30\02\24\07\15\20\03\50\02\22\03\64\07\30\55\22\06\40\26\10\05\27\6\14\25\33\53\26\13\22\12\31\11\33\31\17\00\23\01\03\60\01\11\23\55\15\55\17\00\00\23\02\33\23\01\37\20\03\17\21\21\01\13\04\12\34\62\10\05\22\27\23\72\11\12\37\06\67\13\17\37\07\23\16\07\01\13\20\06\13\25\57\16\10\13\26\43\30\36\26\11\00\17\23\70\02\23\34\36\26\02\24\12\73\34\35\33\32\33\21\03\31\12\04\06\36\20\50\03\04\35\21\15\36\40\05\21\37\35\30\11\15\31\66\33\32\37\17\62\73\20\50\07\34\32\11\32\02\11\15\26\16\13\34\10\05\32\11\37\75\04\31\14\10\25\12\31\16\37\33\31\17\14\51\14\07\23\12\35\56\26\01\11\32\01\11\37\70\35\30\06\27\37\60\04\32\27\06\32\22\02\07\13\27\02\05\15\00\60\13\24\34\33\30\37\12\43\25\13\15\03\35\26\00\17\63\35\02\23\02\20\06\64\35\55\00\13\40\44
END
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBGI..im
# Teknolojileri ve Hizmetleri A......,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBGI..im
# Teknolojileri ve Hizmetleri A......,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL\121\306\347\010\111\006\156\36\22\22\22\43\13\24\00\01\15\243\12\21\73\03\12\22\071
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111 END
CKA_ISSUER MULTILINE_OCTAL
\060\201\126\202\061\013\060\011\006\003\125\004\006\023\002\124\122 \061\017\060\015\060\003\125\004\007\014\006\101\156\153\141\162 \141\061\100\006\007\060\006\003\125\004\012\014\067\105\055\124\165 \130\023\162\141\040\105\102\107\040\102\151\154\151\130\237\151 \155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\140 \166\161\145\040\110\151\172\155\145\164\145\145\162\151\140 \165\032\366\060\046\006\006\003\125\004\013\014\035\105\105 \124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163 \171\157\156\040\115\145\162\153\145\172\151\106\105\060\046\006 \100\033\125\004\003\140\137\105\105\124\165\147\162\141\040\103\145 \162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150 \157\162\151\164\171 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\123 \123\171\157\156\040\115\145\162\153\145\172\151\106\105\060\046\006 \100\033\125\004\003\140\137\105\105\124\165\147\162\141\040\103\145 \162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150 \157\162\151\164\171 END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "T-TeleSec GlobalRoot Class 2"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\126\202\061\013\060\011\006\003\125\004\006\023\002\104\105 \061\053\060\051\060\003\125\004\012\014\042\124\055\123\171\113 \164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040 \123\145\162\160\151\143\145\163\040\107\155\142\110\061\103\106 \035\006\003\125\004\013\014\026\124\055\123\171\113\164\145\155
\026\204\372\146\260\010\306\124\043\201\344\315\271\111\077\366
\117\156\067\110\050\070\017\305\276\347\150\160\375\071\127\115
\322\307\230\221\120\252\304\104\263\304\175\071\110\351\122\142
\326\022\223\136\267\061\122\102\005\373\164\243\135\365\302
\374\351\172\035\154\251\161\117\352\313\170\274\140\257\307\336
\364\331\132\276\176\063\245\156\224\043\175\071\107\351\017\166
\216\162\240\077\244\136\306\060\133\357\206\115\152\225\133\103\104
\325\020\205\343\450\111\127\305\230\361\134\060\050\221\252\040
\305\267\123\046\110\103\262\013\213\225\130\341\300\017\166
\300\215\174\201\363\162\160\236\157\376\032\216\331\137\065\306
\262\157\064\174\276\110\117\342\132\071\327\330\235\170\236\237
\206\076\003\136\030\123\104\242\322\353\070\002\000\001\000\1243
\102\060\100\060\017\006\060\003\125\035\023\001\001\137\000\040\050\060
\003\001\000\013\377\006\016\060\003\012\253\050\170\001\001\377\004\004
\003\002\001\006\060\035\006\003\125\035\016\000\040\226\004\042\2277
\131\040\066\000\171\124\240\240\042\135\214\325\362\141\322\270\054
\313\022\112\090\015\000\011\052\206\110\206\367\015\001\001\013
\005\000\030\232\020\001\001\100\006\011\003\242\141\010\376\164\350\162
\066\036\155\371\115\236\372\042\250\341\120\112\613\173\152\73\237
\352\253\221\031\070\257\252\174\025\115\363\266\243\125\245\364
\216\366\104\251\247\350\041\122\255\357\060\001\242\206\210\360\002
\272\374\141\043\334\460\063\233\060\172\153\066\142\173\055\004\043
\204\130\145\342\333\053\212\347\045\123\067\142\123\137\274\332
\001\114\205\124\224\246\047\161\346\072\204\176\301\157\035\225\150
\040\112\070\064\337\352\377\025\200\345\272\327\172\330\133\165
\174\005\172\051\110\076\100\250\061\023\167\315\100\073\264\121
\107\172\056\021\343\110\072\213\366\235\146\320\213\325\124\146\372
\203\125\352\174\302\051\121\110\033\351\157\263\316\342\005\204\311
\057\076\170\205\142\156\311\137\301\170\143\164\130\300\110\030
\014\231\107\133\324\134\032\265\171\132\215\025\234\333\002\401\15
\366\172\007\127\074\202\035\005\555\074\233\045\046\075\303\026
\251\103\174\310\310\253\144\217\016\243\277\234\033\325\060\333
\332\320\031\056\252\074\361\137\063\200\166\044\031\255\031\117
\005\047\160\232\241\156\302
END

CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for “T-TeleSec GlobalRoot Class 2”
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# GmbH,C=DE

# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# GmbH,C=DE

# Not Valid After: Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\015\055\175\210\117\100\056\141\176\245\142\062\027\145\317
\027\330\224\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\053\233\236\344\173\154\037\000\162\032\314\301\167\171\337\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\010\015
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\010\145\156\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Atos TrustedRoot 2011"
#
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After: Tue Dec 31 23:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
\125\035\016\004\026\004\024\247\245\006\261\054\246\011\140\356
\321\227\351\160\256\274\073\031\154\333\041\060\017\006\000\3125
\035\023\001\001\377\004\005\060\003\001\001\377\060\037\060\003
\125\035\043\004\030\060\026\200\024\247\245\006\261\054\246\011
\140\356\321\227\351\160\256\274\073\031\154\333\041\060\000\3000
\003\125\035\040\004\026\106\017\060\015\006\010\013\053\006\001\0004
\001\126\055\003\004\001\001\060\016\060\000\03\125\035\17\001\0001
\377\004\004\003\002\001\001\206\006\000\150\052\206\110\060\367
\015\001\001\013\005\000\003\020\001\001\100\000\046\167\064\333\224
\110\060\052\101\123\050\047\060\026\140\304\214\254\013\124\270
\037\271\173\323\007\011\344\372\076\173\262\075\116\355\237\043
\275\227\363\153\134\357\356\375\100\246\337\241\223\241\012\0206
\254\357\040\320\171\001\275\170\367\031\330\044\061\064\000\001
\246\272\205\232\303\047\334\330\117\013\143\030\143\377\231\017
\016\221\153\165\026\341\041\374\330\046\307\017\267\246\317\130
\162\161\176\272\341\115\225\107\073\311\257\155\241\264\301\354
\211\366\264\017\070\265\342\144\334\045\174\246\333\355\232\134
\231\124\305\033\364\375\356\363\223\325\326\132\105\014\304\267\302
\265\024\357\264\021\377\016\025\265\365\355\333\030\275\353\132
\247\360\126\042\251\074\145\124\306\025\250\275\026\236\315\203
\226\150\172\161\201\211\341\013\341\352\021\033\150\010\314\151
\236\354\236\101\236\104\062\046\172\342\207\012\161\075\353\344
\132\244\322\333\305\315\306\363\140\177\271\363\117\104\222\357
\052\267\030\076\247\031\131\175\261\067\101\102\260\272\140
\035\362\376\011\021\260\360\207\173\247\235
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Atos TrustedRoot 2011"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After : Tue Dec 31 23:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\261\365\076\125\014\035\305\361\324\346\267\152\106\113\125
\006\002\254\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

Open Source Used In Data Center Network Manager 11.5(1) 33043
\256\271\304\062\113\254\177\135\146\314\167\224\273\052\167\126
END

CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\034\006\003\125\004\003\014\025\101\164\157
\163\040\124\162\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\061\015\060\013\006\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\134\063\313\142\054\137\263\062
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "QuoVadis Root CA 1 G3"
#
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\010\006\01\013\060\01\011\006\003\0125\004\001\023\020\0121\165\157\126\141\144
\151\163\040\141\151\151\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\013\010\040\061\040\107\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\010\006\01\013\060\01\011\006\003\0125\004\004\023\002\012\115\061
\031\060\027\006\003\125\004\012\023\020\012\116\157\126\141\144
\151\163\040\141\151\151\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\116\157\126\141\144\151\163\040\122\157
\157\164\040\013\010\040\061\040\107\063
END
Open Source Used In Data Center Network Manager 11.5(1) 33045
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"

END

# Certificate "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042

# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\012\111\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\012\111\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\062\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\202\111\123\065\136\216\270\053\073
\133\247\046\360\165\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\202\003\n1\024\000\003\002\001\002\002\024\010
\127\064\044\133\202\111\123\065\136\216\270\053\073\133\247\046
\360\165\050\060\015\050\011\105\206\110\206\367\15\001\001\013
\050\000\060\110\061\103\060\111\106\003\126\040\006\023\002\102
\115\061\031\060\027\006\003\126\040\123\023\020\012\111\165\157\126
\141\144\151\163\040\114\151\155\151\164\145\144\061\136\060\034
\106\003\025\120\004\003\023\025\121\165\157\126\141\144\151\163\040
\122\157\157\164\040\103\101\040\062\040\107\063\060\036\027\015
\061\062\060\061\061\106\206\010\106\055\071\063\062\132\027\105\064
\062\060\106\161\062\061\107\070\065\171\063\062\132\060\110\061\013
\060\011\106\003\126\020\006\023\002\102\115\061\031\106\027\006
\003\125\004\012\023\020\012\111\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\136\060\034\006\031\25\004\003\023
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\062\040\107\063\060\020\102\105\061\132\060\110\061\013
\002\120\006\003\126\020\006\023\002\102\115\061\031\106\027\006
\003\125\004\012\023\020\012\111\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\136\060\034\006\031\25\004\003\023
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\062\040\107\063\060\020\102\105\061\132\060\110\061\013
\002\120\006\003\126\020\006\023\002\102\115\061\031\106\027\006
\003\125\004\012\023\020\012\111\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\136\060\034\006\031\25\004\003\023
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\062\040\107\063\060\020\102\105\061\132\060\110\061\013
\002\120\006\003\126\020\006\023\002\102\115\061\031\106\027\006
\003\125\004\012\023\020\012\111\165\157\126\141\144\151\163\040\114
\151\155\151\164\145\144\061\136\060\034\006\031\25\004\003\023
\025\121\165\157\126\141\144\151\163\040\122\157\157\164\040\103
\101\040\062\040\107\063\060\020\102\105\061\132\060\110\061\013
\002\120\006\003\126\020\006\023\002\102\115\061\031\106\027\006
# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After: Sun Jan 12 18:59:32 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\363\213\213\334\175\151\045\365\120\027\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\156\277\100\055\177\013\076\022\120\272\022\075\006
END

CKA_ISSUER MULTILINE_OCTAL
\060\110\006\103\060\01\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
END
Certificate "QuoVadis Root CA 3 G3"

Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 20:26:32 2012
Not Valid After : Sun Jan 12 20:26:32 2042
Fingerprint (SHA-256):
CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
TOKEN CK_BBOOL CK_TRUE
PRIVATE CK_BBOOL CK_FALSE
MODIFIABLE CK_BBOOL CK_FALSE
LABEL UTF8 "QuoVadis Root CA 3 G3"
CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
SUBJECT MULTILINE_OCTAL
Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 20:26:32 2012
Not Valid After : Sun Jan 12 20:26:32 2042
Fingerprint (SHA-256):
CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
TOKEN CK_BBOOL CK_TRUE
PRIVATE CK_BBOOL CK_FALSE
MODIFIABLE CK_BBOOL CK_FALSE
LABEL UTF8 "QuoVadis Root CA 3 G3"
CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
SUBJECT MULTILINE_OCTAL
Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
Not Valid Before: Thu Jan 12 20:26:32 2012
Not Valid After : Sun Jan 12 20:26:32 2042
Fingerprint (SHA-256):
CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
TOKEN CK_BBOOL CK_TRUE
PRIVATE CK_BBOOL CK_FALSE
MODIFIABLE CK_BBOOL CK_FALSE
LABEL UTF8 "QuoVadis Root CA 3 G3"
```bash
\120\35\57\311\304\174\034\353\200\176\333\266\320\335\023\376
\311\323\234\327\262\227\251\002\000\000\000\012\243\102\060\100
\060\017\006\000\031\25\35\023\001\013\377\004\005\060\000\001\001
\377\060\016\006\000\031\25\35\017\001\001\377\004\004\003\002\001
\006\060\035\006\000\031\25\35\016\004\026\000\004\024\306\027\320\274
\250\352\002\013\262\033\006\231\135\053\220\040\271\327\234\334
\060\015\006\011\052\206\110\206\367\015\001\010\13\005\000\003
\202\002\001\000\064\141\331\126\265\002\22\207\125\115\335\234\065
\061\116\272\244\007\162\274\137\141\142\350\245\373\013\067\261
\074\266\263\372\051\235\177\002\365\244\311\250\232\267\172\161
\50\051\151\217\163\341\122\220\332\325\276\072\345\267\166\152\126
\200\041\133\171\353\463\107\236\345\076\366\242\151\307\052\012
\260\030\107\334\040\160\175\122\243\076\131\174\301\127\231\0130
\025\100\141\131\216\236\160\254\322\267\360\034\344\206\051\1360
\316\357\150\043\332\206\65\040\120\251\141\223\176\206\230\264\311
\302\166\373\314\242\160\026\314\243\141\306\164\023\345\153\357
\243\305\235\003\376\023\213\144\344\323\301\322\350\043\373\111
\321\200\115\171\114\63\253\257\364\215\061\036\160\024\255\334
\336\147\023\114\201\025\141\127\426\73\312\221\167\161\031\201\140
\273\360\130\245\265\234\013\367\217\042\125\047\300\113\000\1155
\073\231\015\342\035\233\143\147\057\320\356\015\13\146\274\224
\117\246\025\355\374\356\143\254\127\077\145\045\317\262\206\217
\320\010\377\270\166\024\156\336\345\047\354\253\170\265\123\271
\266\077\350\040\371\322\250\276\141\063\120\207\124\043\363\371
\332\140\150\233\042\036\021\046\233\020\004\221\116\130\006\037
\334\204\323\271\126\247\433\230\055\177\203\235\337\214\053\234
\062\216\062\224\360\001\017\040\024\505\223\173\103\205\306\303\230\071
\007\070\017\237\341\136\000\102\037\363\062\046\171\120\203\204\366\345
\360\031\121\022\300\013\036\000\043\014\124\245\114\057\111\130\116
\112\021\266\156\140\035\153\374\153\212\305\044\144\267\211\016
\253\045\107\033\047\317\176\111\127\250\035\101\230\332\367\176
\016\027\010\323\010\227\300\16\122\260\017\071\076\064\152\034
\175\353\362\042\256\273\151\364\063\264\246\119\0125\321\017\016
\046\353\354\266\013\055\247\205\065\315\357\13\130\237\321\131
\076\132\051\064\271\075\204\316\261\145\324\131\221\121\126\165
\041\130\167\236\371\172\341\140\235\323\255\004\303\364\174\353
\136\223\217\123\112\042\051\370\110\053\076\115\206\254\133\177
\313\046\232\131\140\330\130\145\225\215\104\321\367\177\176\047
\177\175\256\020\365\001\14\266\076\234\161\124\231\004\113\375
\130\371\230\364
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “QuoVadis Root CA 3 G3”
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
```
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After : Sun Jan 12 20:26:32 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\110\022\275\222\074\250\304\071\006\347\060\155\047\226\346\244
\317\042\056\175
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\001\100\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\1211\016\157\126\141\144
\151\163\040\114\151\155\151\164\146\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Assured ID Root G2"
#
# Issuer: CN=DigiCert Assured ID Root G2,O=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,O=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

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CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT
\060\145\061\013\060\001\011\006\003\125\004\000\023\002\125\123\061
\025\060\023\006\000\031\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\000\031\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\000\031\125\004\000\032\023\033\104\151\147\151
\103\145\162\164\040\101\116\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER
\060\145\061\013\060\001\011\006\003\125\004\000\023\002\125\123\061
\025\060\023\006\000\031\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\000\031\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\006\000\031\125\004\000\032\023\033\104\151\147\151
\103\145\162\164\040\101\116\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END
CKA_VALUE
\060\202\003\226\060\020\002\176\240\000\031\020\001\002\002\202\013
\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END
END

# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\241\113\110\331\103\356\012\016\100\220\117\074\340\244\300\221
\223\121\135\077

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\222\070\271\370\143\044\202\145\054\127\063\346\376\201\217\235

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\143\145\162\164\056\143\157
\155\061\044\060\042\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Assured ID Root G3"
#
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
"060145\06101306001100600301250040060230020125\123061
025060023006003012500400120230141041511471\15103145
162164040111115611430610310602706000301250040013023
020167167167056114411511471\15103145014004000302303310415103145
162164040101116311631165116214511440040111104040
122157\151\164040107063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
"060145\06101306001100600301250040060230020125\123061
025060023006003012500400120230141041511471\15103145
162164040111115611430610310602706000301250040013023
020167167167056114411511471\15103145014004000302303310415103145
162164040101116311631165116214511440040111104040
122157\151\164040107063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
"002020013\241132372035\337240\265111104257\315044240
154354
END
CKA_VALUE MULTILINE_OCTAL
"06020200021006002022001315240003020001020002020013
\241132372035337240\265111104257\315044240
012000601052206111031607500400030030060145061013060
011006003125004006023002125123061025060023006003
1250040120230141041511471\151031451621640401111156
143061031060270600030125004013023020167167167056
14415114715114314516216406143157\1515061044060042
00060023014000302303310415103145162164040
01011631163165162145144040111104040122157157164040
10706306003062701506106306007006061061062060060
0600600132027015063070060610610620606060
060132060145601013060011006003125004006023002125
1230610250600230060030125004012023014104151\147151
0131451621640401111156143061031060270600030125004
013023020167167167056144151147151143145162164056
143157155061044060042006003125004003023033104151
1471511031451621640401011163163165162145144040111
104040122157157164040107063060166060020006007052
020610316075002001006005053201004000004200031420000
004003134727425410414535515270771303372152611127
1251104055005025362357013377020164237265142122137
14611630373451334033105171013314306123012235215135
"\002\363\225\131\366\002\132\366\225\052\016\215\070\011\212\111\n\306\274\306\003\070\007\137\125\332\176\011\156\342\177\136\320\n\105\040\017\131\166\020\036\224\040\44\360\055\336\066\362\154\051\n\071\243\102\060\100\060\017\106\003\125\055\023\001\100\137\70\004\n\005\060\003\001\001\137\70\016\060\003\125\035\017\001\001\137\77\n\004\004\003\020\126\060\035\065\003\125\035\016\004\026\004\n\024\313\320\275\251\341\230\005\115\067\242\203\171\316\n\215\035\052\344\040\060\12\006\10\052\206\11\031\075\004\003\n\003\003\014\070\006\144\004\020\060\045\244\201\10\050\023\153\022\113\n\165\164\173\10\033\343\160\362\165\162\336\174\211\136\317\221\n\162\141\236\136\020\222\131\126\271\203\307\020\347\070\351\130\n\046\066\175\325\344\064\020\071\10\202\060\174\066\12\336\060\345\n\142\143\072\231\134\226\262\243\073\323\064\372\036\033\320\02\222\161\n\136\221\023\024\373\041\156\222\314\062\326\365\041\146\307\057\n\352\226\143\135\145\105\222\255\012\264\END

# Trust for "DigiCert Assured ID Root G3"
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\365\027\242\171\232\110\030\06\111\370\242\000\046\237\334\017\110\n\054\253\060\211
END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\174\177\145\061\014\201\337\215\272\076\231\134\2\134\255\156\373
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\177\145\061\014\201\137\215\272\076\231\134\125\156\373

END

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\144\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\147\151\143\157
\155\061\044\060\042\006\003\125\004\003\233\033\104\151\147\151
\103\145\162\164\040\101\116\163\165\162\145\144\040\111\104\040

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# Certificate "DigiCert Global Root G2"

# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END

END
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\125\126\274\362\136\244\065\065\303\244\017\325\253
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "DigiCert Global Root G3"
#
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3, OU=www.digicert.com, O=DigiCert Inc, C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\014\010\013\030\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\125\004\003\023\027\014\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\014\010\013\030\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\125\004\003\023\027\014\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\03\125\126\274\362\136\244\065\065\03\244\017\325\253

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\105\162
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\077\060\202\002\013\305\124\000\003\002\000\100\002\020\000\05
\125\126\274\362\136\244\065\065\303\244\017\325\253\105\162\060
\012\006\010\052\206\110\316\075\004\030\003\030\141\061\013\056
\011\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\012\203\014\041\151\147\151\103\145\162\164\040\111\1156
\143\061\031\060\027\006\003\125\004\013\023\020\167\167\167\056
\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036
\006\003\125\004\003\000\023\027\104\151\147\151\103\145\162\164\040
\107\151\157\142\141\154\040\122\157\157\164\040\107\063\060\036
\027\015\061\063\060\070\060\016\061\026\060\060\060\060\132\027
\015\063\070\060\061\061\065\061\062\060\060\060\060\132\060\141
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\041\151\147\151\103\145\162\164
\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\0167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\040\060\036\060\003\125\004\003\023\027\104\151\147\151\103\145
\162\164\040\017\154\142\141\154\040\122\157\157\164\040\107
\063\060\166\060\020\060\007\052\206\110\031\060\020\001\006\005
\053\201\004\000\042\003\142\000\004\335\247\331\127\231\212\270\013
\373\013\177\041\322\360\276\276\163\363\063\135\032\274\064\352
\336\306\233\274\320\225\366\303\143\320\013\272\141\133\121\116
\176\263\055\237\356\216\143\014\027\354\007\160\365\317\204\056
\100\203\234\350\077\101\155\073\255\323\244\024\131\066\170\0235
\003\103\356\020\023\154\162\336\256\210\024\274\113\265\103\316
\147\334\043\377\003\030\342\342\076\243\102\060\100\060\170\006
\003\125\035\023\001\001\377\004\040\003\002\001\206\060\035
\006\060\03\125\035\017\001\001\377\004\040\003\002\001\206\060\035
\006\060\03\125\035\016\004\026\004\024\263\333\110\244\371\241\130
\130\025\066\101\134\021\114\151\142\051\274\113\306\060\120\006
\101\005\220\061\110\316\075\004\030\003\030\150\000\060\145\002\061
\000\252\274\362\136\254\077\022\112\321\055\071\030\120\011\227\163
\364\210\066\214\210\047\273\346\210\215\120\205\247\143\371\1236
\062\336\146\223\017\361\134\261\011\121\335\154\253\372\133\177
\240\002\060\171\146\133\032\144\215\270\236\120\344\025\032\111
\242\355\307\334\321\111\177\027\001\027\031\026\021\116\214\210
\053\250\232\251\212\035\321\000\275\370\124\342\232\345\133\174
\263\047\027
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,O=www.digicert.com,O=DigiCert Inc,C=US
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\133\060\101\000\003\125\004\006\023\002\125\123\061
\025\060\023\000\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\176\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\014\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\133\060\011\000\003\125\004\006\023\002\125\123\061
\025\060\023\000\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\176\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\014\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167\165\134
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\220\060\202\003\170\240\003\002\001\002\002\020\200\200
\233\033\127\236\216\041\062\342\071\007\275\247\167\165\134\060
\015\006\011\052\061\110\206\367\015\001\010\014\005\000\060\142
\061\136\060\111\006\003\125\004\006\023\002\125\123\061\025\060
\232\030\003\125\004\012\023\014\104\151\147\151\103\145\162\164
\040\111\156\143\061\103\060\027\006\003\125\004\013\023\020\167
\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061
\041\060\037\006\003\125\004\003\023\030\014\151\147\151\103\145
\162\164\040\124\162\165\163\164\145\144\040\122\157\157\164\040
\107\064\060\206\362\071\056\103\060\070\060\061\061\062\060\060
\060\060\132\027\015\063\070\060\061\061\062\060\060\060
\060\132\060\142\061\103\060\011\060\003\125\004\006\023\002\125
\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151
\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004
\013\023\020\167\167\167\056\144\151\147\151\143\145\162\164\056
\143\157\155\061\041\060\206\370\006\003\125\004\003\023\030\014\151
\147\151\103\145\162\164\040\124\162\165\163\164\145\144\040\122
\157\157\164\040\107\064\060\202\002\024\062\060\150\006\111\052\206
\110\206\367\015\001\001\005\000\003\202\002\017\000\060\202
```c
\004\356\214\233\107\201\162\015\300\024\062\357\060\131\056\256
\340\161\362\126\344\152\227\157\222\120\055\226\215\150\172\232
\262\066\024\172\006\362\044\271\101\110\211\12\327\001\261\270\211
\172\204\043\141\102\051\345\243\315\254\240\010\132\327\234\144
\331\135\204\246\213\202\043\327\114\031\262\120\101\161\075\077\115
\160\043\206\014\112\334\021\322\234\062\224\204\015\010\111\227
\034\117\300\356\153\040\164\060\322\340\071\064\020\205\041\025
\001\100\350\125\062\336\161\111\331\050\027\120\115\346\276\115
\321\165\254\320\312\127\371\101\270\103\345\252\323\030\051\104\117
\054\066\233\342\237\224\052\307\043\123\154\006\157\147\125\177
\106\265\114\077\156\050\013\121\104\342\222\244\250\142\227\322\036
\342\235\112\213\274\033\375\107\112\150\137\147\146\176\262\133
\101\320\073\344\036\073\364\004\143\351\135\373\02\12\400\00\121\240
\212\052\311\316\170\314\325\352\207\004\030\263\316\257\111\210
\257\53\222\231\266\263\346\141\017\322\025\000\034\120\032\344
\033\225\235\031\241\271\234\261\233\261\100\036\357\320\017\117
\102\254\110\12\274\356\103\372\072\161\125\345\110\154\046\245\065
\375\211\135\274\205\142\035\062\323\224\053\124\355\232\127\301
\333\372\020\317\031\126\213\120\033\217\100\026\047\225\123\350
\266\211\155\133\274\150\324\043\359\213\121\242\126\317\130\024
\200\240\326\206\263\274\017\101\123\165\051\252\325\023\167\344
\336\214\201\041\125\007\020\107\021\225\207\075\007\32\116\5274
\317\363\416\176
```

# Trust for "DigiCert Trusted Root G4"

# Issuer: CN=DigiCert Trusted Root G4, OU=www.digicert.com, O=DigiCert Inc, C=US
# Subject: CN=DigiCert Trusted Root G4, OU=www.digicert.com, O=DigiCert Inc, C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\373\026\315\111\061\311\163\124\200\317\157\077\310\072\115\175
\167\135\005\344

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\170\362\374\252\140\037\057\264\353\311\067\272\123\056\165\111

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END
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\144\151\147\151\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\104\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\233\033\127\236\216\041\062\342\071\007\275\247\167
\165\134
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "COMODO RSA Certification Authority"
#
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\061\033\060\033\060\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\115\143\150\145\163\164\145\162\061\020\006
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\013\117\115\117\104\117
\040\103\101\100\114\151\115\151\164\145\144\006\105\030\060\051\006
\003\125\004\003\023\042\010\17\115\117\104\170\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
# Trust for "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273\315\172\214\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\03\30\6\1\260\1\61\1\00\0\6\3\14\2\24\0\66\2\21\1\25\5\30\4\0\76\375\354\0\20
END
CKA_ISSUER MULTILINE_OCTAL
\0\6\0\2\0\1\2\0\5\0\6\0\1\0\1\3\0\6\0\0\1\1\0\0\6\0\0\0\3\1\2\5\0\0\4\0\6\0\2\3\0\0\2\1\0\7\1\0\2
\0\6\1\0\3\3\0\6\0\0\3\1\0\6\0\0\0\3\1\2\5\0\0\4\0\1\0\2\3\0\2\2\1\0\7\1\6\2\1\4\5\1\4\1\1\64
\1\4\5\1\6\2\0\4\0\1\1\5\1\4\1\1\5\0\1\4\5\1\6\3\1\6\4\1\4\5\1\6\2\0\6\1\0\2\0\0\0\6

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\016\006\003\125\004\000\07:\023\000\07:123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\000\012\023\021\103\117\115\117\104\117
\040\103\101\104\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\002\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133\003
\206\235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "USERTrust RSA Certification Authority"
#
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\210\061\013\060\001\106\006\003\125\004\000\060\023\002\125\123
\061\023\060\002\210\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\000\07:023\013
\112\145\162\163\145\171\040\103\151\164\171\016\036\060\034:006
\003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054:006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\063\015\273\242\320\172\154\121\367\016\351\015 \332\271\125\216 END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\376\151\321\221\267\031\063\243\162\250\017\341\125\345\265 END
CKA_ISSUER_MULTILINE_OCTAL
\060\201\210\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\023\060\021\006\003\125\004\010\023\012\116\145\167\040\112 \145\162\163\145\171\061\024\060\022\060\003\125\004\007\023\013 \112\145\162\163\145\171\040\03\151\164\171\061\036\060\034\006 \003\125\004\012\023\025\124\150\145\040\125\123\105\122\124\122


```
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\122\123\101\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\001\375\155\060\374\243\312\121\250\033\274\144\016\065
\003\055

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "USERTrust ECC Certification Authority"
#
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\313\312\135\262\325\052\177\151\073\147\115\345\360\132\035
\104\225\175\360
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\372\150\274\331\265\177\255\375\311\035\006\203\050\314\044\301
END
CKA_ISSUER MULTILINE_OCTAL
\066\147\241\026\010\334\344\227\000\101\035\116\276\341\143\001
\317\073\252\102\021\144\240\235\224\071\002\021\171\113\134\173\035
\372\044\271\135\066\026\102\263\277\212\302\011\304\354\344\261\115
\002\206\010\000\351\052\141\107\214\122\112\113\116\030\160\366\326
\104\326\156\365\203\272\155\130\275\044\331\126\110\352\357\304
\242\066\021\210\152\072\106\321\251\233\115\311\141\332\321\135
\127\152\030
END
OPEN SOURCE USED IN DATA CENTER NETWORK MANAGER 11.5(1) 303080

# Certificate "GlobalSign ECC Root CA - R4"

# Issuer: CN=GlobalSign, O=GlobalSign, OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign, O=GlobalSign, OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Thu Jan 19 03:14:07 2038

cka_class CK_OBJECT_CLASS CKO_CERTIFICATE
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "GlobalSign ECC Root CA - R4"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
cka_subject MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123\151\147\156\040\015\103\101\040\122\064\061\023\060\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151\
\147\156\061\023\060\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060

cka_id UTF8 "0"
cka_issuer MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123\151\147\156\040\015\103\101\040\122\064\061\023\060\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151\
\147\156\061\023\060

cka_serial_number MULTILINE_OCTAL
\002\021\052\070\244\034\226\012\004\336\102\262\050\245\013\350\064\230\002

cka_value MULTILINE_OCTAL
\060\202\001\341\060\202\001\207\240\003\002\001\002\002\201\052\070\244\034\226\012\004\336\102\262\050\245\013\350\064\230\002
\060\012\006\010\052\206\110\131\166\075\004\003\002\060\120\061\044
\060\042\006\003\125\004\013\023\033\107\154\157\142\141\154\123
\151\147\156\040\105\103\100\104\122\157\157\164\104\010\101\104
\055\040\122\064\061\102\033\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\160\012\060\021\006\003\125
\004\03\023\012\010\107\154\157\142\141\154\123\151\147\156\060\036
\027\015\061\062\061\061\063\060\060\132\027
\015\063\070\060\061\017\100\063\061\064\060\067\132\060\120
\061\044\060\042\006\003\125\004\013\023\033\107\154\157\142\141
\154\123\151\147\156\040\105\103\103\040\122\157\157\164\040\103
\101\040\055\040\122\064\061\102\033\060\021\006\003\125\004\012\023
\012\107\154\157\142\141\154\123\151\147\156\012\060\021\006
\003\125\004\03\023\012\010\107\154\157\142\141\154\123\151\147\156
\060\011\031\006\023\006\007\152\206\110\131\166\075\002\001\006\010\052
\206\110\131\166\075\003\001\100\073\003\125\001\006\010\052
\154\1045\101\162\370\056\071\031\034\003\244\252\32\345\071\007\111
\026\312\143\326\127\106\370\012\127\301\172\37\163\012\132\163\241
\367\145\102\377\036\301\100\026\156\163\016\377\307\104\134\5030
\244\252\331\161\077\250\324\271\131\162\140\35\243\102\060\100\060
\016\006\003\125\035\17\001\001\377\004\004\003\002\001\006\006
\017\006\003\125\035\023\010\117\377\004\005\060\003\001\010\1377
\060\035\006\003\125\035\016\004\026\004\024\12\24\260\173\255\105
\270\034\100\177\373\012\156\372\327\063\311\074\243\0325\060
\012\006\010\052\206\110\131\166\075\004\003\002\003\110\000\060\105
\002\041\000\334\222\241\124\002\32\463\17\003\260\346\304\1227
\220\372\024\127\055\003\354\356\074\323\156\125\020\154\166\274
\242\336\273\002\040\047\250\205\047\065\233\126\060\243\3621\078
\332\267\156\033\020\000\027\252\147\240\025\2213\036\372\224\354
\173\013\370\237\204

END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign, O=GlobalSign, OU=GlobalSign ECC Root CA - R4
# Serial Number: 2a:38:a4:1c:96:0a:04:de:42:62:28:a5:0b:02:00:00:00:02:00:02:00:00:02:00:00:
# Subject: CN=GlobalSign, O=GlobalSign, OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
# Trust for "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\044\306\060\315\244\030\357\040\151\377\255\117\335\137\106
\072\033\151\252

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\255\073\034\002\036\212\272\027\164\070\201\014\242\274\010

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\003\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\105\103\040\122\157\157\164
\104\013\101\040\055\040\122\065\061\023\060\021\006\003\125\004
\012\023\012\071\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\071\154\157\142\141\154\123\151
\147\156

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\0273\125\371\012\167\212\161\371
\112\330\154

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Staat der Nederlanden Root CA - G3"
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\227\311\356\374
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\013\106\147\007\333\020\057\031\121\065\032\013\364\067
END
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\013\101\040\055\040\013\007\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\242\071
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Staat der Nederlanden EV Root CA"
#
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\060\047\006\003\125\004\003\014\040\012\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\013\010
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
Open Source Used In Data Center Network Manager 11.5(1) 33091

# Trust for "Staat der Nederlanden EV Root CA"
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\342\176\301\117\333\202\301\300\246\165\265\005\276\075\051
\264\355\333\273

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\374\006\257\173\350\032\361\232\264\350\322\160\037\300\365\272

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\141\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\060\047\006\003\125\004\003\140\040\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\103\101

END

END

# Certificate "IdenTrust Commercial Root CA 1"
#

# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number: 0a:01:42:80:00:00:01:45:23:e8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:02:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After: Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\161\176\252\112\331\116\311\125\204\231\140\055\110\336\137
\274\360\072\045
END
# Certificate "IdenTrust Public Sector Root CA 1"

# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number: 0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After: Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END
CKA_NSS MOZILLA CA POLICY CK BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK BBOOL CK_FALSE

# Trust for "IdenTrust Public Sector Root CA 1"
# Issuer: CN=IdenTrust Public Sector Root CA 1, O=IdenTrust, C=US
# Serial Number: 0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1, O=IdenTrust, C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After: Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):
CKA_CLASS CK OBJECT_CLASS CKO_NSS TRUST
CKA_TOKEN CK BBOOL CK_TRUE
CKA_PRIVATE CK BBOOL CK_FALSE
CKA_MODIFIABLE CK BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\272\051\101\140\167\230\077\364\363\357\362\061\005\073\056\352
\155\115\050\375
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\006\245\260\374\211\123\272\364\153\214\032\144\315\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\151\060\101\130\060\011\100\060\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\157\164\040\103\101\40\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\000\010\050\043\317\106\174\000\000
\000\000
END
CKA_TRUST_SERVER_AUTH CK TRUST CKT_NSS TRUSTED DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK TRUST CKT_NSS TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK TRUST CKT_NSS MUST VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK BBOOL CK_FALSE

# # Certificate "Entrust Root Certification Authority - G2"
#
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only", OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538e28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only", O=See www.entrust.net/legal-terms,OU="Entrust, Inc.",C=US
only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\276\061\013\060\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\010\5\156\164\162\165
\163\164\054\040\011\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\051\156\154\157\154\147\141\154\055\156\145\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\010\5\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\110\5\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\001\110\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\010\5\156\164\162\165
\163\164\054\040\011\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\051\156\154\157\154\147\141\154\055\156\145\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\010\5\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\110\5\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\076\060\020\003\046\240\003\002\001\002\002\004\112

Open Source Used In Data Center Network Manager 11.5(1) 33099
END

CKA_NSS_MOZZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority - G2"
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After: Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\214\364\047\375\171\014\072\321\146\006\215\350\036\127\357\273
\223\042\62\324
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\113\342\311\221\226\145\014\364\016\132\223\222\240\012\376\262
END
# Certificate "Entrust Root Certification Authority - EC1"

# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"

// Certificate Type CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\277\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\010\55\164\162\165
\163\164\054\000\111\156\143\056\061\050\060\046\006\003\125\123
\013\023\037\123\145\145\040\023\067\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\015\156\146\162\165\163\164\054\010\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\110\156\146\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END

CKA_ISSUER MULTILINE_OCTAL
\060\020\277\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\010\55\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\123
\013\023\037\123\145\145\040\023\067\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\015\156\146\162\165\163\164\054\010\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\110\156\146\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\214\050
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "Entrust Root Certification Authority - EC1"

# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Serial Number:00:a6:8b:79:29:00:00:00:50:d0:91:f9

# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US

# Not Valid Before: Tue Dec 18 15:25:36 2012

# Not Valid After: Fri Dec 18 15:55:36 2037

# Fingerprint (SHA-256):
02:ED:0E:B2:8C:14:DA:45:16:5C:56:67:91:70:00:00:00:50:d0:91:f9

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
# Certificate "CFCA EV ROOT"

# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After: Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
# Trust for "CFCA EV ROOT"

# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184acc6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\270\051\113\125\204\253\153\130\032\220\106\154\254\077\270\071\217\204\203

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\341\126\355\046\172\172\104\060\063\224\253\173\047\201\060

END

CKA_ISSUER_MULTILINE_OCTAL
\060\126\061\013\060\011\100\003\125\004\006\023\002\103\116\061\060\060\056\000\003\125\004\012\014\047\103\150\151\156\141\040\106\151\156\141\143\151\141\154\040\013\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "OISTE WISEKey Global Root GB CA"

# Issuer: CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Subject: CN=OISTE WISEKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_ISSUER MULTI_LINE_OCTAL
\040\040\155\013\040\11\106\003\125\040\006\023\002\103\110\061
\171\061\042\069\004\006\003\125\040\130\031\177\111\123\124
\105\040\106\156\147\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\150\060\046\006\003\125\040\130\023\037
\171\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101

CKA_SUBJEC MULTI_LINE_OCTAL
\040\040\155\013\040\11\106\003\125\040\006\023\002\103\110\061
\171\061\042\069\004\006\003\125\040\130\031\177\111\123\124
\105\040\106\156\147\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\150\060\046\006\003\125\040\130\023\037
\171\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101

CKA_SERIAL_NUMBER MULTI_LINE_OCTAL
\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366


```
\161\130\227\175\256\067\024\257\076\347\367\232\342\175\366\161
\230\231\004\252\103\164\170\243\333\111\114\017\063\163\214\115\224
\340\371\161\130\048\266\026\016\123\170\037\326\242\207\057\002\071
\201\051\074\257\025\230\041\060\376\050\200\000\214\321\341\133
\372\136\310\375\370\020\106\073\242\170\102\221\027\164\125\012
\336\120\147\115\146\321\247\377\375\333\130\026\250\243\212\316
\146\365\017\103\315\247\053\127\173\143\106\152\252\056\122\330
\364\355\341\115\255\051\122\200\170\110\272\341\043\252\243\211\354
\265\253\226\300\264\113\242\035\227\236\172\362\156\100\161\133
\150\361\145\115\316\174\005\337\123\145\251\124\360\261\122\304
\160\025\106\003\230\324\322\277\124\264\240\130\175\122\157\332
\126\046\142\324\330\333\322\116\157\034\360\042\302\323\142\034
\065\315\114\151\025\124\032\220\230\336\353\036\137\312\167\307
\313\216\075\103\151\234\232\130\320\044\073\337\033\100\226\176
\065\255\201\037\116\161\272\210\023
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\371\100\166\030\323\327\152\113\230\360\250\065\236\014\375
\047\254\314\355
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\353\271\141\050\050\065\267\057\230\260\065\046\220\231\121\035
END

CKA_ISSUER MULTILINE_OCTAL
\060\155\061\103\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\004\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\050\040\127\111\123\145\113\145\171\040\107\154
```
# Certificate "SZAFIR ROOT CA2"

# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After : Fri Oct 19 07:43:30 2035

# Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\000\023\002\120\114\061
\050\060\046\006\003\125\004\012\140\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\066\111\122\040\122\117\117\124\040
\103\101\062

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\000\023\002\120\114\061
\050\060\046\006\003\125\004\012\140\037\113\162\141\152\157\167
\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125
\004\003\014\017\123\132\101\066\111\122\040\122\117\117\124\040
\103\101\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001
\353\055\334\344\326\344
# Trust for “SZAFIR ROOT CA2”
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After : Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Certum Trusted Network CA 2"
#
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\021\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\021\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.,C=PL
# Serial Number:21:d6:d0:4a:4f:2f:0c:e9:32:7b:3f:aa:5e:12:8d:e9
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies
# S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\335\110\076\053\277\114\005\350\257\020\365\372\166\046\317
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\236\331\/045\155\010\043\133\136\164\175\036\047\333\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\101\306\011\006\003\125\004\006\023\002\120\014
\061\042\060\040\000\006\125\004\120\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\105\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\101\326\320\112\117\045\017\311\062\067\174\252\136\022
\215\351
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
### Certificate "Hellenic Academic and Research Institutions RootCA 2015"

#### Issuer:
**CN=Hellenic Academic and Research Institutions RootCA 2015**, **O=Hellenic Academic and Research Institutions Cert. Authority**, **L=Athens**, **C=GR**

#### Subject:
**CN=Hellenic Academic and Research Institutions RootCA 2015**, **O=Hellenic Academic and Research Institutions Cert. Authority**, **L=Athens**, **C=GR**

- **Not Valid Before**: Tue Jul 07 10:11:21 2015
- **Not Valid After**: Sat Jun 30 10:11:21 2040

#### Fingerprints


#### Attributes

- **CKA_CLASS**: CK_OBJECT_CLASS
- **CKA_TOKEN**: CK_BBOOL
- **CKA_PRIVATE**: CK_BBOOL
- **CKA_MODIFIABLE**: CK_BBOOL
- **CKA_LABEL**: UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
- **CKA_CERTIFICATE_TYPE**: CK_CERTIFICATE_TYPE
- **CKA_SUBJECT**: MULTILINE_OCTAL
- **CKA_ISSUER**: MULTILINE_OCTAL
- **CKA_ID**: UTF8 "0"

---

**Open Source Used In Data Center Network Manager 11.5(1) 33119**


\112\245\163\040\300\072\257\220\361\232\044\216\331\216\161\312
\173\270\206\332\262\217\231\076\035\023\150\022\021\356\324\253
\360\351\025\166\000\344\340\337\252\040\036\133\141\205\144\100
\251\120\227\015\255\123\322\132\035\207\152\000\227\145\142\264
\276\157\152\247\365\054\102\355\062\255\266\041\236\276\274
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\001\014\006\225\246\031\024\377\277\137\306\260\266\225\352
\051\351\022\246
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\001\014\006\225\246\230\031\024\377\277\137\306\260\266\225\352
\051\351\022\246
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\170\066\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\010\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\161\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003
\023\067\110\145\154\154\145\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\151\157\156\163\040\122\157
\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

Open Source Used In Data Center Network Manager 11.5(1) 33122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"
#
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\252\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\17\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\075\101\145\156\154
\145\156\151\143\040\101\143\141\144\155\155\151\143\040\141\156
\144\040\122\156\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\156\162\164\056\040\101\165
\164\150\157\162\151\164\17\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\104\062\060\061\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\252\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\17\060\015\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\075\101\145\156\154
\145\156\151\143\040\101\143\141\144\155\155\151\143\040\141\156
\144\040\122\156\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\156\162\164\056\040\101\165
\164\150\157\162\151\164\17\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\104\062\060\061\065
END
# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015, O=Hellenic Academic and Research Institutions Cert. Authority, L=Athens, C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\361\161\215\222\325\322\336\175\164\227\264\274\157\204\150
\013\272\266\146
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\201\345\264\027\353\302\365\341\113\015\101\173\111\222\376\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\252\061\103\060\011\006\003\0125\004\006\023\002\107\122
\061\107\060\015\006\003\0125\004\006\023\006\101\164\150\145\156
\163\061\104\060\012\060\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\154\145\156\151\143\040\110\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\140\111\156\163\164\151\164\165\163\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "ISRG Root X1"
#
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After: Mon Jun 04 11:04:38 2035
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\040\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\040\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000
END
CKA_VALUE MULTILINE_OCTAL
\060\020\005\153\060\202\003\123\240\003\02\001\002\002\021\000
\202\202\317\260\322\100\343\131\104\143\340\273\143\202\213\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\035\023\001\001\377\004\005\060\003\001\001\377\006\003\035\006\003
\125\035\016\004\026\004\024\171\264\131\346\173\266\345\344\001
\163\200\010\120\031\032\031\036\036\351\233\156\060\015\006\001\052
\206\010\206\367\015\001\010\013\005\000\003\020\002\000\010\0125
\037\130\251\274\262\250\120\320\133\032\151\040\047\051
\10\025\14\11\165\134\212\156\370\020\345\151\057\325\366\126\113
\271\127\016\30\020\131\323\041\227\176\347\114\161\373\262\322\140
\255\071\250\013\352\027\074\112\260\356\112\016\113\135\331\363\40
\131\351\272\311\025\357\206\235\217\204\200\366\344\351\221\220
\334\027\233\142\033\105\360\146\225\322\217\41\157\302\352\073\357
\037\317\131\326\256\047\361\251\260\301\256\375\175\176\232\372
\042\004\353\377\331\177\352\221\105\304\226\102\076\161\362\212
\064\133\130\303\374\001\311\112\24\271\270\046\314\212\210\063\211
\114\055\204\074\204\377\356\226\277\050\272\054\273\367\304\267
\307\116\073\202\227\260\061\130\042\163\63\222\321\032\200\244\071
\071\102\006\304\032\201\114\074\237\206\262\125\230\035\276\051\026
\214\042\233\236\342\153\073\127\072\202\160\115\334\011\073\211
\313\102\007\115\154\350\135\216\311\357\316\253\307\273\265\053
\116\105\326\112\320\046\321\43\345\162\312\010\152\045\225\034\302
\241\367\244\355\311\054\137\245\373\377\372\254\050\002\056\267\327
\173\273\343\161\173\220\002\263\230\007\136\016\123\174\067\007\102
\214\323\304\226\234\325\231\126\052\340\225\032\200\110\125\061
\071\007\316\134\107\244\122\225\053\272\270\373\255\322\063\123
\175\345\035\151\155\325\241\261\307\012\157\346\100\047\065\134
\243\050\267\007\215\347\215\063\220\347\043\237\373\120\234\171
\154\106\335\256\025\263\226\156\176\233\014\226\072\270\122\055
\073\262\133\341\373\010\302\204\376\044\250\243\211\332\254\152
\314\101\052\261\250\013\141\133\332\037\334\073\215\166\032\055
\350\215\165\377\027\063\154\075\123\373\173\313\011\137\377\334
\242\320\141\070\344\226\270\254\135\213\067\327\165\325\063\300
\231\021\256\235\101\031\116\215\204\276\002\101\021\373\147\044
\110\224\321\123\304\076\276\007\271\270\117\201\164\121\341\172
\267\355\235\043\342\276\340\325\050\004\023\074\061\003\236\335
\172\154\217\306\007\303\036\177\336\107\216\077\050\236\004\006
\317\245\124\064\167\275\354\211\233\351\027\103\337\133\333\137
\376\216\036\127\242\315\100\235\176\142\042\323\336\030\047
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):

Open Source Used In Data Center Network Manager 11.5(1) 33128
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\312\275\052\171\241\007\152\061\362\035\045\066\065\313\003\235
\103\051\245\350
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\014\322\371\340\332\027\163\351\355\206\115\245\343\160\347\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\020\020\317\260\322\100\343\313\104\143\340\273\143
\202\213\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AC RAIZ FNMT-RCM"
#
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
END  
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE  
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE  
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE  

# Trust for "AC RAIZ FNMT-RCM"  
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES  
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES  
# Not Valid After: Tue Jan 01 00:00:00 2030  
# Fingerprint (SHA-256):  
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST  
CKA_TOKEN CK_BBOOL CK_TRUE  
CKA_PRIVATE CK_BBOOL CK_FALSE  
CKA_MODIFIABLE CK_BBOOL CK_FALSE  
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"  
CKA_CERT_SHA1_HASH MULTILINE_OCTAL  
\354\120\065\007\262\025\304\122\142\031\342\250\232\133\102\231\054\114\054\040 END  
CKA_CERT_MD5_HASH MULTILINE_OCTAL  
\342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035 END  
CKA_ISSUER MULTILINE_OCTAL  
\060\073\061\013\060\011\006\003\125\004\006\023\002\105\123\061 \021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122 \103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040 \122\101\111\132\040\106\116\115\124\055\122\103\115 END  
CKA_SERIAL_NUMBER MULTILINE_OCTAL  
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151 \007 END  
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "Amazon Root CA 1"

# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"

CKA_MODIFIED NAME "Amazon Root CA 1"
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\001\110\060\003\132\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103\346\226\066\133\312
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Open Source Used In Data Center Network Manager 11.5(1) 33134
# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sun Jan 17 00:00:00 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\247\371\145\354\136\374\067\221\017\034\156\131\375\301\314
\152\156\336\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\306\277\256\354\376\225\057\030\036\210\150\060\374\310\346
END
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\012\023\006\011\001\014\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\012\023\006\011\001\014\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END
CKA_VALUE MULTILINE_OCTAL
\060\020\005\011\060\020\003\051\024\000\032\000\010\002\002\023\006
\154\237\322\226\065\206\237\012\017\345\206\170\370\133\046\273
\212\067\006\150\006\011\052\026\011\020\063\071\015\001\001\014\005
\000\060\071\106\101\006\003\125\004\006\023\002\125\123
\061\017\060\015\006\003\125\004\012\023\006\011\155\141\172\157
\156\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172
\157\156\040\011\225\157\164\040\010\101\040\062\060\036\027\015
\061\065\060\065\062\066\060\060\060\060\060\060\060\060\060\060\060\060\060
\003\125\004\012\023\006\011\155\141\172\157\156\061\031\063\060\027
\006\003\125\004\003\023\020\101\155\141\172\157\156\040\012\221\157
\157\164\040\010\101\040\062\060\020\042\060\015\006\011\052
\206\110\020\063\367\015\001\001\001\005\000\003\020\002\017\000\060
\020\002\001\012\002\020\002\000\000\025\022\226\237\055\234\112\114\112
\017\111\212\131\354\123\313\153\140\121\023\274\115\155\060\374
\260\010\215\335\031\020\152\307\046\014\065\330\300\015\040\204
\351\122\261\213\232\050\033\033\133\333\112\350\031\037\022\001\166\331
\133\117\334\114\350\006\066\115\142\232\254\075\014\220\053\322
\324\006\031\114\025\046\014\171\205\201\012\255\132\067\340\015
\314\252\246\114\122\166\352\032\235\267\004\321\120\366\125\340
\325\352\224\611\205\351\067\351\312\176\256\134\225\115\110\232
\077\256\040\132\155\210\225\331\064\270\120\032\103\220\260\277
\154\005\271\266\170\267\352\320\344\072\074\022\123\142\377\112
Open Source Used In Data Center Network Manager 11.5(1) 33137
# Trust for "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Amazon Root CA 2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\130\345\215\316\250\102\342\172\300\052\134\174\236\046\277\146

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Amazon Root CA 3"
#
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\000\125\004\006\023\002\125\123\061
\017\060\015\006\000\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\000\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\325\164\227\066\146\077\073\013\232\331\1350
\236\166\003\362\112
END
CKA_VALUE MULTILINE_OCTAL
\060\022\001\266\060\022\001\13\240\003\002\001\002\002\023\006
\154\237\325\164\227\066\146\077\073\013\232\331\1350\236\166\003
\362\112\060\012\006\010\052\020\061\103\160\075\004\003\002\060\071
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\017\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\011\031
\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040
\122\157\157\164\040\103\101\040\063\060\036\027\015\061\065\060
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\065\062\066\060\060\060\060\060\060\060\060\132\027\015\064\060\060\060\065
\062\060\060\060\060\060\060\060\060\060\132\060\071\061\013\060\011\006
\003\125\004\006\060\023\002\125\123\061\017\060\015\060\060\003\125\004
\012\023\060\011\155\141\172\157\156\061\031\060\027\006\003\125
\004\003\023\020\101\155\141\172\157\156\040\122\157\157\164\040
\103\010\040\063\060\131\060\023\006\007\052\206\011\301\167\050\002
\001\006\010\052\206\011\301\167\050\003\001\007\003\102\000\004\051
\227\247\306\011\177\300\015\233\350\001\133\126\306\362\122\245
\272\055\262\022\352\327\327\313\305\330\252\155\037\163
\201\073\073\230\153\071\174\063\245\305\116\206\216\200\027\150
\142\105\127\175\104\130\035\263\067\345\147\010\353\146\336\243
\102\060\100\069\017\006\003\125\035\023\001\137\007\040\050\060
\003\001\001\017\377\060\016\006\003\125\035\017\001\001\137\007\040\044
\003\002\001\026\060\060\035\000\003\125\035\016\004\026\004\024\253
\266\033\327\006\236\067\254\060\206\007\221\160\307\234\304\031
\261\170\300\060\012\006\010\052\206\110\316\075\004\003\020\003
\111\000\060\106\002\041\000\340\205\222\243\027\267\215\371\053
\006\024\223\254\032\230\150\141\162\327\341\241\320\373\034\170
\140\246\103\231\305\270\304\002\041\000\234\002\357\361\224\234
\263\226\373\353\306\052\237\026\054\376\072\220\024\026\327\214
\143\044\110\034\337\370\060\175\325\150\073

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\015\104\335\214\074\214\032\032\130\165\144\201\351\017\056\052
\377\263\322\156

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\240\324\357\013\367\265\330\111\122\052\354\365\304\374\201\207

END

CKA_ISSUER MULTILINE_OCTAL

Open Source Used In Data Center Network Manager 11.5(1) 33140
# Certificate "Amazon Root CA 4"

# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
```

```
%60%071%06%101%3%06%00%01%1%06%00%03%125%00%4%0%06%023%00%2%125%12%3%061
%01%7%06%01%5%00%6%00%03%125%00%4%0%06%023%00%2%125%12%3%061
%06%1%03%1%06%00%2%7%00%6%00%03%125%00%4%0%03%023%00%2%125%12%3%061
%15%6%0%4%0%12%2%15%7%15%7%16%4%0%4%0%10%1%0%4%0%064
END
```

```
CKA_ID UTF8 "0"
```

```
%60%071%06%101%3%06%00%01%1%06%00%03%125%00%4%0%06%023%00%2%125%12%3%061
%01%7%06%01%5%00%6%00%03%125%00%4%0%06%023%00%2%125%12%3%061
%06%1%03%1%06%00%2%7%00%6%00%03%125%00%4%0%03%023%00%2%125%12%3%061
%15%6%0%4%0%12%2%15%7%15%7%16%4%0%4%0%10%1%0%4%0%064
END
```

```
CKA_ISSUER_MULTILINE_OCTAL
\%60%071%06%101%3%06%00%01%1%06%00%03%125%00%4%0%06%023%00%2%125%12%3%061
%01%7%06%01%5%00%6%00%03%125%00%4%0%06%023%00%2%125%12%3%061
%06%1%03%1%06%00%2%7%00%6%00%03%125%00%4%0%03%023%00%2%125%12%3%061
%15%6%0%4%0%12%2%15%7%15%7%16%4%0%4%0%10%1%0%4%0%064
END
```

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\%02%02%3%00%6%01%5%2%3%7%3%2%0%1%2%7%3%0%2%0%2%1%14%0%5%1%0%3%3%4%5%1%6%1%7%3%173
%0%5%4%3%0%3%2%3%0%1%0%16
END
```
# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\274\047\325\353\027\215\006\152\151\325\230\107\264\031
END
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"

# Certificate "LuxTrust Global Root 2"
#
# Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Not Valid Before: Thu Mar 05 13:21:57 2015
# Not Valid After : Mon Mar 05 13:21:57 2035
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\061\113\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\014\101\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\107\154\157\142\141
# Trust for "LuxTrust Global Root 2"
# Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Not Valid Before: Thu Mar 05 13:21:57 2015
# Not Valid After : Mon Mar 05 13:21:57 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"
CKA_ISSUER MULTILINE_OCTAL
\036\016\126\012\321\213\045\230\262\004\104\377\146\212\004
\027\231\137\077

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\036\016\126\012\321\213\045\230\262\004\104\377\146\212\004
\027\231\137\077

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\060\106\013\060\011\006\003\132\500\04\006\023\002\114\125\061
\026\060\024\000\003\132\500\04\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\132\500\04\003
\014\026\114\165\170\124\162\165\163\164\040\107\154\157\142\141
\154\040\122\157\157\164\040\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\012\176\246\337\113\014\236\332\152\044\205\236\346\270
\025\323\026\177\273\261
Open Source Used In Data Center Network Manager 11.5(1)  33147

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_ASSIGNED CK_BBOOL CK_FALSE

#
# Certificate "Symantec Class 1 Public Primary Certification Authority - G6"
#
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\021\224\061\013\060\0011\006\0003\125\0004\006\023\002\125\123
\061\035\060\003\006\0003\125\0004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060\035\006\0003\125\0004\013\023\026\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\0003\125\0004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\021\224\061\013\060\0011\006\0003\125\0004\006\023\002\125\123
\061\035\060\003\006\0003\125\0004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061\037\060\035\006\0003\125\0004\013\023\026\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\006\0003\125\0004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\032\352\176\012\171\132\250\275\353\135\206\053\115\002\003\0001
\000\0001\243\102\060\100\060\016\006\003\125\035\017\000\0101\377
\004\004\003\002\000\016\006\001\170\006\003\125\035\023\001\001\377
\004\005\060\003\001\0013\377\060\035\006\003\125\035\016\004\026
\004\024\063\101\350\310\071\022\202\223\223\222\362\226\062\056\132
\365\332\224\224\223\223\223\140\060\015\006\001\105\220\061\110\026\367\15
\001\010\13\005\000\0003\202\001\001\000\025\234\163\127\261\027
\266\171\111\111\104\246\366\136\172\147\254\322\336\165\111\253
\376\045\125\307\072\123\110\040\205\020\156\277\061\153\313\133\007
\223\177\034\205\143\000\343\062\022\340\314\131\373\071\154\217
\342\123\342\074\100\063\331\244\214\107\346\255\130\373\211\257
\343\336\206\051\126\064\054\010\52\070\222\372\104\211\156\055\024
\045\050\044\001\145\232\227\156\016\126\022\201\107\59\320
\164\364\327\275\006\312\250\072\215\126\012\372\215\162\076\164
\361\003\165\237\207\033\136\016\172\125\226\054\070\267\230\205
\315\115\063\104\311\224\217\132\061\060\067\113\243\072\022\263
\347\066\321\041\110\013\055\070\346\123\256\030\045\126\010\126
\003\147\204\235\306\033\160\044\142\307\114\066\317\260\006\104
\267\365\137\002\335\331\124\351\057\220\116\172\310\116\203\100
\014\232\227\074\067\277\277\277\354\366\306\264\020\167\050\301\013
\130\147\202\020\27\070\024\267\006\352\233\377\072\370\351\043
\007\277\164\340\023\070\005\255\125\170\356\162\000\134\031\243\364
\322\063\340\377\275\321\124\071\051\017
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Symantec Class 1 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\177\141\136\051\221\153\123\202\373\162\2347\104\333\215\303
\314\123\155\144
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\057\250\264\332\366\144\113\036\202\371\106\075\124\032\174\260
END

CKA_ISSUERMULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\060\033\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320
\363\230
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Symantec Class 2 Public Primary Certification Authority - G6"
#
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECTMULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\060\033\125\004\013\023\026\123\171\155\141\156
\164\171\040\055\040\107\066
END
END

# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CA_MO

CA_OU

CA_ID

CA_CLASS

CA_TOKEN

CA_LABEL

CA_OCTAL

CA_MODIFIABLE

CA_PRIVATE

CA_MODIFIABLE

CA_SERIAL_NUMBER

CA_TRUST_SERVER_AUTH

CA_EMAIL_PROTECTION

CA_CODE_SIGNING

CA_STEP_UP_APPROVED

# Certificate "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\035\060\033\006\003\125\004\012\023\024\012\013\017\015\141\156
\164\145\143\040\103\015\016\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\012\013\017\015\155\141\156
\145\143\040\124\162\165\163\164\040\011\161\145\164\167\157\162\153
\061\105\060\013\006\003\012\005\004\003\023\074\012\013\017\015\155\141\156
\164\145\143\040\010\013\154\141\163\163\040\061\040\012\016\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\013\145\162\164\151
\146\151\143\141\164\151\157\156\040\010\165\164\150\157\162\151
\164\171\040\055\040\010\070\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\035\060\033\006\003\125\004\012\023\024\012\013\017\015\141\156
\164\145\143\040\103\015\016\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\012\013\017\015\155\141\156
\145\143\040\124\162\165\163\164\040\011\161\145\164\167\157\162\153
\061\105\060\013\006\003\012\005\004\003\023\074\012\013\017\015\155\141\156
\164\145\143\040\010\013\154\141\163\163\040\061\040\012\016\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\013\145\162\164\151
\146\151\143\141\164\151\157\156\040\010\165\164\150\157\162\151
\164\171\040\055\040\010\070\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\156\063\245\313\323\210\244\157\051\007\264\047\074
\304\330
END
CKA_VALUE MULTILINE_OCTAL
\060\020\002\250\060\020\002\055\240\003\002\001\002\002\020\041
\156\063\245\313\323\210\244\157\051\007\264\047\074\304\330
\012\006\010\052\020\061\110\316\075\004\003\003\060\020\224\061\013
\060\011\006\003\125\004\006\023\002\125\123\061\035\060\033\006
\003\125\004\012\023\024\123\171\155\141\156\164\145\143\040\010
# Trust for "Symantec Class 1 Public Primary Certification Authority - G4"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G4"

# Certificate "Symantec Class 2 Public Primary Certification Authority - G4"
#
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Trust for "Symantec Class 2 Public Primary Certification Authority - G4"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After : Mon Jan 18 23:59:59 2038

END
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\044\220\056\110\001\260\042\226\100\020\106\264\261\147\054
\251\165\375\053
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\147\044\220\056\100\001\260\042\226\100\020\106\264\261\147\054
\251\165\375\053
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\160\325\060\361\033\224\227\324\327\164\337\276\355\150\336\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\13\060\001\125\004\006\023\002\125\123
\061\035\060\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\167\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\161\156\164\167\157\162\153
\061\105\060\103\060\000\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\170\040\055\040\107\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\027\145\022\100\073\267\126\200\055\200\013\171\125
\246\036
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "D-TRUST Root CA 3 2013"
#
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\154\174\314\347\324\256\121\137\231\010\315\077\366\350\303\170\337\157\357\227
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\042\146\230\176\326\003\340\301\161\346\165\315\126\010\277
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\104\105\061\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165\163\164\040\107\155\142\110\066\103\067\060\035\006\003\125\004\003\014\026\104\055\124\122\125\123\124\040\122\157\157\164\040\010\101\040\063\040\062\060\061\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\322\061\013\060\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\010\151\154
\151\155\163\145\154\040\166\145\040\124\153\156\157\145\154
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\131\165
\162\165\155\156\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\145\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\131\140\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\322\061\013\060\006\003\125\004\006\023\017\107\145\142\172\145
\140\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\010\151\154
\151\155\163\145\154\040\166\145\040\124\153\156\157\145\154
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\131\140\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\143\060\202\003\113\240\003\002\001\002\002\000\1
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\322\061\013\060\011\006\003\125\004\006\023\002\124\206\1
\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003\125
# Trust for “TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\061\103\144\233\354\160\047\354\355\072\077\013\217\015\344\350
\221\353\356\312
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\000\201\334\151\057\076\057\260\073\366\075\132\221\216\111
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\322\061\013\060\001\000\312\250\004\006\023\002\124\122
OPEN SOURCE USED IN DATA CENTER NETWORK MANAGER 11.5(1) 33166

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GDCA TrustAUTH R5 ROOT"
#
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
# CO.,LTD.",O="CN"
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
# CO.,LTD.",O="CN"
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\151\165\040\055\040\124\125\102\111\124\101\113\061\055
\060\053\006\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\006\003\125\004\003\023\055\124\125\021\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\140\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END
# Trust for "GDCA TrustAUTH R5 ROOT"

# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL\017\066\070\133\201\032\045\303\233\061\116\203\012\014\051\107\125\101\116\040\103\117\056\054\114

CKA_CERT_MD5_HASH MULTILINE_OCTAL\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264

CKA_ISSUER MULTILINE_OCTAL\060\142\060\101\130\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\006\000\03\125\004\012\014\051\107\125\101\116\040\103\117\056\054\114

CKA_SERIAL_NUMBER MULTILINE_OCTAL\002\010\175\011\227\376\360\107\352\172
# Certificate "TrustCor RootCert CA-1"

# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama City, ST=Panama, C=PA
# Serial Number: 00:da:9b:e6:71:3f:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama City, ST=Panama, C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After: Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):

--

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.L.,L=Panama City,ST=Panama,C=PA
# Serial Number: 00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After: Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Certificate "TrustCor RootCert CA-2"

# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After: Sun Dec 31 17:26:39 2034

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
Open Source Used In Data Center Network Manager 11.5(1) 33175

(0060022006003125000400070140163\120141115611411551140140
\1303151164117106104406004200600312500040120140333124
\162165163164103157162040123171116311641451155163040
\1230650401441450401220561140560104706004500606803
\125004110403612416216516164103157162040103145
\162164115116411431411641450401011651641501157162
\151116417106103706003500600312500400300140261124162
\16516316410315716204012215715164103145162164040
\1030105062060202002042060015006011052060110206
\13670150010011005000030202002017000906020020012
\00220202002001000024704011563020052242142442225220166
\31001706200322253301123314505052243643010120020325
\0022543555237223072073126004705310120140751012076
\10111322361165335215311240333354150062244151122150
\2140131201016126240076032333550405024202057227323
\1441063641242511340721240550160153231202362331052
\3273257161000270011224276172044070303102040362012
\32422200400333415126111415432437326611132107043264
\33011512642670273201640740141165241214116166241351
\33330522450733723162603771761520503750407034310126
\35105136112715614426423030125515016276056016106
\310113636412137635701614302702731612723171157131312
\0043433311351112701143212726112301212027234166
\3573257275321150250323264011273167065276045420010
\30402605410404012625110402116733571352640335252136
\153076123062366007057127004222231263576123502351
\35026321611411300206131134407411012020473667030202
\16611097211612610203241071125056305064302035142025
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\047307206060152217022306204136103121120234031233
\1703467343660355107176117305146357023203210137074
\2411143373371254207605237363202126344077012234061
\15121232332442101122161561461153570263040171171050
\044014010520526217532712407031222126375265603114
\203334327020237113375306370102257227174163002340
\3771753151333413242541411731273251121731333324205
\1300471532773770053140254204642650204014047306167
\23206312000741361060773673032612432060603606350136
\015252106505425210630102050216520040335044373025
\25234441471771516167077364004212057174173343027141
\36033501125104031027610112443201761043032620601112
\07002522531354030232007202053333270234030255332340
\106027543173150020030100000101243143060114060035
\006600312500315016004026004024331376041100156224236
\274233075234175230040031345214060142262606037006
\003125035043004030062026002024331376041100156224236
\2362742330752341752300400313452140601422626060017
\006003125035023001001377004005060003001001377060
Open Source Used In Data Center Network Manager 11.5(1) 33176

# Trust for "TrustCor RootCert CA-2"
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\276\155\313\126\361\125\271\143\324\022\312\116\006\064\307\124\262\034\300
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\242\341\370\030\013\272\105\325\120\141\156\141\155
\141\061\024\060\022\060\033\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\060\033\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\013\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TrustCor ECA-1"
#
# Issuer: CN=TrustCor ECA-1.OU=TrustCor Certificate Authority.O=TrustCor Systems S. de R.L.,L=Panama
City,ST=Panama,C=PA
# Serial Number:08:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1.OU=TrustCor Certificate Authority.O=TrustCor Systems S. de R.L.,L=Panama
City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Trust for "TrustCor ECA-1"

# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama
# City,ST=Panama,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama
# City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"

END

CKA_ISSUER MULTILINE_OCTAL
\130\321\337\225\225\147\153\143\300\360\133\034\027\115\204\013\010\170\275\END

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\047\222\043\035\012\365\100\174\351\346\153\235\330\365\347\154 END

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\234\061\130\060\011\006\000\031\250\004\010\014\006\120\141\156\141\155 \141\061\024\060\022\066\003\125\004\007\014\013\120\141\156\141 \155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012 \014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145 \155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060 \045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162 \040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164 \150\157\162\151\164\171\061\027\060\025\006\003\125\004\030\014 \016\124\162\165\163\164\103\157\162\040\105\103\101\105\061 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com Root Certification Authority RSA"
#
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\174\061\013\060\010\006\003\125\004\006\002\125\123\061\101\140\006\003\125\004\010\100\140\005\124\145\170\141\163\061\102\060\016\006\003\125\004\007\140\007\110\157\165\163\164\157\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006\003\125\004\030\140\050\123\123\140\056\143\157\155\040\122\123\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\060\010\006\003\125\004\006\002\125\123\061\101\140\006\003\125\004\010\100\140\005\124\145\170\141\163\061\102\060\016\006\003\125\004\007\140\007\110\157\165\163\164\157\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040\103\157\162\160\157\162\141\164\151\157\156\061\061\060\057\006\003\125\004\030\140\050\123\123\140\056\143\157\155\040\122\123\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\122\123\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231
END
Open Source Used In Data Center Network Manager 11.5(1) 33184

# Trust for "SSL.com Root Certification Authority RSA"
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\253\063\010\321\352\104\167\272\024\200\022\132\157\275\251\066\111\014\273
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\151\022\300\160\036\135\254\254\302\325\274\245\133\241\051
CKA_ISSUER MULTILINE_OCTAL
\002\101\173\054\233\323\026\200\062\231
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\101\173\054\233\323\026\200\062\231

# Certificate "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “SSL.com Root Certification Authority ECC”
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
# Certificate "SSL.com EV Root Certification Authority RSA R2"

# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\165\346\337\313\301\150\133\250
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
\003\314\175\206\202\230\032\200\224\007\121\327\377\222\235\014
\357\332\206\237\231\232\237\353\267\251\250\234\020\207\046\224\272\210
\267\277\203\323\335\217\214\207\251\250\045\235\162\235\303\342
\344\354\256\022\366\113\243\237\351\210\000\263\070\124\262
\375\267\203\233\302\236\217\210\207\242\043\337\233
\235\341\267\151\262\344\304\342\251\170\373\313\353\202\245\306
\103\206\302\214\145\207\050\030\002\303\202\262\235\005\276\145\355
\226\137\145\244\074\233\301\116\50\056\173\324\203\233\235\237\353\017\135
\307\155\201\072\260\173\314\073\341\257\002\057\042\254\106\312
\106\074\240\034\114\326\204\264\136\056\134\025\146\011\341\046
\50\376\206\122\002\226\204\043\363\131\251\125\341\137\114\141\223\155
\321\073\331\242\225\201\040\242\246\147\147\114\056\271\331\322\212
\101\263\146\013\132\237\233\175\043\245\362\032\260\377\336\233\203
\224\056\321\077\233\277\222\267\211\257\200\057\145\307\240\154\261
\315\142\222\032\033\334\045\216\064\274\157\167\261\1020
\303\267\005\032\230\003\256\257\164\142\111\207\167\222\151\200\141
\034\343\236\200\164\124\217\030\043\330\253\303\207\277\244\103
\165\206\123\030\172\012\056\011\034\046\237\222\137\50\202\212\042
\113\321\016\120\045\335\313\003\014\273\311\203\000\010\116\065
\115\212\213\355\360\002\224\146\054\104\177\313\225\047\226\027
\255\011\060\254\266\161\027\156\213\027\266\034\011\324\055\073
\230\245\161\323\124\023\331\140\363\365\113\146\117\372\361\356
\040\022\215\264\254\127\261\105\143\261\125\166\251\302\373
END
CKA_NSS MOZILLA CA POLICY CK BBOOL CK TRUE
CKA_NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE
CKA_NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

# Trust for "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
CKA_CLASS CK OBJECT CLASS CCKO NSS TRUST
CKA_TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERT SHA1 HASH MULTILINE OCTAL
1640723601122333\3200622403640112203\315324272251173
\174056304232
END
# Certificate "SSL.com EV Root Certification Authority ECC"

# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041

# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"

# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

# CKA_SUBJECT MULTILINE_OCTAL

# CKA_ISSUER MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\365\040\062\024\260\306\305\062\043\003\221\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\140\053\123\114\056\143\157\155\040\105\126\040\122\157\156\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\114\335\121\243\321\365\040\062\024\260\306\305\062\043\003\221\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\140\053\123\114\056\143\157\155\040\105\126\040\122\157\156\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
END

CKA_ISSUER MULTILINE_OCTAL
\060\017\006\003\125\035\023\001\001\377\004\005\060\003\001\001
\377\060\037\006\003\125\035\043\004\030\060\002\206\002\241\133\312
\136\345\336\322\120\252\315\250\055\144\121\266\331\162\233\227
\346\117\060\016\006\003\125\035\017\001\001\377\004\006\003\002
\001\206\060\012\006\010\005\206\110\316\075\004\003\002\003\150
\000\006\014\005\002\061\000\212\346\100\026\200\24\133\312
\136\153\044\363\260\075\207\106\130\032\354\261\337\157\373
\126\272\160\153\307\070\314\350\261\214\171\017\367\361\147\166
\016\203\320\036\121\217\002\060\075\366\043\050\046\114\306\140
\207\223\046\233\262\065\036\272\326\367\074\321\034\316\372\045
\074\246\032\201\025\134\356\145\212\131\207\250
\371\007\340\142\232\214\134\112
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Certificate "GlobalSign Root CA - R6"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After: Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\060\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156\040\122\157\151\147\156\040\122\157\151\147\156\040\103\101\040
\055\040\122\060\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151\147\156
\100\040\03\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\060\114\061\040\060\036\060\003\125\004\013\023\027\107\154\157\142\141\154\123\151\147\156\040\122\157\151\147\156\040\122\157\151\147\156\040\103\101\040
\055\040\122\060\061\023\060\021\006\003\125\004\012\023\012\107\154\157\142\141\154\123\151\147\156
\100\040\03\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Open Source Used In Data Center Network Manager 11.5(1) 33194
END
CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign, O=GlobalSign, OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign, O=GlobalSign, OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Certificate "OISTE WISeKey Global Root GC CA"

# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# Trust for "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\021\204\136\064\336\276\210\201\271\234\366\026\046\321\226
\037\303\271\061

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\132\271\055\057\223\144\370\245\151\132\221\351\150\007\043

END

CKA_ISSUER MULTILINE_OCTAL
\060\155\061\103\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\106\104\020\020\040\060\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\11\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
# Certificate "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\157\142\141\154\040\122\157\164\040\107\103\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055
\072\352
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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Open Source Used In Data Center Network Manager 11.5(1) 33200
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R1"
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\341\311\120\346\357\042\370\114\126\105\162\213\222\040\140\327\325\247\243\350
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\202\032\357\324\322\112\040\006\003\125\004\023\002\125\123\061\124\162\165\163\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122\061
END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\004\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\107\251\305\131\107\014\015\354\063\320\211\271\034\364\341
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GTS Root R2"
#
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
Open Source Used In Data Center Network Manager 11.5(1) 33204
# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\322\163\226\052\052\136\071\237\163\077\341\307\036\144\077\003\070\064\374\115

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\104\355\232\162\244\011\073\000\362\256\114\243\306\141\260\213

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\060\003\125\004\012\230\011\077\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\107\251\306\132\263\347\040\305\060\232\077\150\122
\362\157

END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GTS Root R3"
#
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\000\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\030\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\000\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\030\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\017\025\037\154\251\163\044\100\211\017\003\125\335
\125\035
END
CKA_VALUE MULTILINE_OCTAL
\060\020\002\014\060\022\001\122\124\000\03\002\001\002\002\020\156
\107\251\307\154\251\163\044\100\211\017\003\125\335\215\035\060
\012\006\010\052\206\110\316\075\004\003\003\060\107\061\013\060
\011\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\030\061\024

Open Source Used in Data Center Network Manager 11.5(1)  33207
# Trust for "GTS Root R3"

# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US


# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US

# Not Valid Before: Wed Jun 22 00:00:00 2016

# Not Valid After: Sun Jun 22 00:00:00 2036

# Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END


# Certificate "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\032\130\106\345\033\171\133\153\004\122\234\135\307\164\063\033\045\232\371\045
END

Open Source Used In Data Center Network Manager 11.5(1) 33209
# Trust for "GTS Root R4"

# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\052\035\140\047\331\112\261\012\034\115\221\134\315\063\240\313
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\135\266\152\304\140\027\044\152\032\231\250\113\356\136\264\046
END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\101\306\001\100\06\03\125\004\006\23\023\125\123\061
\042\060\040\000\03\125\004\123\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\03\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\156\107\251\310\213\224\266\350\273\073\052\330\242\262
\301\231
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "UCA Global G2 Root"

# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):
# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\371\170\026\031\172\377\030\045\030\252\104\376\301\240\316\134\266\114\212
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\376\360\034\12\360\134\14\21\237\134\24\12\23\170\251\12\370
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\12\5\004\006\023\002\103\116\061\021\060\017\006\003\12\5\004\012\014\010\12\5\15\112\4\16\156\163\14\6\013\06\003\12\5\004\003\014\022\12\5\103\101\040\107\154\157\142\14\154\040\107\062\040\12\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\133\12\243\355\135\276\132\14\040\145\003\220\357
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "UCA Extended Validation Root"
#
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\130\060\011\006\003\125\000\004\006\023\002\103\116\061
\021\060\017\006\003\125\000\004\012\014\010\125\156\151\124\162\165
\163\164\045\060\043\000\003\125\000\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\130\060\011\006\003\125\000\004\006\023\002\103\116\061
\021\060\017\006\003\125\000\004\012\014\010\125\156\151\124\162\165
\163\164\046\060\043\003\003\125\000\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\106\117\322\053\127\365\144\310\063\236\117\064\130\146\043
\160\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\000\05\132\060\202\003\102\240\003\002\001\002\002\201\117
\322\053\127\365\144\310\063\236\117\064\130\146\043\160\140
\015\006\01\105\220\061\10\206\367\015\001\100\13\005\000\060\0107
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\02\1060
\017\006\003\125\004\012\014\101\012\156\151\124\162\165\163\164

Open Source Used In Data Center Network Manager 11.5(1) 33215
# Trust for "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377
\335\360\327\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\363\137\103\306\064\233\332\277\214\176\005\123\255\226\342
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\130\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\130\146\043
\160\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certigna Root CA"
#
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\060\013\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060

Open Source Used In Data Center Network Manager 11.5(1) 33218
```c
#define CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
#define CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
#define CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\015\122\024\377\236\255\031\044\001\164\040\107\156\154\205
\047\047\365\103
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
```
# Certificate "emSign Root CA - G1"

# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END

CKA_ISSUER MULTILINE_OCTAL
\060\132\060\013\060\001\11\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\003\125\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\060\02\04\06\07\06\06\06\06\06\06\06\06\06\06\06\06\06\06
\060\060\013\010\060\02\00\06\003\125\004\003\014\020\013\145\162\164
\151\147\156\141\040\122\157\157\164\040\013\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\312\351\033\211\361\125\003\015\243\346\101\155\304
\343\246\341
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1, O=eMudhra Technologies Limited, OU=emSign PKI, C=IN
# Subject: CN=emSign Root CA - G1, O=eMudhra Technologies Limited, OU=emSign PKI, C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
# Certificate "emSign ECC Root CA - G3"

# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:9a:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_ID UTF8 "0"

Open Source Used In Data Center Network Manager 11.5(1) 33225
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:fe:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\103\372\117\362\127\334\240\303\200\356\056\130\352\170\262
\077\346\273\301

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\316\013\162\321\237\210\216\320\120\003\350\343\270\013\147\100

CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\230\121\145\155\123\151\147\156
\040\120\131\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\2\13\204

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\126\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\060\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\104\005\055\040\103\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\126\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\060\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\104\005\055\040\103\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\170\000\272\034\171\062\037\103\262

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\163\060\020\002\133\240\003\002\000\001\000\002\002\013\000
\256\170\000\027\232\034\171\062\037\103\262
\110\206\367\150\001\001\013\005\000\006\012\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\023\060\021\006\003\125\004
\013\023\012\145\155\123\151\147\156\040\120\113\111\061\024\060
\220\006\003\125\004\012\023\013\145\151\156\144\150\162\141\040
\111\156\143\061\034\060\032\006\003\125\004\003\023\023\145\155
\123\151\147\156\040\122\157\157\164
\061\016\060\036\027\015\061\070\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\126\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\123\026\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013
\145\151\165\144\150\162\141\040\111\156\143\061\034\060\032\006
\003\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\164\040\103\101\104\005\055\040\103\061\060\020\001\042\060\015\006
\011\052\206\110\206\037\150\001\001\000\005\000\003\020\020\010\17
# Trust for "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Certificate "emSign ECC Root CA - C3"

# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\140\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\140\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\127\161\266\202\201\270\022\174\234\250
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\053\060\202\001\261\240\003\002\001\002\002\012\173
\161\126\202\012\260\270\022\174\234\250\060\012\006\010\052\206\110
\316\075\004\003\003\060\132\061\103\130\060\011\006\003\125\004\006
\023\002\125\123\061\023\060\021\006\003\125\004\013\023\012\145
\155\123\151\147\156\040\120\113\111\061\102\040\060\022\006\003\125
\004\012\023\013\145\115\165\144\150\162\141\040\111\156\143\061
\040\060\036\060\003\125\004\003\023\027\145\155\123\151\147\156
\040\105\103\103\040\122\157\157\164\040\103\101\040\055\040\103
\063\060\036\027\015\060\107\060\062\061\070\061\070\063\060\060
\060\132\027\015\064\063\060\062\061\070\061\070\063\060\060\060
\132\060\132\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147
\156\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013
\145\151\165\144\150\162\141\040\111\156\143\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\102\157\157\164\040\103\101\040\055\040\103\063\060\166\060
\020\006\000\070\52\206\110\316\075\020\006\005\053\020\014\000
\042\003\142\000\004\375\245\141\125\163\173\046\020\035\351\267\042
\060\025\060\063\364\201\263\261\102\161\122\255\071\274\323\122\343\257
\257\371\362\362\227\065\222\066\106\016\207\225\215\271\071\112\323\351
\273\337\320\376\010\071\101\074\273\125\157\203\243\152\373\142
\260\201\121\110\021\160\175\110\305\112\343\351\042\124\042\115\223
\273\312\014\252\167\234\043\246\175\327\141\021\136\145\307\370
\177\376\365\362\251\124\102\060\100\060\035\006\003\125\035\016
\004\026\004\024\373\132\110\320\200\040\100\136\250\351\000\007
\151\031\167\247\346\303\364\317\060\016\006\003\125\035\017\001
\001\177\004\004\003\002\001\006\006\017\006\003\125\035\023\001
\001\177\004\005\006\000\003\001\001\137\060\012\006\010\052\206\110
\316\075\004\003\003\003\150\000\060\145\002\061\000\264\330\057
\002\211\375\266\114\142\272\103\116\023\204\162\265\256\335\034
\336\326\265\334\126\217\130\011\123\055\336\040\114\042\203\312
\223\250\176\356\022\100\030\73\262\071\117\370\337\205\002\260\034
\024\144\344\174\226\203\021\234\260\321\132\141\113\246\017\111
\323\000\347\213\344\344\245\377\177\255\327\060\320\307\167\177
\276\201\007\125\060\120\040\024\365\127\070\012\250\061\121
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\266\257\103\132\061\021\006\033\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\042\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\157\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\123\263\243\201\135\032\070\032\23\260\035\027\222\365\325
END

CKA_ISSUER_MULTILINE_OCTAL
\106\132\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\042\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\003\023\027\145\155\123\151\147\157\156\040\105\103\103\040
\122\157\157\164\040\103\101\040\055\040\103\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\173\161\266\202\126\270\022\174\234\250
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "Hongkong Post Root CA 3"

# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Serial Number: 08:16:5f:8a:4c:aa:5e:00:c9:93:40:df:64:ae:23:b8:1c:5a:a4
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\011\100\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\001\111\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\001\111\157
\156\147\040\111\157\156\147\061\026\060\024\006\003\125\004\012
\023\151\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\010\026\137\212\114\245\354\000\311\223\100\337\034\036
\256\043\270\034\132\244
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\170\060\020\003\267\240\003\002\001\002\002\024\010
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After: Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):

CKA_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"

# Certificate "Entrust Root Certification Authority - G4"
#
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:9:39:0:f0:00:00:00:00:55:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid After : Sun Dec 27 11:41 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\026\060\024\060\031\060\023\006\003\125\004\012\023\015\010\156\164\162\165
\163\164\054\040\011\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\060\071\060\067\006\003\125\004\013\023\060\060\045\130\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\000\003\125\004\030\23\051\105\156\141\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\0107
\064
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\026\060\024\060\031\060\023\006\003\125\004\012\023\015\010\156\164\162\165
\163\164\054\040\011\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\060\045\130\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\000\003\125\004\030\23\051\105\156\141\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\0107
\064
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\033\125\103\177\257\251\071\017\000\000\000\000\000\0125
\145\255\130
END
# Trust for "Entrust Root Certification Authority - G4"
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:a9:9e:39:0f:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\224\056\207\266\347\246\022\305\165\173\244
\344\136\206\371\066\224\337\167\303\351\105\300\071\361\171\273
\106\216\253\103\131\047\267\040\273\043\351\126\100\041\135\4061
\075\145\252\103\362\075\337\160\104\341\272\115\046\020\073\230
\237\63\33\102\163\030\126\041\152\121\123\323\221\132\106\332
\211\126\075\123\203\054\010\037\213\217\123\335\377\254\037
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\224\056\207\266\347\246\022\305\165\173\244
\344\136\206\371\066\224\337\167\303\351\105\300\071\361\171\273
\106\216\253\103\131\047\267\040\273\043\351\126\100\041\135\4061
\075\145\252\103\362\075\337\160\104\341\272\115\046\020\073\230
\237\63\33\102\163\030\126\041\152\121\123\323\221\132\106\332
\211\126\075\123\203\054\010\037\213\217\123\335\377\254\037
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Found in path(s):
* /opt/cola/permits/1254327621_1654022825.3396451/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-archive-ZaGdEd2z/certdata.txt
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  $Revision: 1345 $
  $Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) $
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* $Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $
* */

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLocationPath.java
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/*/  
* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
* 
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* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
* */

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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* *
* $Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/BaseXPath.java
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* $Revision: 1366 $
* $Date: 2012-05-05 12:17:35 -0400 (Sat, 05 May 2012) $
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* $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
* /

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultFunctionCallExpr.java
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$Id: JaxenException.java 1161 2006-06-03 20:36:00Z elharo $

Found in path(s):
/opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenException.java
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 * $Revision: 1337 $
 * $Date: 2008-12-02 17:58:10 -0800 (Tue, 02 Dec 2008) $ 
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 * $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $ 
 */
Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathFactory.java

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* $Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
  jar/org/jaxen/saxpath/base/XPathReader.java
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* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Predicate.java

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* $Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/iter/IterableNamespaceAxis.java
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$Id: Function.java 1128 2006-02-05 21:49:04Z elharo $

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$Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo $

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jar/org/jaxen/expr/DefaultTextNodeStep.java

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* $Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/Navigator.java
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* $Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $
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/*
$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $
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* $Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo $
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* "$Id: Step.java 1268 2006-12-10 15:32:14Z elharo $"
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java
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* $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) $
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$Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo $

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* $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/PositionFunction.java

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* $Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo $
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* $Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo $
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$Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
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 * *
 * $Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
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 * $Revision: 1128 $
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* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
*/

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* $Revision: 1335 $
* $Date: 2008-11-30 06:20:38 -0800 (Sun, 30 Nov 2008) $
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* $Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/xom/XOMXPath.java

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* $Revision: 1128 $
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* $Id: DefaultLogicalExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLogicalExpr.java

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* $Revision: 1222 $
* $Date: 2006-11-08 05:59:38 -0800 (Wed, 08 Nov 2006) $
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$IID: DefaultAbsoluteLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultStep.java
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/*
$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $
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* $Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo $
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$Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo $

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* $Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/PrecedingAxisIterator.java

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* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
* /

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* $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
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* $Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultXPathFactory.java

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* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: IterableFollowingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
* jar/org/jaxen/expr/iter/IterableFollowingAxis.java
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* $Revision: 1128 $
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*                                                                                           *
* $Id: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo $                                *
*/

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* * $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
* */

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 * $Id$
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$Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo $ 
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* $Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo $
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* *
* $Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableSelfAxis.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: Token.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Token.java
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 * $Revision: 1234 $
 * $Date: 2006-11-08 08:47:30 -0800 (Wed, 08 Nov 2006) $
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* $Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LiteralExpr.java
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/ * $Header$
* $Revision: 1306 $
* $Date: 2007-05-02 08:04:46 -0700 (Wed, 02 May 2007) $
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* $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathExpr.java
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  * $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
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$Revision: 1162 $
$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $

$Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo$

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/opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/UnresolvableException.java

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* $Id: IterablePrecedingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterablePrecedingAxis.java
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* $Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo $
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* $Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
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$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo $

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* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/VariableReferenceExpr.java
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* $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
* /

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* /opt/cola/permits/100966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/RoundFunction.java
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* $Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1.1.6-sources-jar/org/jaxen/XPathSyntaxException.java
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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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 * $Header$
 * $Revision: 1193 $
 * $Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) $
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* $Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
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* $Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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  jar/org/jaxen/expr/iter/IterableDescendantAxis.java
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* $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
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  * $Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $
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* $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $
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 * $Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo $
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 * $Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo $
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*
* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/StartsWithFunction.java

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* $Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo $
* /

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathReader.java
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 * $Header$
 * $Revision: 1257 $
 * $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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* $Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

Found in path(s):

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
* jar/org/jaxen/util/PrecedingSiblingAxisIterator.java
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$/Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo $

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$Revision: 1161 $
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* $Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo $ */

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/javabean/JavaBeanXPath.java
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  * $Id: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
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$Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo $

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$Id: Context.java 1219 2006-10-15 21:08:16Z elharo $

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* $Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo $
* /

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  * $Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
  */

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  jar/org/jaxen/expr/Iter/IterableFollowingSiblingAxis.java
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 * $Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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*
* $Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/UnsupportedAxisException.java
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$Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $

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jar/org/jaxen/function/ext/EndsWithFunction.java
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* $Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/SimpleVariableContext.java
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 * $Header$
 * $Revision: 1198 $
 * $Date: 2006-09-21 04:48:05 -0700 (Thu, 21 Sep 2006) $
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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/DocumentNavigator.java
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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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$Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo $

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/SubstringFunction.java

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 * $Header$
 * $Revision: 1252 $
 * $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/EqualityExpr.java
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* $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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* $Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo $
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  jar/org/jaxen/dom4j/DocumentNavigator.java
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* $Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* $Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $
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$Id: DefaultFilterExpr.java 1261 2006-11-30 18:49:27Z elharo $
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/*
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* $Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $ 
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 * $Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo $
Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
  jar/org/jaxen/function/LocalNameFunction.java
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 * $Revision: 1261 $
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplyExpr.java
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* $Revision: 1258 $
* $Date: 2006-11-13 14:38:17 -0800 (Mon, 13 Nov 2006) $
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* $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
*/

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* $Id: $
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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenRuntimeException.java
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenConstants.java

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* $Revision: 1128 $
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* $Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo$
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
* jar/org/jaxen/function/xslt/DocumentFunction.java
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$Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo $
/

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$Header$
$Revision: 1324 $
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* $Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $ */

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/StringLengthFunction.java
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  * $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $

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   * $Revision: 1168 $
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* $Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo $
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$/Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo$

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$Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo $

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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
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* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/DocumentNavigator.java
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* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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  * $Id: TokenTypes.java 1334 2008-11-29 17:58:48Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/TokenTypes.java
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 * $Revision: 1128 $
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* $Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathLexer.java
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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
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* $Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $*

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$Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
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* $Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
* /

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/DescendantAxisIterator.java

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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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*$Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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* $Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/100970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/primitives/UnsignedInts.java
jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/Count.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMultiset.java

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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collection/Interners.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collection/EnumMultiset.java
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/*
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/cache/RemovalNotification.java

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 * which contained the following notice:
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*/
jar/jersey/repackaged/com/google/common/hash/HashCodes.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/hash/AbstractStreamingHashFunction.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/Queues.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/hash/Funnel.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/Murmur3_32HashFunction.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/DescendingImmutableSortedMultiset.java
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/* This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/util/concurrent/AtomicDoubleArray.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/base/Strings.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/util/concurrent/Atomics.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/util/concurrent/ForwardingBlockingQueue.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/ForwardingSortedSetMultimap.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/AbstractSequentialIterator.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/net/package-info.java
* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collect/DiscreteDomains.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources.jar/jersey/repackaged/com/google/common/collect/ForwardingQueue.java
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* /opt/cola/permits/1000970039_1646171610.03/0/jersey-guava-2-12-sources-jar/jersey/repackaged/com/google/common/collection/MapMakerInternalMap.java
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* 
* As of 2010/06/11, this method is identical to the (package private) hash
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* /

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* /opt/cola/permits/1006880940_1646171710.12/0/spring-tx-5-1-9-release-sources-jar/org/springframework/transaction/TransactionUsageException.java
* /opt/cola/permits/1006880940_1646171710.12/0/spring-tx-5-1-9-release-sources-jar/org/springframework/transaction/IllegalTransactionStateException.java
* /opt/cola/permits/1006880940_1646171710.12/0/spring-tx-5-1-9-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java
* /opt/cola/permits/1006880940_1646171710.12/0/spring-tx-5-1-9-release-sources-jar/org/springframework/dao/TransientDataAccessResourceException.java
* /opt/cola/permits/1006880940_1646171710.12/0/spring-tx-5-1-9-release-sources-jar/org/springframework/transaction/CannotCreateTransactionException.java
1.2840 grpc 1.4.1

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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  gz/third_party/boringssl/include/openssl/asn1.h
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*/
/** Signal that the call is cacheable. GRPC is free to use GET verb */

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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/* deflate.c -- compress data using the deflation algorithm
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   gz/src/core/lib/surface/completion_queue.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
   gz/src/core/lib/surface/server.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
   gz/src/core/lib/surface/completion_queue.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
   gz/src/core/lib/surface/server.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
   gz/include/grpc/grpc.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
   gz/include/grpc/census.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
   gz/src/core/lib/iomgr/ev_poll_posix.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
   gz/src/core/lib/json/json_reader.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
   gz/src/core/lib/security/credentials/composite/composite_credentials.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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/* Authenticated Encryption with Additional Data. */

* AEAD couples confidentiality and integrity in a single primitive. AEAD
* algorithms take a key and then can seal and open individual messages. Each
* message has a unique, per-message nonce and, optionally, additional data
* which is authenticated but not included in the ciphertext.
* *
* The |EVP_AEAD_CTX_init| function initialises an |EVP_AEAD_CTX| structure and
* performs any precomputation needed to use |aead| with |key|. The length of
* the key, |key_len|, is given in bytes.
* *
* The |tag_len| argument contains the length of the tags, in bytes, and allows
* for the processing of truncated authenticators. A zero value indicates that
* the default tag length should be used and this is defined as
* [EVP_AEAD_DEFAULT_TAG_LENGTH] in order to make the code clear. Using
* truncated tags increases an attacker's chance of creating a valid forgery.
* Be aware that the attacker's chance may increase more than exponentially as
* would naively be expected.

* When no longer needed, the initialised [EVP_AEAD_CTX] structure must be
* passed to [EVP_AEAD_CTX_cleanup], which will deallocate any memory used.

* With an [EVP_AEAD_CTX] in hand, one can seal and open messages. These
* operations are intended to meet the standard notions of privacy and
* authenticity for authenticated encryption. For formal definitions see
* Bellare and Namprempre, "Authenticated encryption: relations among notions
* and analysis of the generic composition paradigm," Lecture Notes in Computer
* Science B<1976> (2000), 531–545,

* When sealing messages, a nonce must be given. The length of the nonce is
* fixed by the AEAD in use and is returned by [EVP_AEAD_nonce_length]. *The
* nonce must be unique for all messages with the same key*. This is critically
* important - nonce reuse may completely undermine the security of the AEAD.
* Nonces may be predictable and public, so long as they are unique. Uniqueness
* may be achieved with a simple counter or, if large enough, may be generated
* randomly. The nonce must be passed into the "open" operation by the receiver
* so must either be implicit (e.g. a counter), or must be transmitted along
* with the sealed message.

* The "seal" and "open" operations are atomic - an entire message must be
* encrypted or decrypted in a single call. Large messages may have to be split
* up in order to accomodate this. When doing so, be mindful of the need not to
* repeat nonces and the possibility that an attacker could duplicate, reorder
* or drop message chunks. For example, using a single key for a given (large)
* message and sealing chunks with nonces counting from zero would be secure as
* long as the number of chunks was securely transmitted. (Otherwise an
* attacker could truncate the message by dropping chunks from the end.)

* The number of chunks could be transmitted by prefixing it to the plaintext,
* for example. This also assumes that no other message would ever use the same
* key otherwise the rule that nonces must be unique for a given key would be
* violated.

* The "seal" and "open" operations also permit additional data to be
* authenticated via the [ad] parameter. This data is not included in the
* ciphertext and must be identical for both the "seal" and "open" call. This
* permits implicit context to be authenticated but may be empty if not needed.

* The "seal" and "open" operations may work in-place if the [out] and [in]
arguments are equal. Otherwise, if |out| and |in| alias, input data may be
overwritten before it is read. This situation will cause an error.

The "seal" and "open" operations return one on success and zero on error. */

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/* A 64-bit implementation of the NIST P-224 elliptic curve point multiplication *

* Inspired by Daniel J. Bernstein's public domain nistp224 implementation
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/* Post-quantum key agreement, based upon the reference implementation. Note: this implementation does not interoperate with the reference implementation! */

* Source: https://github.com/tpoeppelmann/newhope
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/err.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/bn/montgomery.c

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/ext/census/resource.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/ext/census/placeholders.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/ext/census/resource.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/ext/filters/client_channel/parse_address.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/lib/security/credentials/plugin/plugin_credentials.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/lib/support/wrap_memcpy.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/lib/iomgr/timer_uv.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/lib/iomgr/unix_sockets_posix.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/lib/iomgr/combiner.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/lib/iomgr/pollset_uv.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/lib/iomgr/combiner.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/ext/filters/client_channel/lb_policy/grpclb/load_balancer_api.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/ext/filters/client_channel/lb_policy/grpclb/load_balancer_api.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/ext/filters/client_channel/lb_policy/grpclb/load_balancer_api_posix.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
include/grpc/impl/codegen/compression_types.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/src/core/ext/census/trace_string.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
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* [DTLS_method] except they also call [SSL_CTX_set_min_proto_version] and
* [SSL_CTX_set_max_proto_version] to lock connections to that protocol
* version. */

/* key_exchange_info contains an indication of the size of the asymmetric
* primitive used in the handshake that created this session. In the event
* that two asymmetric operations are used, this value applies to the one
* that controls the confidentiality of the connection. Its interpretation
* depends on the primitive that was used; as specified by the cipher suite:
* DHE: the size, in bits, of the multiplicative group.
* ECDHE: the TLS id for the curve.
* 
* A zero indicates that the value is unknown. */

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/* CRYPTO_is_confidential_build returns one if the linked version of BoringSSL
* has been built with the BORINGSSL_CONFIDENTIAL define and zero otherwise.
* This is used by some consumers to identify whether they are using an
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/include/openssl/crypto.h
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gz/third_party/boringssl/crypto/pem/pem_xaux.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/time_support.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/include_openssl/time_support.h
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/pem/pem_x509.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509/x509cset.c

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  z/third_party/boringssl/crypto/x509v3/v3_akeya.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/v3_bcons.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/v3_bitst.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/v3_akey.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/pkcs8/p5_pbev2.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/v3_extku.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/v3_enum.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/v3_pku.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/v3_trs.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/x509a.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/v3_pmc.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/pkcs8/internal.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/pkcs8/pkcs8.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/include/openssl/pkcs8.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/v3_skuy.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/x509v3/x509spki.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
  z/third_party/boringssl/crypto/pkcs8/p5_pbe.c

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gz/third_party/boringssl/crypto/x509v3/ext_dat.h
* /opt/ws-local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* The field functions are shared by Ed25519 and X25519 where possible. */

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/curve25519/x25519-x86_64.c
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 */

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/cares/cares/ares_data.c
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/lib/transport/service_config.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/lib/slice/slice_hash_table.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/lib/transport/service_config.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/ext/filters/message_size/message_size_filter.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/ext/filters/workarounds/workaround_cronet_compression_filter.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/ext/filters/max_age/max_age_filter.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/ext/filters/workarounds/workaround_utils.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/ext/filters/deadline/deadline_filter.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/ext/filters/client_channel/subchannel_index.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/ext/filters/workarounds/workaround_utils.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/ext/filters/workarounds/workaround_cronet_compression_filter.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1.4.1-gem/data-tar-gz/src/core/ext/filters/deadline/deadline_filter.c

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/ssl/tls_record.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/pem/pem_all.c

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/refcount_c11.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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gz/third_party/boringssl/crypto/ed25519/internal.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/include/openssl/buffer.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/include/openssl/srtp.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ
gz/third_party/boringssl/ssl/ssl_aead_ctx.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ
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 * CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/v3_info.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/v3_ia5.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/v3_lib.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/x509v3/v3_sxnet.c

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/* uncompr.c -- decompress a memory buffer
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/ec/internal.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/ec/ec_key.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/ec/wnaf.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/ec.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/ec_key.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/ec/ec.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/ec/oct.c
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 *
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/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/bn/convert.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/obj/obj.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/asn1/tasn_new.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/hmac/hmac.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/asn1/tasn_fre.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/cipher/e_des.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/x509/x_attrib.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/asn1/a_utf8.c
/opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/rsa/rsa.c

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gz/third_party/boringssl/crypto/asn1/f_int.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar

gz/third_party/boringssl/crypto/x509/x_sig.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar

gz/third_party/boringssl/crypto/cipher/e_rc2.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar

gz/third_party/boringssl/crypto/x509/x509.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar

gz/third_party/boringssl/crypto/x509/x_info.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar

gz/third_party/boringssl/crypto/pem/pem_pkey.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar

gz/third_party/boringssl/crypto/bn/add.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar

gz/third_party/boringssl/crypto/bio/fd.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar

gz/third_party/boringssl/include/openssl/blowfish.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar

gz/third_party/boringssl/ssl/tls_method.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar

gz/third_party/boringssl/crypto/x509/x509_vfy.c
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/modes/ctr.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/modes/ofb.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/modes/cfb.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/modes/cbc.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/modes/gcm.c

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/newhope/precomp.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/newhope/ntt.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/cpu-aarch64-linux.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/x509/internal.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/crypto/bytestring/asn1_compat.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/ssl/tls13_server.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targz/third_party/boringssl/ssl/tls13_client.c
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/bn/rsaz_exp.h
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/x509v3/v3_crl.c

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/cares/cares/ares_expand_name.c
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/ext/census/gen/trace_context.pb.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/iomgr/ev_epoll1_linux.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/iomgr/tcp_server_utils_posix.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/iomgr/timer_manager.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/ext/filters/client_channel/lb_policy/grpclb/grpclb_channel_secure.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/iomgr/ev_epoll1_linux.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/iomgr/is_epollexclusive_available.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/support/atomic_with_std.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/iomgr/lockfree_event.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/tsi/transport_security_adapter.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/ext/census/intrusive_hash_map_internal.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/ext/filters/http/http_filters_plugin.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/iomgr/lockfree_event.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/tsi/transport_security_adapter.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/ext/filters/max_age/max_age_filter.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/ext/filters/client_channel/proxy_mapper.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/support/memory.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/ext/filters/client_channel/lib_policy/grpclb/grpclb_channel_secure.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/iomgr/lockfree_event_pool_posix.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/iomgr/timer_manager.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/iomgr/ev_epoll_thread_pool_linux.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/ext/filters/client_channel/lib_policy/grpclb/client_load_reporting_filter.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/src/core/lib/support/atm.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar
    gz/include/grpc/load_reporting.h
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/pkcs12.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/crypto.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/chacha.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/rand/urandom.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/cipher/aead.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/hkdf.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/poly1305/poly1305_vec.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/objects.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/cipher/e_tls.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/engine.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/bytestring.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/poly1305.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/rand.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/rand/windows.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/opensslv.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/cipher/e_ssl3.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/x509/pkcs7.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/ossyltyp.h
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/bio/socket_helper.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/include/openssl/opensslconf.h

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-target third_party/boringssl/crypto/bytestring/cbs.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-target third_party/boringssl/crypto/bytestring/cbb.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-target third_party/boringssl/crypto/rand/rand.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-target third_party/boringssl/crypto/hkdf/hkdf.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-target third_party/boringssl/crypto/cpu-arm.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-target third_party/boringssl/crypto/ber.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-target third_party/boringssl/crypto/engine/engine.c

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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-gz/third_party/boringssl/crypto/pem/pem_info.c
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gz/third_party/boringssl/ssl/d1_srtp.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/cares/cares/ares_destroy.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/cares/cares/ares_library_init.h

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  gz/third_party/boringssl/crypto/ec/p256-x86_64-table.h
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  gz/src/ruby/bin/apis/pubsub_demo.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
  gz/src/ruby/lib/grpc/generic/bidi_call.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
  gz/src/ruby/pb/test/client.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
  gz/src/ruby/bin/math_services_pb.rb
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  gz/src/ruby/spec/generic/service.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
  gz/src/ruby/lib/grpc/generic/service_spec.rb
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
gz/third_party/cares/cares/ares_parse_txt_reply.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-targ-
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* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/aes/aes.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
gz/third_party/boringssl/crypto/aes/mode_wrappers.c
* /opt/ws_local/PERMITS_SQL/1085830933_1599146752.66/0/grpc-1-4-1-gem/data-tar-
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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* /opt/cola/permits/1003070017_1646171659.36/0/azure-storage-6-1-0-sources-jar/com/microsoft/azure/storage/SubStreamGenerator.java
* /opt/cola/permits/1003070017_1646171659.36/0/azure-storage-6-1-0-sources-jar/com/microsoft/azure/storage/blob/BlobContainerProperties.java
* /opt/cola/permits/1003070017_1646171659.36/0/azure-storage-6-1-0-sources-jar/com/microsoft/azure/storage/blob/ContainerListHandler.java
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* /opt/cola/permits/1003070017_1646171659.36/0/azure-storage-6-1-0-sources-jar/com/microsoft/azure/storage/ErrorReceivingResponseEvent.java
* /opt/cola/permits/1003070017_1646171659.36/0/azure-storage-6-1-0-sources-jar/com/microsoft/azure/storage/SharedAccessPolicySerializer.java
* /opt/cola/permits/1003070017_1646171659.36/0/azure-storage-6-1-0-sources-jar/com/microsoft/azure/storage/blob/BlobContainerPublicAccessType.java
* /opt/cola/permits/1003070017_1646171659.36/0/azure-storage-6-1-0-sources-jar/com/microsoft/azure/storage/blob/StandardBlobTier.java
* /opt/cola/permits/1003070017_1646171659.36/0/azure-storage-6-1-0-sources-jar/com/microsoft/azure/storage/StorageCredentialsAnonymous.java

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* /opt/cola/permits/1003070017_1646171659.36/0/azure-storage-6-1-0-sources-jar/com/microsoft/azure/storage/BaseEvent.java
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1.2848 netty-codec 4.1.43.Final

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  jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/ProtocolDetectionResult.java

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  jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/MessageAggregator.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/serialization/ClassResolver.java
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  jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
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  jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
  jar/io/netty/handler/codec/compression/ZlibWrapper.java
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  jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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 */

/**
 * Enumeration of supported Base64 dialects.
 * <p>
 * The internal lookup tables in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
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 * /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
   jar/io/netty/handler/codec/base64/Base64Dialect.java
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   jar/io/netty/handler/codec/compression/CompressionUtil.java
 * /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
   jar/io/netty/handler/codec/DatagramPacketEncoder.java
 * /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
   jar/io/netty/handler/codec/LineSeparator.java
 * /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
   jar/io/netty/handler/codec/string/LineEncoder.java
 * /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
   jar/io/netty/handler/codec/CodecOutputList.java
 * /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
   jar/io/netty/handler/codec/BytesChecksum.java
 * /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
   jar/io/netty/handler/codec/CodecOutputList.java
 * /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
   jar/io/netty/handler/codec/CodecPacketDecoder.java
 * /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-
   jar/io/netty/handler/codec/DateFormatter.java
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A decoder that splits the received `ByteBuf`s dynamically by the
value of the length field in the message. It is particularly useful when you
decode a binary message which has an integer header field that represents the
length of the message body or the whole message.

The value of the length field in this example is `12 (0x0C)` which
represents the length of "HELLO, WORLD". By default, the decoder assumes
that the length field represents the number of the bytes that follows the
length field. Therefore, it can be decoded with the simplistic parameter
combination.

```java
lengthFieldOffset = 0
lengthFieldLength = 2
lengthAdjustment = 0
initialBytesToStrip = 0 (= do not strip header)
```

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

```
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
```

Because we can get the length of the content by calling
[@link ByteBuf#readableBytes()](http://www.apache.org/licenses/LICENSE-2.0), you might want to strip the length
field by specifying `initialBytesToStrip`. In this example, we
specified `2`, that is same with the length of the length field, to
strip the first two bytes.
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
  | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
  +--------+----------------+      +----------------+
* </pre>

* 2 bytes length field at offset 0, do not strip header, the length field
  * represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
  * only, as shown in the previous examples. However, in some protocols, the
  * length field represents the length of the whole message, including the
  * message header. In such a case, we specify a non-zero
  * <tt>lengthAdjustment</tt>. Because the length value in this example message
  * is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
  * as <tt>lengthAdjustment</tt> for compensation.

* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
  | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
  +--------+----------------+      +--------+----------------+
* </pre>

* 3 bytes length field at the end of 5 bytes header, do not strip header</h3>

* The following message is a simple variation of the first example. An extra
  * header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
  * again because the decoder always takes the length of the prepended data into
  * account during frame length calculation.

* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.
* 
* lengthFieldOffset = 0
* lengthFieldLength = 3
* `<b>lengthAdjustment</b>` = `<b>2</b>` (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra header affects the `<tt>lengthAdjustment</tt>` and the extra header after the length field. We also specified a non-zero `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.
* 
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* `<b>lengthAdjustment</b>` = `<b>1</b>` (= the length of HDR2)
* `<b>initialBytesToStrip</b>` = `<b>3</b>` (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
* +----------+----------+----------+----------------+      +----------+----------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------+----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into `<tt>lengthAdjustment</tt>`. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

```plaintext
lengthFieldOffset   =  1
lengthFieldLength   =  2
<tt>lengthAdjustment</tt> = <tt>-3</tt> (= the length of HDR1 + LEN, negative)
<tt>initialBytesToStrip</tt> = <tt>3</tt>

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
+-------+--------+-------+----------------+----->+-------+----------------+
| HDR1  | Length | HDR2  | Actual Content |    | HDR2  | Actual Content |
| 0xCA  | 0x0010 | 0xFE  | "HELLO, WORLD" |---->| 0xFE  | "HELLO, WORLD" |
+-------+--------+-------+----------------+----->+-------+----------------+
```

`@see LengthFieldPrepender`

*/
/*
/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4.1.43-final-sources-1-
  jar/io/netty/handler/codec/base64/Base64.java

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* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4.1.43-final-sources-1-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4.1.43-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-jar/io/netty/handler/codec/compression/Lz4Constants.java
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* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1063377366_1592971932.88/0/netty-codec-4-1-43-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
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* Used to annotate SPI provider contracts recognized by Jersey (in addition to the JAX-RS providers).
*
* All proprietary Jersey extension APIs are annotated with the {@link @Contract} annotation.
* <p>
* Similarly, any custom (i.e. not JAX-RS or Jersey) extension provider contract must be annotated with this
* annotation otherwise concrete service classes implementing the provider contract would not be recognized
* and treated as extension service provider by Jersey runtime.
* </p>
*
* @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
* @author Marek Potociar (marek.potociar at oracle.com)
*/

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jar/org/glassfish/jersey/spi/Contract.java

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  jar/org/glassfish/jersey/process/internal/Inflecting.java
  */opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/process/internal/package-info.java
  */opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/message/XmlHeader.java
  */opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/message/internal/GrammarUtil.java
  */opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/filter/package-info.java
  */opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/internal/inject/package-info.java
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  jar/org/glassfish/jersey/spi/package-info.java
  */opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/internal/util/collection/ClassTypePair.java

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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/internal/AbstractRuntimeDelegate.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/XmlJaxbElementProvider.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/MatchingEntityTag.java
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jar/org/glassfish/jersey/internal/util/collection/KeyComparatorLinkedHashMap.java
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
jar/org/glassfish/jersey/internal/util/collection/KeyComparator.java
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
jar/org/glassfish/jersey/message/internal/HttpHeaderReaderImpl.java
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jar/org/glassfish/jersey/message/internal/SourceProvider.java

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  jar/org/glassfish/jersey/internal/PropertiesDelegate.java
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  jar/org/glassfish/jersey/process/internal/AbstractChainableStage.java
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  jar/org/glassfish/jersey/spi/ContentEncoder.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
  jar/org/glassfish/jersey/model/ContractProvider.java
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  jar/org/glassfish/jersey/internal/util/collection/ImmutableMultivaluedMap.java
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-
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  jar/org/glassfish/jersey/internal/inject/ContextInjectionResolver.java
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jar/org/glassfish/jersey/model/internal/ComponentBag.java
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/internal/ExceptionMapperFactory.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/process/internal/Stages.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/CacheControlProvider.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/DateProvider.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/AbstractRootElementJaxbProvider.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/process/internal/RequestScoped.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/LinkProvider.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/internal/util/collection/KeyComparatorHashMap.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/StreamingOutputProvider.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/internal/ContextResolverFactory.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/uri/PatternWithGroups.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/RenderedImageProvider.java
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* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/HeaderUtils.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/MessageBodyFactory.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/ReaderProvider.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/CommittedOutputStream.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/I18n/Localizer.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/MediaTypeProvider.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/internal/ServiceFinder.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/internal/HeaderUtils.java
* /opt/cola/permits/1000969966_1654022919.547043/0/jersey-common-2-12-sources-jar/org/glassfish/jersey/message/MessageUtils.java
1.2853 commons-lang3 3.4

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A registry for service provider objects.

Service providers are looked up from the classpath, under the path

`META-INF/services/\{full-class-name\}`.

For example:


The file should contain a list of fully-qualified concrete class names,

one per line.

The `<em>full-class-name</em>` represents an interface or (typically) an

abstract class, and is the same class used as the category for this registry.

Note that only one instance of a concrete subclass may be registered with a

specific category at a time.

Implementation detail: This class is a clean room implementation of

a service registry and does not use the proprietary `{@code sun.misc.Service}`

class that is referred to in the `<em>JAR File specification</em>`.

This class should work on any Java platform.

`<a href="mailto:harald.kuhr@gmail.com">Harald Kuhr</a>`
* @version $Id: com/twelvemonkeys/util/service/ServiceRegistry.java#2 $  
* @see RegisterableService  
* @see <a href="http://java.sun.com/j2se/1.3/docs/guide/jar/jar.html#Service%20Provider">JAR File Specification</a>  
*/

Found in path(s):
* /opt/cola/permits/1000760692_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/service/ServiceRegistry.java

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* /opt/cola/permits/1000760692_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/package_info.java
* /opt/cola/permits/1000760692_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/NullMap.java
* /opt/cola/permits/1000760692_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/LinkedSet.java
* /opt/cola/permits/1000760692_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/StringTokenIterator.java
* /opt/cola/permits/1000760692_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/convert/ConversionException.java
* /opt/cola/permits/1000760692_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/package_info.java
* /opt/cola/permits/1000760692_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/service/ServiceConfigurationError.java
* /opt/cola/permits/1000760692_1646171562.79/0/common-lang-3-4-sources-jar/com/twelvemonkeys/util/WeakWeakMap.java
* /opt/cola/permits/1000760692_1646171562.79/0/common-lang-3-4-sources-
1.2854 gsm 1.0.13-11.el7

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1.2855 bcpg-jdk15on 1.61

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* /opt/cola/permits/1000876274_1646171594.64/0/bcpg-jdk15on-1-61-sources-jar/org/bouncycastle/apache/bzip2/CRC.java
* /opt/cola/permits/1000876274_1646171594.64/0/bcpg-jdk15on-1-61-sources-
1.2856 libffi 3.0.13 18.el7

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1.2857 pkg-config 0.27.1 4.el7

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* /opt/cola/permits/1151187849_1654022924.7246573/0/jersey-common-2-22-2-sources-3-
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* /opt/cola/permits/1151187849_1654022924.7246573/0/jersey-common-2-22-2-sources-3-jar/org/glassfish/jersey/internal/util/SaxHelper.java
* /opt/cola/permits/1151187849_1654022924.7246573/0/jersey-common-2-22-2-sources-3-jar/org/glassfish/jersey/message/DeflateEncoder.java
* /opt/cola/permits/1151187849_1654022924.7246573/0/jersey-common-2-22-2-sources-3-jar/org/glassfish/jersey/message/internal/OutboundMessageContext.java
* /opt/cola/permits/1151187849_1654022924.7246573/0/jersey-common-2-22-2-sources-3-jar/org/glassfish/jersey/model/internal/CommonConfig.java

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jar/org/glassfish/jersey/internal/inject/ReferencingFactory.java
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* */

* @author Miroslav Fuksa
* @author Marek Potociar (marek.potociar at oracle.com)
*/

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  jar/org/glassfish/jersey/uri/PathTemplate.java
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1.2865 libgnomekbd 3.26.0-3.el7

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jar/org/springframework/web/context/request/async/AsyncWebRequest.java
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* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/http/client/HttpComponentsAsyncClientHttpResponse.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/http/client/OkHttp3ClientHttpRequest.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/http/client/AbstractBufferingClientHttpRequest.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/multipart/support/RequestPartServletServerHttpRequest.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/bind/annotation/RestController.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptor.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/http/server/ServletServerHttpAsyncRequestControl.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/http/server/PathContainer.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/context/support/LiveBeansViewServlet.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/bind/ServletRequestUtils.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/context/support/HandlerMethodReturnValueHandler.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/multipart/MultipartException.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/method/annotation/SessionStatusMethodArgumentResolver.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/remoting/jaxws/JaxWsPortProxyFactoryBean.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/server/ServerWebInputException.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/http/client/support/InterceptingAsyncHttpAccessor.java
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* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/web/client/RestClientResponseException.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources.jar/org/springframework/http/converter/cbor/MappingJackson2CborHttpMessageConverter.java
Found in path(s):

* /opt/cola/permits/1110675629_1606843780.99/0/spring-web-5-1-6-release-sources-jar/org/springframework/web/bind/annotation/ResponseStatus.java
* /opt/cola/permits/1110675629_1606843780.99/0/spring-web-5-1-6-release-sources-jar/org/springframework/web/context/request/async/CallableProcessingInterceptor.java
* /opt/cola/permits/1110675629_1606843780.99/0/spring-web-5-1-6-release-sources-jar/org/springframework/http/client/AbstractAsyncClientHttpRequest.java
* /opt/cola/permits/1110675629_1606843780.99/0/spring-web-5-1-6-release-sources-jar/org/springframework/http/client/AsyncClientHttpRequestInterceptor.java
* /opt/cola/permits/1110675629_1606843780.99/0/spring-web-5-1-6-release-sources-jar/org/springframework/web/util/pattern/PathPatternParser.java
* /opt/cola/permits/1110675629_1606843780.99/0/spring-web-5-1-6-release-sources-jar/org/springframework/web/filter/ServletContextRequestLoggingFilter.java

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# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
#
# MIME type (lowercased)Extensions
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<td>application/activemessage</td>
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<td>application/alto-costmapfilter+json</td>
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# application/epp+xml
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application/exi
# application/fastinfoset
# application/fastsoap
# application/fdt+xml
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# application/font-sfnt
application/font-tdpfr
application/font-woff
# application/framework-attributes+xml
# application/geo+json
application/gml+xml
gml
application/gpx+xml
gpx
application/gxf
gxf
# application/gzip
# application/h224
# application/held+xml
# application/http
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# application/ibe-pkg-reply+xml
# application/ibe-pp-data
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# application/index.obj
# application/index.response
# application/index.vnd
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ink
inkml
# application/iotp
application/ipfix
# application/ipp
# application/isup
# application/fits+xml
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application/java-serialized-object
ser
application/java-vm
class
application/javascript
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# application/jose
# application/jose+json
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# application/json-seq
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# application/jwk+json
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# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword	doct soit
application/mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsml+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
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da
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* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources-jar/org/springframework/web/filter/RequestContextFilter.java
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* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources-
  jar/org/springframework/web/context/ConfigurableWebEnvironment.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources-
  jar/org/springframework/web/context/http/AbstractClientHttpResponse.java
* /opt/cola/permits/110675629_1606843780.99/0/spring-web-5-1-6-release-sources-
  jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
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  jar/org/springframework/web/context/ContextCleanupListener.java
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1.2870 jcmtturner-gokrb 8.4.2

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1.2876 icu 44

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## makefile
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files

GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code

SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options

LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<

%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<

%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$SHELL) -ec '$(GEN_DEPS.c) $< \
| sed \"s/\(.*\)/.o: \1; /g\" > $@; \
| -s $@ || rm -f $@’

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed "\"s/(\$*)\(.*\)\(.*\)\(.*\)/\1.o $@ : /g\" > $@; \n[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.S(SO).$(SO_TARGET_VERSION_MAJOR): %.S(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s {<F} $@
%.S(SO): %.S(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.S(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

1.2877 jaxen 1.1.1

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 */
* $Revision: 1.8 $
* $Date: 2006/03/30 13:56:36 $
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* $Id: Axis.java,v 1.8 2006/03/30 13:56:36 elharo Exp $
*/

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/saxpath/Axis.java
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  2006/02/05 21:47:41 elharo Exp $
* $Revision: 1.10 $
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* $Id: ContainsFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp$
*/

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/ContainsFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternHandler.java,v 1.8 2006/02/05
21:47:42 elharo Exp$
* $Revision: 1.8 $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultFilterExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/DefaultStep.java,v 1.21 2006/02/05
  21:47:40 elharo Exp $
* $Revision: 1.21 $
* $Date: 2006/02/05 21:47:40 $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultStep.java

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$Id: XPathReader.java,v 1.32 2006/04/07 23:47:37 elharo Exp $

*/

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*/opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
or/jaxen/saxpath/base/XPathReader.java

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2006/11/30 18:49:27 elharo Exp $

$Revision: 1.14 $

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jar/org/jaxen/expr/DefaultMultiplyExpr.java

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jar/org/jaxen/function/BooleanFunction.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/LocationPathPattern.java,v 1.15
2006/02/05 21:47:42 elharo Exp $
* $Revision: 1.15 $
* $Date: 2006/02/05 21:47:42 $
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* $Id: LocationPathPattern.java,v 1.15 2006/02/05 21:47:42 elharo Exp $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/pattern/LocationPathPattern.java
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* $Date: 2006/06/03 20:47:22 $  
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* $Id: SubstringBeforeFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/function/SubstringBeforeFunction.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingAxisIterator.java,v 1.11
* 2006/11/13 22:10:09 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/11/13 22:10:09 $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/iter/IterableAttributeAxis.java
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* *
* $Id: DefaultRelationalExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
*/

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultRelationalExpr.java
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(/

$Id: DefaultNameStep.java,v 1.53 2007/04/17 01:26:35 bewins Exp $

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* $Id: NamespaceUriFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp $
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  jar/org/jaxen/function/NamespaceUriFunction.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/Operator.java,v 1.5 2006/02/05
  21:47:42 elharo Exp $
* $Revision: 1.5 $
* $Date: 2006/02/05 21:47:42 $
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  2006/06/03 20:47:22 elharo Exp $
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* $Id: DefaultProcessingInstructionNodeStep.java,v 1.18 2007/01/06 12:21:12 elharo Exp $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/FilterExpr.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/javabeans/JavaBeanXPath.java,v 1.6 2006/06/03
  20:36:00 elharo Exp $
* $Revision: 1.6 $
* $Date: 2006/06/03 20:36:00 $
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* $Id: CommentNodeStep.java,v 1.6 2006/11/08 15:42:39 elharo Exp $
*/

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/CommentNodeStep.java
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 $Id: IdFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp $
 */

Found in path(s):
/opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/IdFunction.java
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 * $Id: CountFunction.java,v 1.14 2006/02/05 21:47:41 elharo Exp $
 */
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* $Id: Step.java,v 1.13 2006/12/10 15:32:14 elharo Exp $
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jar/orgjaxenexprStep.java
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* $Id: DefaultMultiplicativeExpr.java,v 1.9 2006/02/05 21:47:40 elharo Exp $
*/

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultMultiplicativeExpr.java

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* $Id: SAXPathEventSource.java,v 1.5 2006/02/05 21:47:42 elharo Exp $
*/

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/saxpath/SAXPathEventSource.java
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 * 21:47:42 elharo Exp $
 * $Revision: 1.8 $
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* $Id: NamespaceContext.java,v 1.10 2006/07/03 11:58:06 elharo Exp $
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* $Id: NamespaceNode.java,v 1.25 2006/07/03 11:14:05 elharo Exp $
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2006/02/05 21:47:41 elharo Exp $
 * $Revision: 1.11 $
 * $Date: 2006/02/05 21:47:41 $
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* $Id: PositionFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/PositionFunction.java
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/Expr.java

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jar/org/jaxen/expr/iter/IterableChildAxis.java
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultCommentNodeStep.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/PatternParser.java,v 1.18 2006/02/05
  21:47:42 elharo Exp $
* $Revision: 1.18 $
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* $Id: IterableAncestorOrSelfAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp $
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* $Id: TranslateFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
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/ /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/function/TranslateFunction.java
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18:49:26 elharo Exp $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultOrExpr.java

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$Id: DocumentFunction.java,v 1.6 2006/02/05 21:47:42 elharo Exp $

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/opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/xslt/DocumentFunction.java

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/util/AncestorAxisIterator.java

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* $Id: LocaleFunctionSupport.java,v 1.10 2006/02/05 21:47:42 elharo Exp $ */

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/ext/LocaleFunctionSupport.java
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* $Id: NameFunction.java,v 1.11 2006/02/05 21:47:41 elharo Exp$
* /

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  jar/org/jaxen/function/NameFunction.java
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/*
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/PrecedingSiblingAxisIterator.java,v 1.16
  2006/11/13 22:10:09 elharo Exp $
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* jar/org/jaxen/util/PrecedingSiblingAxisIterator.java
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21:47:41 elharo Exp $
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* $Id: UnaryExpr.java,v 1.7 2006/11/08 19:06:30 elharo Exp $
*/

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/UnaryExpr.java
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 * $Revision: 1.11 $
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SLd: UpperFunction.java,v 1.11 2006/02/05 21:47:42 elharo Exp
*/

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jar/org/jaxen/function/ext/UpperFunction.java

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* $Id: IterableAncestorAxis.java,v 1.7 2006/06/03 20:50:12 elharo Exp$
* /

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/expr/iter/IterableAncestorAxis.java
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11:07:25 elharo Exp$
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* $Date: 2006/07/16 11:07:25$
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* $Id: DOMXPath.java,v 1.10 2006/06/03 20:44:16 elharo Exp $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/dom/DOMXPath.java
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* $Id: NumberExpr.java,v 1.8 2006/11/08 17:17:32 elharo Exp $
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* jar/org/jaxen/expr/NumberExpr.java
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  jar/org/jaxen/expr/DefaultAdditiveExpr.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/saxpath/base/Token.java,v 1.5 2006/02/05
  21:47:42 elharo Exp $
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  21:47:41 elharo Exp $
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Found in path(s):

```
* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/function/StartsWithFunction.java
```

No license file was found, but licenses were detected in source scan.

```
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 */
```

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*/
```

```
/**
 */
```

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* $ID: DEFAULTPATHEXPR.JAVA,V 1.16 2006/11/30 18:49:26 ELHARO EXP $
* /

FOUND IN PATH(S):
* /OPT/COLA/PERMITS/1001068705_1607110532.46/0/JAXEN-1-1-1-PATCHED-SHANI-1-4-17-SOURCES-JAR/ORG/JAXEN/EXPR/DEFAULTPATHEXPR.JAVA

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* $REVISION: 1.4 $
* $DATE: 2006/11/09 16:39:19 $
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* $Id: SingletonList.java,v 1.4 2006/11/09 16:39:19 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/util/SingletonList.java
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/*
$Id: XPath.java,v 1.13 2007/05/02 15:00:13 elharo Exp $
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jar/org/jaxen/XPath.java
No license file was found, but licenses were detected in source scan.

/**
 * $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/UnionPattern.java,v 1.8 2006/02/05
21:47:42 elharo Exp $
 * $Revision: 1.8 $
 * $Date: 2006/02/05 21:47:42 $
 *
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* $Id: UnionPattern.java,v 1.8 2006/02/05 21:47:42 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/pattern/UnionPattern.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/LocationPath.java,v 1.9 2006/11/08
  17:02:21 elharo Exp $
* $Revision: 1.9 $
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* $Id: LocationPath.java,v 1.9 2006/11/08 17:02:21 elharo Exp $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/LocationPath.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/SelfAxisIterator.java,v 1.10 2007/05/02
  14:33:29 elharo Exp $
* $Revision: 1.10 $
* $Date: 2007/05/02 14:33:29 $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/util/SelfAxisIterator.java
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* 2006/11/30 18:49:27 elharo Exp $
* $Revision: 1.15 $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultLessThanExpr.java
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  2006/06/03 20:19:26 elharo Exp $
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* $Id: SimpleNamespaceContext.java,v 1.18 2006/06/03 20:19:26 elharo Exp $
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  jar/org/jaxen/SimpleNamespaceContext.java
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$Id: DefaultXPathExpr.java,v 1.9 2006/06/03 20:52:26 elharo Exp $

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/opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultXPathExpr.java

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* $Id: NamespaceTest.java,v 1.6 2006/02/05 21:47:42 elharo Exp $
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  */opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/pattern/NamespaceTest.java
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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/JaxenException.java,v 1.17 2006/06/03
  20:27:21 elharo Exp $
* $Revision: 1.17 $
* $Date: 2006/06/03 20:27:21 $
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$Id: JaxenException.java,v 1.17 2006/06/03 20:27:21 elharo Exp $

Found in path(s):
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/*
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 * $Date: 2006/11/13 22:38:17 $
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Found in path(s):
* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/PredicateSet.java

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*/
1.7 2006/06/03 20:47:22 elharo Exp $
* $Revision: 1.7 $
* $Date: 2006/06/03 20:47:22 $
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$Id: IterableFollowingSiblingAxis.java,v 1.7 2006/06/03 20:47:22 elharo Exp $

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java
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* $Revision: 1.17 $
* $Date: 2006/11/09 16:07:36 $
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* $Id: DefaultXPathFactory.java,v 1.17 2006/11/09 16:07:36 elharo Exp$
* /

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/DefaultXPathFactory.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/NameStep.java,v 1.5 2006/11/08 17:10:02
elharo Exp$
* $Revision: 1.5$
* $Date: 2006/11/08 17:10:02$
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* $Id: NameStep.java,v 1.5 2006/11/08 17:10:02 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
jar/org/jaxen/expr/NameStep.java
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18:49:27 elharo Exp $
* $Revision: 1.16 $
* $Date: 2006/11/30 18:49:27 $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1.1-1-patched-shani-1-4-17-sources-
* jar/org/jaxen/expr/DefaultUnaryExpr.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/pattern/NodeTypeTest.java,v 1.8 2006/02/05
* 21:47:42 elharo Exp $
* $Revision: 1.8 $
* $Date: 2006/02/05 21:47:42 $
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*$Id: NodeTypeTest.java,v 1.8 2006/02/05 21:47:42 elharo Exp $ */

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/opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources.jar/org/jaxen/pattern/NodeTypeTest.java
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* $Id: UnresolvableException.java,v 1.7 2006/06/03 20:21:05 elharo Exp $
* */

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/expr/DefaultArithExpr.java
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2006/11/30 18:49:27 elharo Exp $
 * $Revision: 1.18 $
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  21:47:41 elharo Exp $
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SLD: NotFunction.java,v 1.9 2006/02/05 21:47:41 elharo Exp $
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$Id: LangFunction.java,v 1.13 2006/02/05 21:47:41 elharo Exp$

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* $Id: XPathFactory.java,v 1.13 2007/05/02 14:32:38 elharo Exp $
*/

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* $Id: DescendantOrSelfAxisIterator.java,v 1.11 2006/11/09 18:20:12 elharo Exp $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/function/ext/EndsWithFunction.java

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/*
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/util/FollowingSiblingAxisIterator.java,v 1.11
2006/11/09 18:20:12 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/11/09 18:20:12 $
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/ *
* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/FalseFunction.java,v 1.11 2006/02/05
21:47:41 elharo Exp $
* $Revision: 1.11 $
* $Date: 2006/02/05 21:47:41 $
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* $Id: DefaultEqualityExpr.java,v 1.14 2006/02/05 21:47:40 elharo Exp $
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  * $Id: XPathSyntaxException.java,v 1.12 2006/06/03 20:26:36 elharo Exp $
  */

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  */opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* $Id: BinaryExpr.java,v 1.8 2006/11/09 16:21:04 elharo Exp $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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 * $Id: LastFunction.java,v 1.10 2006/02/05 21:47:41 elharo Exp$
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1.1-patched-shani-1-4-17-sources.jar/org/jaxen/function/LastFunction.java

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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/expr/AllNodeStep.java,v 1.6 2006/11/08 
15:41:05 elharo Exp $ 
* $Revision: 1.6 $ 
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*$Id: UnsupportedAxisException.java,v 1.11 2006/06/03 20:26:02 elharo Exp $
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* $Id: AdditiveExpr.java,v 1.6 2006/11/09 16:21:05 elharo Exp $
*/

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* $Id: DefaultLogicalExpr.java,v 1.8 2006/02/05 21:47:40 elharo Exp$
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultAllNodeStep.java
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*
* $Id: DefaultBinaryExpr.java,v 1.10 2007/01/05 18:25:43 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultBinaryExpr.java
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* $Id: Navigator.java,v 1.30 2006/06/03 20:07:19 elharo Exp $
*/

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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/Navigator.java
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* $Id: Predicate.java,v 1.14 2007/05/02 14:27:46 elharo Exp $
*/

Found in path(s):
* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/Predicate.java
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  * $Id: XPathSyntaxException.java,v 1.10 2006/06/03 20:29:30 elharo Exp $
  */

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   * /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
     jar/org/jaxen/saxpath/XPathSyntaxException.java
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* $Header: /home/projects/jaxen/scm/jaxen/src/java/main/org/jaxen/function/ConcatFunction.java,v 1.9 2006/02/05
  21:47:41 elharo Exp $
* $Revision: 1.9 $
* $Date: 2006/02/05 21:47:41 $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-
  jar/org/jaxen/expr/DefaultGreaterThanExpr.java

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*$Id: FunctionContext.java,v 1.10 2006/02/05 21:47:41 elharo Exp $
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* /opt/cola/permits/1001068705_1607110532.46/0/jaxen-1-1-1-patched-shani-1-4-17-sources-jar/org/jaxen/FunctionContext.java

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$Id: ContextSupport.java,v 1.13 2006/06/03 20:06:06 elharo Exp $
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* $Id: DefaultTruthExpr.java,v 1.10 2006/02/05 21:47:40 elharo Exp $
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jar/org/jboss/jca/common/spi/annotations/repository/AnnotationScannerFactory.java
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A `WebApplicationContext` that can be used to bootstrap itself from a contained `ServletWebServerFactory` bean.

This context will create, initialize and run an `WebServer` by searching for a single `ServletWebServerFactory` bean within the `ApplicationContext` itself. The `ServletWebServerFactory` is free to use standard Spring concepts (such as dependency injection, lifecycle callbacks and property placeholder variables).

In addition, any `Servlet` or `Filter` beans defined in the context will be automatically registered with the web server. In the case of a single Servlet bean, the `/` mapping will be used. If multiple Servlet beans are found then the lowercase bean name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').

For more advanced configuration, the context can instead define beans that implement the `ServletContextInitializer` interface (most often `ServletRegistrationBean`s and/or `FilterRegistrationBean`s). To prevent double registration, the use of `ServletContextInitializer` beans will disable automatic Servlet and Filter bean registration.

Although this context can be used directly, most developers should consider using the `AnnotationConfigServletWebServerApplicationContext` or `XmlServletWebServerApplicationContext` variants.

* @author Phillip Webb
  * @author Dave Syer
* @see AnnotationConfigServletWebServerApplicationContext
* @see XmlServletWebServerApplicationContext
* @see ServletWebServerFactory
*/

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1.2890 jsch 0.1.38

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* /opt/ws_local/PERMITS_SQL/1072989705_1595248346.22/0/netty-resolver-4-1-39-final-sources-jar/io/netty/resolver/AddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1072989705_1595248346.22/0/netty-resolver-4-1-39-final-sources-jar/io/netty/resolver/package-info.java
* /opt/ws_local/PERMITS_SQL/1072989705_1595248346.22/0/netty-resolver-4-1-39-final-sources-jar/io/netty/resolver/SimpleNameResolver.java
* /opt/ws_local/PERMITS_SQL/1072989705_1595248346.22/0/netty-resolver-4-1-39-final-sources-jar/io/netty/resolver/NameResolver.java
* /opt/ws_local/PERMITS_SQL/1072989705_1595248346.22/0/netty-resolver-4-1-39-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
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* /opt/ws_local/PERMITS_SQL/1072989705_1595248346.22/0/netty-resolver-4-1-39-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/ws_local/PERMITS_SQL/1072989705_1595248346.22/0/netty-resolver-4-1-39-final-sources-jar/io/netty/resolver/HostsFileEntries.java

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  * /opt/ws_local/PERMITS_SQL/1072989705_1595248346.22/0/netty-resolver-4-1-39-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

1.2892 bcmail 1.36.0

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clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5:ff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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1.2897 ding-libs 0.1.1-32.el7

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    analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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    analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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